

# Harmonized Tariff Schedule of the United States (2004)

Annotated for Statistical Reporting Purposes

## SECTION XVI

### MACHINERY AND MECHANICAL APPLIANCES; ELECTRICAL EQUIPMENT; PARTS THEREOF; SOUND RECORDERS AND REPRODUCERS, TELEVISION IMAGE AND SOUND RECORDERS AND REPRODUCERS, AND PARTS AND ACCESSORIES OF SUCH ARTICLES

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#### Notes

1. This section does not cover:
  - (a) Transmission, conveyor or elevator belts or belting, of plastics of chapter 39, or of vulcanized rubber (heading 4010); or other articles of a kind used in machinery or mechanical or electrical appliances or for other technical uses, of vulcanized rubber other than hard rubber (heading 4016);
  - (b) Articles of leather or of composition leather (heading 4204) or of furskin (heading 4303), of a kind used in machinery or mechanical appliances or for other technical uses;
  - (c) Bobbins, spools, cops, cones, cores, reels or similar supports, of any material (for example, chapter 39, 40, 44 or 48 or section XV);
  - (d) Perforated cards for Jacquard or similar machines (for example, chapter 39 or 48 or section XV);
  - (e) Transmission or conveyor belts or belting of textile material (heading 5910) or other articles of textile material for technical uses (heading 5911);
  - (f) Precious or semiprecious stones (natural, synthetic or reconstructed) of headings 7102 to 7104, or articles wholly of such stones of heading 7116, except unmounted worked sapphires and diamonds for styli (heading 8522);
  - (g) Parts of general use, as defined in note 2 to section XV, of base metal (section XV), or similar goods of plastics (chapter 39);
  - (h) Drill pipe (heading 7304);
  - (ij) Endless belts of metal wire or strip (section XV);
  - (k) Articles of chapter 82 or 83;
  - (l) Articles of section XVII;
  - (m) Articles of chapter 90;
  - (n) Clocks, watches or other articles of chapter 91;
  - (o) Interchangeable tools of heading 8207 or brushes of a kind used as parts of machines (heading 9603); similar interchangeable tools are to be classified according to the constituent material of their working part (for example, in chapter 40, 42, 43, 45 or 59 or heading 6804 or 6909);
  - (p) Articles of chapter 95; or
  - (q) Typewriter or similar ribbons, whether or not on spools or in cartridges (classified according to their constituent material, or in heading 9612 if inked or otherwise prepared for giving impressions).
2. Subject to note 1 to this section, note 1 to chapter 84 and to note 1 to chapter 85, parts of machines (not being parts of the articles of heading 8484, 8544, 8545, 8546 or 8547) are to be classified according to the following rules:
  - (a) Parts which are goods included in any of the headings of chapter 84 or 85 (other than headings 8409, 8431, 8448, 8466, 8473, 8485, 8503, 8522, 8529, 8538 and 8548) are in all cases to be classified in their respective headings;
  - (b) Other parts, if suitable for use solely or principally with a particular kind of machine, or with a number of machines of the same heading (including a machine of heading 8479 or 8543) are to be classified with the machines of that kind or in heading 8409, 8431, 8448, 8466, 8473, 8503, 8522, 8529 or 8538 as appropriate. However, parts which are equally suitable for use principally with the goods of headings 8517 and 8525 to 8528 are to be classified in heading 8517;
  - (c) All other parts are to be classified in heading 8409, 8431, 8448, 8466, 8473, 8503, 8522, 8529 or 8538 as appropriate or, failing that, in heading 8485 or 8548.

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## Notes (con.)

3. Unless the context otherwise requires, composite machines consisting of two or more machines fitted together to form a whole and other machines designed for the purpose of performing two or more complementary or alternative functions are to be classified as if consisting only of that component or as being that machine which performs the principal function.
4. Where a machine (including a combination of machines) consists of individual components (whether separate or interconnected by piping, by transmission devices, by electric cables or by other devices) intended to contribute together to a clearly defined function covered by one of the headings in chapter 84 or chapter 85, then the whole falls to be classified in the heading appropriate to that function.
5. For the purposes of these notes, the expression "machine" means any machine, machinery, plant, equipment, apparatus or appliance cited in the headings of chapter 84 or 85.

## Additional U.S. Note

1. For the purposes of this section, the term "printed circuit assembly" means goods consisting of one or more printed circuits of heading 8534 with one or more active elements assembled thereon, with or without passive elements. For the purposes of this note, "active elements" means diodes, transistors and similar semiconductor devices, whether or not photosensitive, of heading 8541, and integrated circuits and microassemblies of heading 8542.

## Statistical Note

1. Provisions for semiconductor manufacturing and testing machines and apparatus cover products for the growth and processing of semiconductor materials, such as silicon and gallium arsenide, the processing of such materials into semiconductor devices and the testing of such devices (in general the testing equipment, as well as some of the processing equipment, is classified in chapter 90). More specifically the goods include the following:
  - (a) Wafer manufacturing equipment:
    - (i) Crystal growers & pullers - used to produce extremely pure monocrystalline semiconductor boules from which wafers can be sliced. Most common methods employed in these crystal growers and pullers are the Czochralski and float zone methods.
    - (ii) Wafer preparation equipment:
      - (A) Crystal grinders - used to grind the crystal boule to precise diameter required for wafers and to grind the flats on the boule to indicate the conductivity type and resistivity of the crystal.
      - (B) Wafer slicing saws - used to slice wafers from a boule of monocrystalline semiconductor material.
      - (C) Wafer grinders, lappers and polishers - used to prepare the semiconductor wafer for the fabrication process. This involves bringing the wafer within dimensional tolerances. Especially critical is the flatness of its surface.
  - (b) Mask fabrication and repair equipment -
    - (i) Fabrication equipment - used to transfer design patterns to a mask or reticle, this equipment generally utilizes optical, electron beam or X-rays to write circuit patterns on photoresist coated substrates. After development, these substrates become the mask or reticle for wafer fabrication.
    - (ii) Repair equipment - this equipment generally utilizes focused ion beams or laser beams. They are used directly on the mask or reticle to remove chrome.
  - (c) Wafer fabrication equipment:
    - (i) Film formation equipment - used to apply or produce various films on the surface of the wafer during the fabrication process. These films serve as conductors, insulators and semiconductors on the finished device. They may include oxides and nitrides of the substrate surface, metals, and epitaxial layers. The processes and equipments listed below are not necessarily limited to the generation of a particular type of film.
      - (A) Oxidation furnaces - used to form a "film" of oxide on the wafer. The oxide is formed by the chemical reaction of the top molecular layers of the wafer with the applied oxygen or steam under heat.
      - (B) Chemical Vapor Deposition (CVD) equipment - used to deposit various types of films which are obtained by combining the appropriate gases in a reactant chamber at elevated temperatures. This constitutes a thermochemical vapor-phase reaction. Operations may take place at atmospheric or low pressure (LPCVD) and may use plasma enhancement (PECVD).

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## Statistical Note (con.)

- (C) Physical Vapor Deposition (PVD) equipment - used to deposit various types of films which are obtained by vaporizing a solid.
  - (1) Evaporation equipment - in which the film is generated by heating the source material.
  - (2) Sputtering equipment - in which the film is generated by bombarding the source material (target) with ions.
- (D) Molecular Beam Epitaxy (MBE) equipment - used to grow epitaxial layers on a heated monocrystalline substrate in an ultrahigh vacuum using beams of molecules. The process is similar to PVD.
- (ii) Doping equipment - which is used to introduce dopants into the wafer surface in order to modify the conductivity or other characteristics of a semiconductor layer:
  - (A) Thermal diffusion equipment - in which the dopants introduced into the surface of the wafer by the application of gases under high temperatures.
  - (B) Ion Implantation - in which the dopants are "driven" into the crystal lattice structure of the surface of the wafer in the form a beam of accelerated ions.
  - (C) Annealing furnaces - which are used to repair the crystal lattice structures of the wafer damaged by ion implantation.
- (iii) Etching and stripping equipment - used for etching or cleaning surfaces of the wafers.
  - (A) Wet etching equipment - in which chemical etching materials are applied by spraying or immersion. Spray etchers provide more uniform results than bath etchers, since they perform the operation on one wafer at a time.
  - (B) Dry plasma etching - in which etching materials are presented as gases within a plasma energy field, providing an anisotropic etch profile.
  - (C) Ion beam milling equipment - in which ionized gas atoms are accelerated toward the wafer surface. The impact results in the top layer being physically removed from the surface.
  - (D) Strippers or ashers - using techniques similar to etching this apparatus removes the spent photoresist from the surface of the wafer after it has served its purpose as a "stencil". This equipment is also used for removal of nitrides, oxides, and polysilicon, with an isotropic etch profile.
- (iv) Lithography equipment - used to transfer the circuit designs to the photoresist coated surface of the semiconductor wafer.
  - (A) Equipment for coating wafers with photoresist - these include the photoresist spinners which are used to apply liquid photoresist evenly over the surface of the wafer.
  - (B) Equipment for exposing the photoresist coated wafer with the circuit design (or a part thereof):
    - (1) Using a mask or reticle and exposing the photoresist to light (generally ultraviolet) or, in some instances, X-rays:
      - (a) Contact printers - where the mask or reticle is in contact with the wafer during exposure.
      - (b) Proximity aligners - similar to contact aligners except actual contact does not take place between the mask or reticle and the wafer.
      - (c) Scanning aligners - which use projection techniques to expose a continuously moving slit across the mask and wafer.
      - (d) Step and repeat aligners - which use projection techniques to expose the wafer a portion at a time. Exposure can be by reduction from the mask to the wafer or 1:1. Enhancements include the use of an excimer laser.
    - (2) Direct write on wafer equipment - these apparatus operate with no mask or reticle. They use a computer controlled "writing beam" (such as an electron beam (E-beam), ion beam or laser) to "draw" the circuit design directly on the photoresist coated wafer.
  - (C) Equipment for developing exposed wafers - these include chemical baths similar to those used in photographic laboratory applications

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### (d) Assembly equipment

- (i) Dicing equipment - these include sawing machines and scribing machines (including laser scribers) and dicing accessories such as wafer breaking equipment.
- (ii) Die bonding equipment - which installs the die to the package by soldering or gluing
- (iii) Wire bonding equipment - used for attaching thin wires or tapes (usually of gold, aluminum or copper) from the die bonding pads to the corresponding pads on the package.
- (iv) Packaging equipment - which are used to encapsulate or package a semiconductor device. They include sealing furnaces, lid welders, plastic encapsulation presses, lead trim and form equipment, package deflashers, and tin dip and solder plate equipment.

### (e) Testing and inspection equipment

- (i) Optical inspection equipment - These include equipment that "examines" portions of the wafer surface and compares them either to a standard pattern or to other portions of the wafer surface.
- (ii) Electrical testing equipment - These include computer controlled systems that test the functions and electrical specifications of semiconductor devices through the application and detection of electrical signals or patterns. Testing is performed on both unencapsulated dice and packaged integrated circuits.

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## CHAPTER 84

### NUCLEAR REACTORS, BOILERS, MACHINERY AND MECHANICAL APPLIANCES; PARTS THEREOF

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#### Notes

1. This chapter does not cover:
  - (a) Millstones, grindstones or other articles of chapter 68;
  - (b) Machinery or appliances (for example, pumps) of ceramic material and ceramic parts of machinery or appliances of any material (chapter 69);
  - (c) Laboratory glassware (heading 7017); machinery, appliances or other articles for technical uses or parts thereof, of glass (heading 7019 or 7020);
  - (d) Articles of heading 7321 or 7322 or similar articles of other base metals (chapters 74 to 76 or 78 to 81);
  - (e) Electromechanical domestic appliances of heading 8509; digital cameras of heading 8525; or
  - (f) Hand-operated mechanical floor sweepers, not motorized (heading 9603).
2. Subject to the operation of note 3 to section XVI, a machine or appliance which answers to a description in one or more of the headings 8401 to 8424 and at the same time to a description in one or more of the headings 8425 to 8480 is to be classified under the appropriate heading of the former group and not the latter.

Heading 8419 does not, however, cover:

  - (a) Germination plant, incubators or brooders (heading 8436);
  - (b) Grain-dampening machines (heading 8437);
  - (c) Diffusing apparatus for sugar juice extraction (heading 8438);
  - (d) Machinery for the heat treatment of textile yarns, fabrics or made up textile articles (heading 8451); or
  - (e) Machinery or plant, designed for mechanical operation, in which a change of temperature, even if necessary, is subsidiary.

Heading 8422 does not cover:

  - (a) Sewing machines for closing bags or similar containers (heading 8452); or
  - (b) Office machinery of heading 8472.

Heading 8424 does not cover:

Ink-jet printing machines (heading 8443 or 8471).
3. A machine tool for working any material which answers to a description in heading 8456 and at the same time to a description in heading 8457, 8458, 8459, 8460, 8461, 8464 or 8465 is to be classified in heading 8456.
4. Heading 8457 applies only to machine tools for working metal, other than lathes (including turning centers), which can carry out different types of machining operations either:
  - (a) by automatic tool change from a magazine or the like in conformity with a machining program (machining centers),
  - (b) by the automatic use, simultaneously or sequentially, of different unit heads working on a fixed position workpiece (unit construction machines, single station), or
  - (c) by the automatic transfer of the workpiece to different unit heads (multi-station transfer machines).

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## Notes (con.)

5. (A) For purposes of heading 8471, the expression "automatic data processing machines" means:
- (a) Digital machines, capable of (1) storing the processing program or programs and at least the data immediately necessary for execution of the program; (2) being freely programmed in accordance with the requirements of the user; (3) performing arithmetical computations specified by the user; and, (4) executing, without human intervention, a processing program which requires them to modify their execution, by logical decision during the processing run;
  - (b) Analog machines capable of simulating mathematical models and comprising at least: analog elements, control elements and programming elements;
  - (c) Hybrid machines consisting of either a digital machine with analog elements or an analog machine with digital elements.
- (B) Automatic data processing machines may be in the form of systems consisting of a variable number of separate units. Subject to paragraph (E) below, a unit is to be regarded as being a part of a complete system if it meets all the following conditions:
- (a) It is of a kind solely or principally used in an automatic data processing system;
  - (b) It is connectable to the central processing unit either directly or through one or more other units; and
  - (c) It is able to accept or deliver data in a form (codes or signals) which can be used by the system.
- (C) Separately presented units of an automatic data processing machine are to be classified in heading 8471.
- (D) Printers, keyboards, X-Y coordinate input devices and disk storage units which satisfy the conditions of paragraphs (B)(b) and (B)(c) above, are in all cases to be classified as units of heading 8471.
- (E) Machines performing a specific function other than data processing and incorporating or working in conjunction with an automatic data processing machine are to be classified in the headings appropriate to their respective functions or, failing that, in residual headings.
6. Heading 8482 applies, inter alia, to polished steel balls, the maximum and minimum diameters of which do not differ from the nominal diameter by more than 1 percent or by more than 0.05 mm, whichever is less. Other steel balls are to be classified under heading 7326.
7. A machine which is used for more than one purpose is, for the purposes of classification, to be treated as if its principal purpose were its sole purpose.
- Subject to note 2 to this chapter and note 3 to section XVI, a machine the principal purpose of which is not described in any heading or for which no one purpose is the principal purpose is, unless the context otherwise requires, to be classified in heading 8479. Heading 8479 also covers machines for making rope or cable (for example, stranding, twisting or cabling machines) from metal wire, textile yarn or any other material or from a combination of such materials.
8. For the purposes of heading 8470, the term "pocket-size" applies only to machines the dimensions of which do not exceed 170 mm x 100 mm x 45 mm.

## Subheading Notes

1. For the purposes of subheading 8471.49, the term "systems" means automatic data processing machines whose units satisfy the conditions laid down in note 5(B) to chapter 84 and which comprise at least a central processing unit, one input unit (for example, a keyboard or a scanner), and one output unit (for example, a visual display unit or a printer).
2. Subheading 8482.40 applies only to bearings with cylindrical rollers of a uniform diameter not exceeding 5 mm and having a length which is at least three times the diameter. The ends of the rollers may be rounded.

## Additional U.S. Notes

1. For the purposes of subheadings 8479.89.65 and 8479.89.98, the rate of duty "Free (C)" appearing in the column entitled "1-Special" applies only to the following articles: nonelectric starter motors; propeller regulators, nonelectric; servo-mechanisms, nonelectric; windshield wipers, nonelectric; hydropneumatic accumulators; pneumatic starters for turbojets, turbopropellers, or other gas turbines; toilet units specially designed for aircraft; mechanical actuators for thrust reversers.

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## Additional U.S. Notes (con.)

2. Subheadings 8473.30.30 and 8473.30.60 cover the following parts of printers of subheading 8471.60:
  - (a) Control or command assemblies, incorporating more than one of the following: printed circuit assembly, hard or flexible (floppy) disk drive, keyboard, user interface;
  - (b) Light source assemblies, incorporating more than one of the following: light emitting diode assembly, gas laser, mirror polygon assembly, base casting;
  - (c) Laser imaging assemblies, incorporating more than one of the following: photoreceptor belt or cylinder, toner receptacle unit, toner developing unit, charge/discharge units, cleaning unit;
  - (d) Image fixing assemblies, incorporating more than one of the following: fuser, pressure roller, heating element, release oil dispenser, cleaning unit, electrical control;
  - (e) Ink jet marking assemblies, incorporating more than one of the following: thermal print head, ink dispensing unit, nozzle and reservoir unit, ink heater;
  - (f) Maintenance/sealing assemblies, incorporating more than one of the following: vacuum unit, ink jet covering unit, sealing unit, purging unit;
  - (g) Paper handling assemblies, incorporating more than one of the following: paper transport belt, roller, print bar, carriage, gripper roller, paper storage unit, exit tray;
  - (h) Thermal transfer imaging assemblies, incorporating more than one of the following: thermal print head, cleaning unit, supply or take-up roller;
  - (i) Ionographic imaging assemblies, incorporating more than one of the following: ion generation and emitting unit, air assist unit, printed circuit assembly, charge receptor belt or cylinder, toner receptacle unit, toner distribution unit, developer receptacle and distribution unit, developing unit, charge/discharge unit, cleaning unit; or
  - (k) Combinations of the above specified assemblies.
3. For the purposes of subheadings 8466.10.40, 8466.20.40 and 8466.30.45, the expression "machines described in additional U.S. note 3 to chapter 84" means any of the following machines: machines of subheading 8456.10.60; machines of subheading 8456.91; machines of 8456.99.10; machines of subheading 8456.99.70; machines of subheading 8462.21.40 or 8462.29.40; machines of subheading 8464.10 for sawing monocrystal semiconductor boules into slices, or wafers into chips; machines of subheading 8464.20.10; machines of subheading 8464.90.10; machines of subheading 8464.90.60.

## Statistical Note

1. For the purposes of statistical reporting number 8472.90.9540, the term "note counters and note scanners" means document handling machines that count currency bills, bank notes, coupons, script or other value-based paper documents and to stack them in an organized fashion. Note counters and note scanners can both incorporate a sensor for detecting suspect (i.e., counterfeit) documents. Note scanners have additional sensors that enable the machines to distinguish documents by denomination.

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| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                                                                                             | Unit<br>of<br>Quantity | Rates of Duty      |                                              |     |
|------------------------|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------------|----------------------------------------------|-----|
|                        |                      |                                                                                                                                                                                 |                        | 1                  |                                              | 2   |
|                        |                      |                                                                                                                                                                                 |                        | General            | Special                                      |     |
| 8401                   |                      | Nuclear reactors; fuel elements (cartridges), non-irradiated, for nuclear reactors; machinery and apparatus for isotopic separation; parts thereof:                             |                        |                    |                                              |     |
| 8401.10.00             | 00                   | Nuclear reactors . . . . .                                                                                                                                                      | t . . . . .            | 3.3%               | Free (A,CA,CL,E,<br>IL,J,JO,MX,SG)           | 45% |
| 8401.20.00             | 00                   | Machinery and apparatus for isotopic separation, and parts thereof . . . . .                                                                                                    | t . . . . .            | 2.6%               | Free (A,CA,CL,E,<br>IL,J,JO,MX,SG)           | 35% |
| 8401.30.00             | 00                   | Fuel elements (cartridges), non-irradiated, and parts thereof . . . . .                                                                                                         | X . . . . .            | 3.3%               | Free (A,CA,CL,E,<br>IL,J,JO,MX,SG)           | 45% |
| 8401.40.00             | 00                   | Parts of nuclear reactors . . . . .                                                                                                                                             | t . . . . .            | 3.3%               | Free (A,CA,CL,E,<br>IL,J,JO,MX,SG)           | 45% |
| 8402                   |                      | Steam or other vapor generating boilers (other than central heating hot water boilers capable also of producing low pressure steam); super-heated water boilers; parts thereof: |                        |                    |                                              |     |
| 8402.11.00             | 00                   | Steam or other vapor generating boilers:<br>Watertube boilers with a steam production exceeding 45 t per hour . . . . .                                                         | t . . . . .            | 5.2% <sup>1/</sup> | Free (A,CA,CL,E,<br>IL,J,JO,MX)<br>3.9% (SG) | 45% |
| 8402.12.00             | 00                   | Watertube boilers with a steam production not exceeding 45 t per hour . . . . .                                                                                                 | t . . . . .            | 4.3%               | Free (A,CA,CL,E,<br>IL,J,JO,MX,SG)           | 45% |
| 8402.19.00             | 00                   | Other vapor generating boilers, including hybrid boilers . . . . .                                                                                                              | t . . . . .            | 5.2%               | Free (A,CA,CL,E,<br>IL,J,JO,MX)<br>3.9% (SG) | 45% |
| 8402.20.00             | 00                   | Super-heated water boilers . . . . .                                                                                                                                            | t . . . . .            | 3.3%               | Free (A,CA,CL,E,<br>IL,J,JO,MX,SG)           | 45% |
| 8402.90.00             |                      | Parts . . . . .                                                                                                                                                                 |                        | 4.3%               | Free (A,CA,CL,E,<br>IL,J,JO,MX,SG)           | 45% |
|                        | 10                   | Heat exchangers . . . . .                                                                                                                                                       | t                      |                    |                                              |     |
|                        | 90                   | Other . . . . .                                                                                                                                                                 | X                      |                    |                                              |     |
| 8403                   |                      | Central heating boilers (other than those of heading 8402) and parts thereof:                                                                                                   |                        |                    |                                              |     |
| 8403.10.00             | 00                   | Boilers . . . . .                                                                                                                                                               | No. . . . .            | Free               |                                              | 45% |
| 8403.90.00             | 00                   | Parts . . . . .                                                                                                                                                                 | X . . . . .            | Free               |                                              | 45% |

<sup>1/</sup> See subheading 9902.84.02.



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| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                                                                                                                    | Unit<br>of<br>Quantity | Rates of Duty |                                       |     |
|------------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------|---------------------------------------|-----|
|                        |                      |                                                                                                                                                                                                        |                        | 1             |                                       | 2   |
|                        |                      |                                                                                                                                                                                                        |                        | General       | Special                               |     |
| 8404                   |                      | Auxiliary plant for use with boilers of heading 8402 or 8403 (for example, economizers, super-heaters, soot removers, gas recoverers); condensers for steam or other vapor power units; parts thereof: |                        |               |                                       |     |
| 8404.10.00             |                      | Auxiliary plant for use with boilers of heading 8402 or 8403 .....                                                                                                                                     |                        | 3.5%          | Free (A,CA,CL,E,IL,J,JO,MX,SG)        | 45% |
|                        | 10                   | Economizers .....                                                                                                                                                                                      | t                      |               |                                       |     |
|                        | 50                   | Other .....                                                                                                                                                                                            | t                      |               |                                       |     |
| 8404.20.00             | 00                   | Condensers for steam or other vapor power units .....                                                                                                                                                  | t                      | 5.6%          | Free (A,CA,CL,E,IL,J,JO,MX) 4.2% (SG) | 45% |
| 8404.90.00             | 00                   | Parts .....                                                                                                                                                                                            | X                      | 3.5%          | Free (A,CA,CL,E,IL,J,JO,MX,SG)        | 45% |
| 8405                   |                      | Producer gas or water gas generators, with or without their purifiers; acetylene gas generators and similar water process gas generators, with or without their purifiers; parts thereof:              |                        |               |                                       |     |
| 8405.10.00             | 00                   | Producer gas or water gas generators, with or without their purifiers; acetylene gas generators and similar water process gas generators, with or without their purifiers .....                        | X                      | Free          |                                       | 45% |
| 8405.90.00             | 00                   | Parts .....                                                                                                                                                                                            | X                      | Free          |                                       | 45% |

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| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                                                                | Unit<br>of<br>Quantity | Rates of Duty |                                            |       |
|------------------------|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------|--------------------------------------------|-------|
|                        |                      |                                                                                                                                                    |                        | 1             |                                            | 2     |
|                        |                      |                                                                                                                                                    |                        | General       | Special                                    |       |
| 8406                   |                      | Steam turbines and other vapor turbines, and parts thereof:                                                                                        |                        |               |                                            |       |
| 8406.10                |                      | Turbines for marine propulsion:                                                                                                                    |                        |               |                                            |       |
| 8406.10.10             | 00                   | Steam turbines                                                                                                                                     | No.                    | 6.7%          | Free (A,CA,CL,E,<br>IL,J,JO,MX)<br>5% (SG) | 20%   |
| 8406.10.90             | 00                   | Other                                                                                                                                              | No.                    | Free          |                                            | 27.5% |
| 8406.81                |                      | Other turbines:                                                                                                                                    |                        |               |                                            |       |
| 8406.81.10             |                      | Of an output exceeding 40 MW:                                                                                                                      |                        |               |                                            |       |
|                        |                      | Steam turbines                                                                                                                                     |                        | 6.7%          | Free (A,CA,CL,E,<br>IL,J,JO,MX)<br>5% (SG) | 20%   |
|                        | 20                   | Stationary steam turbines, condensing type                                                                                                         | No.                    |               |                                            |       |
|                        | 70                   | Other                                                                                                                                              | No.                    |               |                                            |       |
| 8406.81.90             | 00                   | Other                                                                                                                                              | No.                    | Free          |                                            | 27.5% |
| 8406.82                |                      | Of an output not exceeding 40 MW:                                                                                                                  |                        |               |                                            |       |
| 8406.82.10             |                      | Steam turbines                                                                                                                                     |                        | 6.7%          | Free (A,CA,CL,E,<br>IL,J,JO,MX)<br>5% (SG) | 20%   |
|                        |                      | Stationary steam turbines, condensing type:                                                                                                        |                        |               |                                            |       |
|                        | 10                   | Not exceeding 7,460 kW                                                                                                                             | No.                    |               |                                            |       |
|                        | 20                   | Exceeding 7,460 kW                                                                                                                                 | No.                    |               |                                            |       |
|                        |                      | Other:                                                                                                                                             |                        |               |                                            |       |
|                        | 50                   | Not exceeding 7,460 kW                                                                                                                             | No.                    |               |                                            |       |
|                        | 70                   | Exceeding 7,460 kW                                                                                                                                 | No.                    |               |                                            |       |
| 8406.82.90             | 00                   | Other                                                                                                                                              | No.                    | Free          |                                            | 27.5% |
| 8406.90                |                      | Parts:                                                                                                                                             |                        |               |                                            |       |
|                        |                      | Of steam turbines:                                                                                                                                 |                        |               |                                            |       |
| 8406.90.20             | 00                   | Rotors, finished for final assembly                                                                                                                | No.                    | 6.7%          | Free (A,CA,CL,E,<br>IL,J,JO,MX)<br>5% (SG) | 20%   |
| 8406.90.30             | 00                   | Rotors, not further advanced than cleaned or machined for removal of fins, gates, sprues, and risers, or to permit location in finishing machinery | No.                    | 6.7%          | Free (A,CA,CL,E,<br>IL,J,JO,MX)<br>5% (SG) | 20%   |
| 8406.90.40             | 00                   | Blades, rotating or stationary                                                                                                                     | No.                    | 6.7%          | Free (A,CA,CL,E,<br>IL,J,JO,MX)<br>5% (SG) | 20%   |
| 8406.90.45             |                      | Other                                                                                                                                              |                        | 6.7%          | Free (A,CA,CL,E,<br>IL,J,JO,MX)<br>5% (SG) | 20%   |
|                        | 40                   | Rotors or spindles and rotor or spindle assemblies                                                                                                 | No.                    |               |                                            |       |
|                        | 80                   | Other                                                                                                                                              | X                      |               |                                            |       |
| 8406.90.50             | 00                   | Other:<br>Rotors, finished for final assembly                                                                                                      | No.                    | Free          |                                            | 27.5% |
| 8406.90.60             | 00                   | Rotors, not further advanced than cleaned or machined for removal of fins, gates, sprues, and risers, or to permit location in finishing machinery | No.                    | Free          |                                            | 27.5% |
| 8406.90.70             | 00                   | Blades, rotating or stationary                                                                                                                     | No.                    | Free          |                                            | 27.5% |
| 8406.90.75             | 00                   | Other                                                                                                                                              | X                      | Free          |                                            | 27.5% |

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| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                                                                 | Unit<br>of<br>Quantity | Rates of Duty |                                    |      |
|------------------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------|------------------------------------|------|
|                        |                      |                                                                                                                                                     |                        | 1             |                                    | 2    |
|                        |                      |                                                                                                                                                     |                        | General       | Special                            |      |
| 8407                   |                      | Spark-ignition reciprocating or rotary internal combustion piston engines:                                                                          |                        |               |                                    |      |
| 8407.10.00             |                      | Aircraft engines . . . . .                                                                                                                          |                        | Free          |                                    | 35%  |
|                        |                      | For use in civil aircraft <sup>1/</sup> :                                                                                                           |                        |               |                                    |      |
|                        |                      | New:                                                                                                                                                |                        |               |                                    |      |
|                        | 20                   | Less than 373 kW . . . . .                                                                                                                          | No.                    |               |                                    |      |
|                        | 40                   | 373 kW or over . . . . .                                                                                                                            | No.                    |               |                                    |      |
|                        | 60                   | Used or rebuilt . . . . .                                                                                                                           | No.                    |               |                                    |      |
|                        | 90                   | Other . . . . .                                                                                                                                     | No.                    |               |                                    |      |
| 8407.21.00             |                      | Marine propulsion engines:                                                                                                                          |                        |               |                                    |      |
|                        |                      | Outboard motors . . . . .                                                                                                                           |                        | Free          |                                    | 35%  |
|                        | 40                   | Less than 22.38 kW . . . . .                                                                                                                        | No.                    |               |                                    |      |
|                        | 80                   | Other . . . . .                                                                                                                                     | No.                    |               |                                    |      |
| 8407.29.00             |                      | Other . . . . .                                                                                                                                     |                        | Free          |                                    | 35%  |
|                        | 10                   | Inboard engines with outboard drive . . . . .                                                                                                       | No.                    |               |                                    |      |
|                        |                      | Inboard engines with inboard drive:                                                                                                                 |                        |               |                                    |      |
|                        | 20                   | Less than 746 W . . . . .                                                                                                                           | No.                    |               |                                    |      |
|                        | 30                   | 746 W or greater, but not exceeding<br>18.65 kW . . . . .                                                                                           | No.                    |               |                                    |      |
|                        | 40                   | Exceeding 18.65 kW . . . . .                                                                                                                        | No.                    |               |                                    |      |
| 8407.31.00             |                      | Reciprocating piston engines of a kind used for the propulsion of vehicles of chapter 87:                                                           |                        |               |                                    |      |
|                        |                      | Of a cylinder capacity not exceeding 50 cc . . . . .                                                                                                |                        | Free          |                                    | 35%  |
|                        | 40                   | Less than 746 W . . . . .                                                                                                                           | No.                    |               |                                    |      |
|                        | 80                   | Other . . . . .                                                                                                                                     | No.                    |               |                                    |      |
| 8407.32                |                      | Of a cylinder capacity exceeding 50 cc but not exceeding 250 cc:                                                                                    |                        |               |                                    |      |
| 8407.32.10             | 00                   | To be installed in tractors suitable for agricultural use . . . . .                                                                                 | No.                    | Free          |                                    | Free |
| 8407.32.20             |                      | To be installed in vehicles of subheading 8701.20, or heading 8702, 8703 or 8704 . . . . .                                                          |                        | Free          |                                    | 35%  |
|                        | 40                   | Used or rebuilt . . . . .                                                                                                                           | No.                    |               |                                    |      |
|                        | 80                   | Other . . . . .                                                                                                                                     | No.                    |               |                                    |      |
| 8407.32.90             |                      | Other . . . . .                                                                                                                                     |                        | Free          |                                    | 35%  |
|                        | 40                   | Not exceeding 18.65 kW . . . . .                                                                                                                    | No.                    |               |                                    |      |
|                        | 80                   | Exceeding 18.65 kW . . . . .                                                                                                                        | No.                    |               |                                    |      |
| 8407.33                |                      | Of a cylinder capacity exceeding 250 cc but not exceeding 1,000 cc:                                                                                 |                        |               |                                    |      |
| 8407.33.10             |                      | To be installed in tractors suitable for agricultural use . . . . .                                                                                 |                        | Free          |                                    | Free |
|                        | 30                   | Not exceeding 37.3 kW . . . . .                                                                                                                     | No.                    |               |                                    |      |
|                        |                      | Exceeding 37.3 kW:                                                                                                                                  |                        |               |                                    |      |
|                        | 60                   | Air-cooled . . . . .                                                                                                                                | No.                    |               |                                    |      |
|                        | 90                   | Other . . . . .                                                                                                                                     | No.                    |               |                                    |      |
| 8407.33.30             |                      | To be installed in vehicles of subheading 8701.20, or heading 8702, 8703 or 8704:                                                                   |                        |               |                                    |      |
|                        |                      | To be installed in vehicles specially designed for traveling on snow, golf carts, non-amphibious all-terrain vehicles and burden carriers . . . . . |                        | Free          |                                    | 35%  |
|                        | 40                   | Used or rebuilt . . . . .                                                                                                                           | No.                    |               |                                    |      |
|                        | 80                   | Other . . . . .                                                                                                                                     | No.                    |               |                                    |      |
| 8407.33.60             |                      | Other . . . . .                                                                                                                                     |                        | 2.5%          | Free (A,B,CA,CL, E,IL,J,JO,MX, SG) | 35%  |
|                        | 40                   | Used or rebuilt . . . . .                                                                                                                           | No.                    |               |                                    |      |
|                        | 80                   | Other . . . . .                                                                                                                                     | No.                    |               |                                    |      |
| 8407.33.90             |                      | Other . . . . .                                                                                                                                     |                        | Free          |                                    | 35%  |
|                        | 40                   | Not exceeding 18.65 kW . . . . .                                                                                                                    | No.                    |               |                                    |      |
|                        | 80                   | Exceeding 18.65 kW . . . . .                                                                                                                        | No.                    |               |                                    |      |

<sup>1/</sup> See General Note 6.

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Annotated for Statistical Reporting Purposes

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| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                              | Unit<br>of<br>Quantity | Rates of Duty |                                    |      |
|------------------------|----------------------|--------------------------------------------------------------------------------------------------|------------------------|---------------|------------------------------------|------|
|                        |                      |                                                                                                  |                        | 1             |                                    | 2    |
|                        |                      |                                                                                                  |                        | General       | Special                            |      |
| 8407<br>(con.)         |                      | Spark-ignition reciprocating or rotary internal combustion piston engines (con.):                |                        |               |                                    |      |
|                        |                      | Reciprocating piston engines of a kind used for the propulsion of vehicles of chapter 87 (con.): |                        |               |                                    |      |
| 8407.34                |                      | Of a cylinder capacity exceeding 1,000 cc:                                                       |                        |               |                                    |      |
|                        |                      | Of a cylinder capacity not exceeding 2,000 cc:                                                   |                        |               |                                    |      |
| 8407.34.05             |                      | To be installed in tractors                                                                      |                        |               |                                    |      |
|                        | 30                   | suitable for agricultural use . . . . .                                                          | No.                    | Free          |                                    | Free |
|                        |                      | Not exceeding 37.3 kW . . . . .                                                                  | No.                    |               |                                    |      |
|                        | 60                   | Exceeding 37.3 kW:                                                                               |                        |               |                                    |      |
|                        | 90                   | Air-cooled . . . . .                                                                             | No.                    |               |                                    |      |
|                        |                      | Other . . . . .                                                                                  | No.                    |               |                                    |      |
|                        |                      | To be installed in vehicles of subheading 8701.20, or heading 8702, 8703 or 8704:                |                        |               |                                    |      |
| 8407.34.14             | 00                   | Used or rebuilt . . . . .                                                                        | No. . . . .            | 2.5%          | Free (A,B,CA,CL, E,IL,J,JO,MX, SG) | 35%  |
| 8407.34.18             | 00                   | Other . . . . .                                                                                  | No. . . . .            | 2.5%          | Free (A,B,CA,CL, E,IL,J,JO,MX, SG) | 35%  |
| 8407.34.25             | 00                   | Other . . . . .                                                                                  | No. . . . .            | Free          |                                    | 35%  |
|                        |                      | Of a cylinder capacity exceeding 2,000 cc:                                                       |                        |               |                                    |      |
| 8407.34.35             |                      | To be installed in tractors suitable for agricultural use . . . . .                              |                        | Free          |                                    | Free |
|                        | 30                   | Not exceeding 37.3 kW . . . . .                                                                  | No.                    |               |                                    |      |
|                        | 60                   | Exceeding 37.3 kW:                                                                               |                        |               |                                    |      |
|                        | 90                   | Air-cooled . . . . .                                                                             | No.                    |               |                                    |      |
|                        |                      | Other . . . . .                                                                                  | No.                    |               |                                    |      |
|                        |                      | To be installed in vehicles of subheading 8701.20, or heading 8702, 8703 or 8704:                |                        |               |                                    |      |
| 8407.34.44             | 00                   | Used or rebuilt . . . . .                                                                        | No. . . . .            | 2.5%          | Free (A,B,CA,CL, E,IL,J,JO,MX, SG) | 35%  |
| 8407.34.48             | 00                   | Other . . . . .                                                                                  | No. . . . .            | 2.5%          | Free (A,B,CA,CL, E,IL,J,JO,MX, SG) | 35%  |
| 8407.34.55             | 00                   | Other . . . . .                                                                                  | No. . . . .            | Free          |                                    | 35%  |
| 8407.90                |                      | Other engines:                                                                                   |                        |               |                                    |      |
| 8407.90.10             |                      | To be installed in agricultural or horticultural machinery or equipment . . . . .                |                        | Free          |                                    | Free |
|                        |                      | Not exceeding 37.3 kW:                                                                           |                        |               |                                    |      |
|                        | 10                   | Less than 4,476 W . . . . .                                                                      | No.                    |               |                                    |      |
|                        | 20                   | Other . . . . .                                                                                  | No.                    |               |                                    |      |
|                        |                      | Other:                                                                                           |                        |               |                                    |      |
|                        | 60                   | Air-cooled . . . . .                                                                             | No.                    |               |                                    |      |
|                        | 80                   | Other . . . . .                                                                                  | No.                    |               |                                    |      |
| 8407.90.90             |                      | Other . . . . .                                                                                  |                        | Free          |                                    | 35%  |
|                        | 10                   | Gas (natural or LP) engines . . . . .                                                            | No.                    |               |                                    |      |
|                        |                      | Other:                                                                                           |                        |               |                                    |      |
|                        | 20                   | Less than 746 W . . . . .                                                                        | No.                    |               |                                    |      |
|                        | 40                   | 746 W or greater but less than 4,476 W . . . . .                                                 | No.                    |               |                                    |      |
|                        | 60                   | 4,476 W or greater but not exceeding 18.65 kW . . . . .                                          | No.                    |               |                                    |      |
|                        | 80                   | Exceeding 18.65 kW . . . . .                                                                     | No.                    |               |                                    |      |

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Annotated for Statistical Reporting Purposes

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| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                           | Unit<br>of<br>Quantity | Rates of Duty |                                           |      |
|------------------------|----------------------|-----------------------------------------------------------------------------------------------|------------------------|---------------|-------------------------------------------|------|
|                        |                      |                                                                                               |                        | 1             |                                           | 2    |
|                        |                      |                                                                                               |                        | General       | Special                                   |      |
| 8408                   |                      | Compression-ignition internal combustion piston engines<br>(diesel or semi-diesel engines):   |                        |               |                                           |      |
| 8408.10.00             |                      | Marine propulsion engines . . . . .                                                           |                        | 2.5%          | Free (A,CA,CL,E,<br>IL,J,JO,MX,SG)        | 35%  |
|                        | 05                   | Not exceeding 111.9 kW . . . . .                                                              | No.                    |               |                                           |      |
|                        | 15                   | Exceeding 111.9 kW but not exceeding 149.2 kW . . . . .                                       | No.                    |               |                                           |      |
|                        | 20                   | Exceeding 149.2 kW but not exceeding 223.8 kW . . . . .                                       | No.                    |               |                                           |      |
|                        | 30                   | Exceeding 223.8 kW but not exceeding 373 kW . . . . .                                         | No.                    |               |                                           |      |
|                        | 40                   | Exceeding 373 kW but not exceeding 746 kW . . . . .                                           | No.                    |               |                                           |      |
|                        | 50                   | Exceeding 746 kW . . . . .                                                                    | No.                    |               |                                           |      |
| 8408.20                |                      | Engines of a kind used for the propulsion of vehicles<br>of chapter 87:                       |                        |               |                                           |      |
| 8408.20.10             |                      | To be installed in tractors suitable for agricultural<br>use . . . . .                        |                        | Free          |                                           | Free |
|                        | 40                   | Not exceeding 37.3 kW . . . . .                                                               | No.                    |               |                                           |      |
|                        | 80                   | Exceeding 37.3 kW . . . . .                                                                   | No.                    |               |                                           |      |
| 8408.20.20             | 00                   | To be installed in vehicles of subheading 8701.20,<br>or heading 8702, 8703 or 8704 . . . . . | No.                    | 2.5%          | Free (A*,B,CA,CL,<br>E,IL,J,JO,MX,<br>SG) | 35%  |
| 8408.20.90             | 00                   | Other . . . . .                                                                               | No.                    | 2.5%          | Free (A*,CA,CL,E,<br>IL,J,JO,MX,SG)       | 35%  |
| 8408.90                |                      | Other engines:                                                                                |                        |               |                                           |      |
| 8408.90.10             |                      | To be installed in agricultural or horticultural<br>machinery or equipment . . . . .          |                        | Free          |                                           | Free |
|                        | 40                   | Not exceeding 37.3 kW . . . . .                                                               | No.                    |               |                                           |      |
|                        | 80                   | Exceeding 37.3 kW . . . . .                                                                   | No.                    |               |                                           |      |
| 8408.90.90             |                      | Other . . . . .                                                                               |                        | Free          |                                           | 35%  |
|                        | 10                   | Not exceeding 149.2 kW . . . . .                                                              | No.                    |               |                                           |      |
|                        | 20                   | Exceeding 149.2 kW but not exceeding<br>373 kW . . . . .                                      | No.                    |               |                                           |      |
|                        | 30                   | Exceeding 373 kW but not exceeding 746 kW . . . . .                                           | No.                    |               |                                           |      |
|                        | 40                   | Exceeding 746 kW but not exceeding<br>1,119 kW . . . . .                                      | No.                    |               |                                           |      |
|                        | 50                   | Exceeding 1,119 kW . . . . .                                                                  | No.                    |               |                                           |      |

# Harmonized Tariff Schedule of the United States (2004)

Annotated for Statistical Reporting Purposes

XVI  
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| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                                                                                       | Unit<br>of<br>Quantity | Rates of Duty |                                           |     |
|------------------------|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------|-------------------------------------------|-----|
|                        |                      |                                                                                                                                                                           |                        | 1             |                                           | 2   |
|                        |                      |                                                                                                                                                                           |                        | General       | Special                                   |     |
| 8409                   |                      | Parts suitable for use solely or principally with the engines of heading 8407 or 8408:                                                                                    |                        |               |                                           |     |
| 8409.10.00             |                      | For aircraft engines . . . . .                                                                                                                                            | kg                     | Free          |                                           | 35% |
|                        | 40                   | For use in civil aircraft <u>1/</u> . . . . .                                                                                                                             | kg                     |               |                                           |     |
|                        | 80                   | Other . . . . .                                                                                                                                                           | kg                     |               |                                           |     |
| 8409.91                |                      | Other:<br>Suitable for use solely or principally with spark-ignition internal combustion piston engines (including rotary engines):                                       |                        |               |                                           |     |
| 8409.91.10             |                      | Cast-iron parts, not advanced beyond cleaning, and machined only for the removal of fins, gates, sprues and risers or to permit location in finishing machinery . . . . . |                        | Free          |                                           | 10% |
|                        | 40                   | For vehicles of subheading 8701.20, or heading 8702, 8703 or 8704 . . . . .                                                                                               | kg                     |               |                                           |     |
|                        | 60                   | For marine propulsion engines . . . . .                                                                                                                                   | kg                     |               |                                           |     |
|                        | 80                   | Other . . . . .                                                                                                                                                           | kg                     |               |                                           |     |
| 8409.91.30             | 00                   | Other:<br>For vehicles of subheading 8701.20, or heading 8702, 8703 or 8704:<br>Aluminum cylinder heads . . . . .                                                         | No.<br>kg              | 2.5%          | Free (A,B,CA,CL,<br>E,IL,J,JO,MX,<br>SG)  | 35% |
| 8409.91.50             |                      | Other . . . . .                                                                                                                                                           |                        | 2.5%          | Free (A*,B,CA,CL,<br>E,IL,J,JO,MX,<br>SG) | 35% |
|                        | 10                   | Connecting rods . . . . .                                                                                                                                                 | No.<br>kg              |               |                                           |     |
|                        | 80                   | Other . . . . .                                                                                                                                                           | kg                     |               |                                           |     |
| 8409.91.92             |                      | For marine propulsion engines . . . . .                                                                                                                                   |                        | 2.5%          | Free (A,CA,CL,E,<br>IL,J,JO,MX,SG)        | 35% |
|                        | 10                   | Connecting rods . . . . .                                                                                                                                                 | No.<br>kg              |               |                                           |     |
|                        | 90                   | Other . . . . .                                                                                                                                                           | kg                     |               |                                           |     |
| 8409.91.99             |                      | Other . . . . .                                                                                                                                                           |                        | 2.5%          | Free (A*,CA,CL,E,<br>IL,J,JO,MX,SG)       | 35% |
|                        | 10                   | Connecting rods . . . . .                                                                                                                                                 | No.<br>kg              |               |                                           |     |
|                        | 90                   | Other . . . . .                                                                                                                                                           | kg                     |               |                                           |     |

1/ See General Note 6.

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Annotated for Statistical Reporting Purposes

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| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                                                                                       | Unit<br>of<br>Quantity | Rates of Duty |                                   |       |
|------------------------|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------|-----------------------------------|-------|
|                        |                      |                                                                                                                                                                           |                        | 1             |                                   | 2     |
|                        |                      |                                                                                                                                                                           |                        | General       | Special                           |       |
| 8409<br>(con.)         |                      | Parts suitable for use solely or principally with the engines of heading 8407 or 8408 (con.):                                                                             |                        |               |                                   |       |
| 8409.99                |                      | Other (con.):                                                                                                                                                             |                        |               |                                   |       |
| 8409.99.10             |                      | Other:                                                                                                                                                                    |                        |               |                                   |       |
|                        |                      | Cast-iron parts, not advanced beyond cleaning, and machined only for the removal of fins, gates, sprues and risers or to permit location in finishing machinery . . . . . |                        | Free          |                                   | 10%   |
|                        | 40                   | For vehicles of subheading 8701.20, or heading 8702, 8703 or 8704 . . . . .                                                                                               | kg                     |               |                                   |       |
|                        | 60                   | For marine propulsion engines . . . . .                                                                                                                                   | kg                     |               |                                   |       |
|                        | 80                   | Other . . . . .                                                                                                                                                           | kg                     |               |                                   |       |
| 8409.99.91             |                      | Other:                                                                                                                                                                    |                        |               |                                   |       |
|                        |                      | For vehicles of subheading 8701.20, or heading 8702, 8703 or 8704 . . . . .                                                                                               |                        | 2.5%          | Free (A*,B,CA,CL,E,IL,J,JO,MX,SG) | 35%   |
|                        | 10                   | Connecting rods . . . . .                                                                                                                                                 | No.                    |               |                                   |       |
|                        | 90                   | Other . . . . .                                                                                                                                                           | kg                     |               |                                   |       |
| 8409.99.92             |                      | For marine propulsion engines . . . . .                                                                                                                                   |                        | 2.5%          | Free (A,CA,CL,E,IL,J,JO,MX,SG)    | 35%   |
|                        | 10                   | Connecting rods . . . . .                                                                                                                                                 | No.                    |               |                                   |       |
|                        | 90                   | Other . . . . .                                                                                                                                                           | kg                     |               |                                   |       |
| 8409.99.99             |                      | Other . . . . .                                                                                                                                                           |                        | Free          |                                   | 35%   |
|                        | 10                   | Connecting rods . . . . .                                                                                                                                                 | No.                    |               |                                   |       |
|                        | 90                   | Other . . . . .                                                                                                                                                           | kg                     |               |                                   |       |
| 8410                   |                      | Hydraulic turbines, water wheels and regulators therefor; parts thereof:                                                                                                  |                        |               |                                   |       |
|                        |                      | Hydraulic turbines and water wheels:                                                                                                                                      |                        |               |                                   |       |
| 8410.11.00             | 00                   | Of a power not exceeding 1,000 kW . . . . .                                                                                                                               | No. . . . .            | 3.8%          | Free (A,CA,CL,E,IL,J,JO,MX,SG)    | 27.5% |
| 8410.12.00             | 00                   | Of a power exceeding 1,000 kW but not exceeding 10,000 kW . . . . .                                                                                                       | No. . . . .            | 3.8%          | Free (A,CA,CL,E,IL,J,JO,MX,SG)    | 27.5% |
| 8410.13.00             | 00                   | Of a power exceeding 10,000 kW . . . . .                                                                                                                                  | No. . . . .            | 3.8%          | Free (A,CA,CL,E,IL,J,JO,MX,SG)    | 27.5% |
| 8410.90.00             | 00                   | Parts, including regulators . . . . .                                                                                                                                     | X . . . . .            | 3.8%          | Free (A,CA,CL,E,IL,J,JO,MX,SG)    | 27.5% |

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| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                                                                             | Unit<br>of<br>Quantity | Rates of Duty |                                  |     |
|------------------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------|----------------------------------|-----|
|                        |                      |                                                                                                                                                                 |                        | 1             |                                  | 2   |
|                        |                      |                                                                                                                                                                 |                        | General       | Special                          |     |
| 8411                   |                      | Turbojets, turbopropellers and other gas turbines, and parts thereof:                                                                                           |                        |               |                                  |     |
|                        |                      | Turbojets:                                                                                                                                                      |                        |               |                                  |     |
| 8411.11                |                      | Of a thrust not exceeding 25 kN:                                                                                                                                |                        |               |                                  |     |
| 8411.11.40             | 00                   | Aircraft turbines                                                                                                                                               | No.                    | Free          |                                  | 35% |
| 8411.11.80             | 00                   | Other                                                                                                                                                           | No.                    | Free          |                                  | 35% |
| 8411.12                |                      | Of a thrust exceeding 25 kN:                                                                                                                                    |                        |               |                                  |     |
| 8411.12.40             | 00                   | Aircraft turbines                                                                                                                                               | No.                    | Free          |                                  | 35% |
| 8411.12.80             | 00                   | Other                                                                                                                                                           | No.                    | Free          |                                  | 35% |
|                        |                      | Turbopropellers:                                                                                                                                                |                        |               |                                  |     |
| 8411.21                |                      | Of a power not exceeding 1,100 kW:                                                                                                                              |                        |               |                                  |     |
| 8411.21.40             | 00                   | Aircraft turbines                                                                                                                                               | No.                    | Free          |                                  | 35% |
| 8411.21.80             | 00                   | Other                                                                                                                                                           | No.                    | Free          |                                  | 35% |
| 8411.22                |                      | Of a power exceeding 1,100 kW:                                                                                                                                  |                        |               |                                  |     |
| 8411.22.40             | 00                   | Aircraft turbines                                                                                                                                               | No.                    | Free          |                                  | 35% |
| 8411.22.80             | 00                   | Other                                                                                                                                                           | No.                    | Free          |                                  | 35% |
|                        |                      | Other gas turbines:                                                                                                                                             |                        |               |                                  |     |
| 8411.81                |                      | Of a power not exceeding 5,000 kW:                                                                                                                              |                        |               |                                  |     |
| 8411.81.40             | 00                   | Aircraft turbines                                                                                                                                               | No.                    | Free          |                                  | 35% |
| 8411.81.80             | 00                   | Other                                                                                                                                                           | No.                    | 2.5%          | Free (A,CA,CL,E,IL,J,JO,MX,SG)   | 35% |
| 8411.82                |                      | Of a power exceeding 5,000 kW:                                                                                                                                  |                        |               |                                  |     |
| 8411.82.40             | 00                   | Aircraft turbines                                                                                                                                               | No.                    | Free          |                                  | 35% |
| 8411.82.80             | 00                   | Other                                                                                                                                                           | No.                    | 2.5%          | Free (A,CA,CL,E,IL,J,JO,MX,SG)   | 35% |
|                        |                      | Parts:                                                                                                                                                          |                        |               |                                  |     |
| 8411.91                |                      | Of turbojets or turbopropellers:                                                                                                                                |                        |               |                                  |     |
| 8411.91.10             |                      | Cast-iron parts, not advanced beyond cleaning, and machined only for the removal of fins, gates, sprues and risers or to permit location in finishing machinery |                        | Free          |                                  | 10% |
|                        | 40                   | Parts of nonaircraft turbines                                                                                                                                   | kg                     |               |                                  |     |
|                        | 60                   | Parts of aircraft turbines:                                                                                                                                     |                        |               |                                  |     |
|                        | 90                   | For use in civil aircraft <u>1/</u>                                                                                                                             | kg                     |               |                                  |     |
|                        |                      | Other                                                                                                                                                           | kg                     |               |                                  |     |
| 8411.91.90             |                      | Other                                                                                                                                                           |                        | Free          |                                  | 35% |
|                        | 40                   | Parts of nonaircraft turbines                                                                                                                                   | X                      |               |                                  |     |
|                        | 80                   | Parts of aircraft turbines                                                                                                                                      | X                      |               |                                  |     |
| 8411.99                |                      | Other:                                                                                                                                                          |                        |               |                                  |     |
| 8411.99.10             |                      | Cast-iron parts, not advanced beyond cleaning, and machined only for the removal of fins, gates, sprues and risers or to permit location in finishing machinery |                        | Free          |                                  | 10% |
|                        | 10                   | Parts of nonaircraft gas turbines                                                                                                                               | X                      |               |                                  |     |
|                        | 40                   | Parts of aircraft gas turbines:                                                                                                                                 |                        |               |                                  |     |
|                        | 80                   | For use in civil aircraft <u>1/</u>                                                                                                                             | X                      |               |                                  |     |
|                        |                      | Other                                                                                                                                                           | X                      |               |                                  |     |
| 8411.99.90             |                      | Other                                                                                                                                                           |                        | 2.4%          | Free (A,C,CA,CL,E,IL,J,JO,MX,SG) | 35% |
|                        | 30                   | Parts of nonaircraft gas turbines:<br>Rotors or spindles and rotor or spindle assemblies                                                                        | No.                    |               |                                  |     |
|                        | 60                   | Other                                                                                                                                                           | X                      |               |                                  |     |
|                        | 90                   | Parts of aircraft gas turbines                                                                                                                                  | X                      |               |                                  |     |

1/ See General Note 6.



# Harmonized Tariff Schedule of the United States (2004)

Annotated for Statistical Reporting Purposes

XVI  
84-13

| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                  | Unit<br>of<br>Quantity | Rates of Duty |         |       |
|------------------------|----------------------|------------------------------------------------------|------------------------|---------------|---------|-------|
|                        |                      |                                                      |                        | 1             |         | 2     |
|                        |                      |                                                      |                        | General       | Special |       |
| 8412                   |                      | Other engines and motors, and parts thereof:         |                        |               |         |       |
| 8412.10.00             |                      | Reaction engines other than turbojets . . . . .      |                        | Free          |         | 35%   |
|                        | 10                   | Missile and rocket engines . . . . .                 | No.                    |               |         |       |
|                        | 90                   | Other . . . . .                                      | No.                    |               |         |       |
| 8412.21.00             |                      | Hydraulic power engines and motors:                  |                        |               |         |       |
|                        |                      | Linear acting (cylinders) . . . . .                  |                        | Free          |         | 27.5% |
|                        | 15                   | Tie-rod type . . . . .                               | No.                    |               |         |       |
|                        | 30                   | Weld fused type . . . . .                            | No.                    |               |         |       |
|                        |                      | Other:                                               |                        |               |         |       |
|                        | 45                   | Telescoping . . . . .                                | No.                    |               |         |       |
|                        | 60                   | Rodless . . . . .                                    | No.                    |               |         |       |
|                        | 75                   | Other . . . . .                                      | No.                    |               |         |       |
| 8412.29                |                      | Other:                                               |                        |               |         |       |
| 8412.29.40             | 00                   | Hydrojet engines for marine propulsion . . . . .     | No. . . . .            | Free          |         | 30%   |
| 8412.29.80             |                      | Other . . . . .                                      |                        | Free          |         | 27.5% |
|                        |                      | Unlimited rotary acting:                             |                        |               |         |       |
|                        | 15                   | Gear type . . . . .                                  | No.                    |               |         |       |
|                        | 30                   | Radial piston type . . . . .                         | No.                    |               |         |       |
|                        | 45                   | Axial piston type . . . . .                          | No.                    |               |         |       |
|                        | 60                   | Other . . . . .                                      | No.                    |               |         |       |
|                        | 75                   | Other . . . . .                                      | No.                    |               |         |       |
| 8412.31.00             |                      | Pneumatic power engines and motors:                  |                        |               |         |       |
|                        |                      | Linear acting (cylinders) . . . . .                  |                        | Free          |         | 27.5% |
|                        | 40                   | Tie-rod type . . . . .                               | No.                    |               |         |       |
|                        | 80                   | Other . . . . .                                      | No.                    |               |         |       |
| 8412.39.00             |                      | Other . . . . .                                      |                        | Free          |         | 27.5% |
|                        | 40                   | Unlimited rotary acting . . . . .                    | No.                    |               |         |       |
|                        | 80                   | Other . . . . .                                      | No.                    |               |         |       |
| 8412.80                |                      | Other engines and motors:                            |                        |               |         |       |
| 8412.80.10             | 00                   | Spring-operated and weight-operated motors . . . . . | No. . . . .            | Free          |         | 35%   |
| 8412.80.90             | 00                   | Other . . . . .                                      | X . . . . .            | Free          |         | 27.5% |
| 8412.90                |                      | Parts:                                               |                        |               |         |       |
| 8412.90.10             | 00                   | Of hydrojet engines for marine propulsion . . . . .  | X . . . . .            | Free          |         | 30%   |
| 8412.90.90             |                      | Other . . . . .                                      |                        | Free          |         | 27.5% |
|                        |                      | Of hydraulic power engines and motors:               |                        |               |         |       |
|                        | 05                   | Of linear acting engines and motors . . . . .        | X                      |               |         |       |
|                        | 15                   | Other . . . . .                                      | X                      |               |         |       |
|                        |                      | Of pneumatic power engines and motors:               |                        |               |         |       |
|                        | 25                   | Of linear acting engines and motors . . . . .        | X                      |               |         |       |
|                        | 35                   | Other . . . . .                                      | X                      |               |         |       |
|                        | 50                   | Of reaction engines other than turbojets . . . . .   | X                      |               |         |       |
|                        | 80                   | Other . . . . .                                      | X                      |               |         |       |

# Harmonized Tariff Schedule of the United States (2004)

Annotated for Statistical Reporting Purposes

XVI  
84-14

| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                   | Unit<br>of<br>Quantity | Rates of Duty |                                       |     |
|------------------------|----------------------|-------------------------------------------------------------------------------------------------------|------------------------|---------------|---------------------------------------|-----|
|                        |                      |                                                                                                       |                        | 1             |                                       | 2   |
|                        |                      |                                                                                                       |                        | General       | Special                               |     |
| 8413                   |                      | Pumps for liquids, whether or not fitted with a measuring device; liquid elevators; part thereof:     |                        |               |                                       |     |
|                        |                      | Pumps fitted or designed to be fitted with a measuring device:                                        |                        |               |                                       |     |
| 8413.11.00             | 00                   | Pumps for dispensing fuel or lubricants, of the type used in filling-stations or in garages . . . . . | No. . . . .            | Free          |                                       | 35% |
| 8413.19.00             | 00                   | Other . . . . .                                                                                       | No. . . . .            | Free          |                                       | 35% |
| 8413.20.00             | 00                   | Hand pumps, other than those of subheading 8413.11 or 8413.19 . . . . .                               | No. . . . .            | Free          |                                       | 35% |
| 8413.30                |                      | Fuel, lubricating or cooling medium pumps for internal combustion piston engines:                     |                        |               |                                       |     |
| 8413.30.10             | 00                   | Fuel-injection pumps for compression-ignition engines . . . . .                                       | No. . . . .            | 2.5%          | Free (A*,B,C,CA, CL,E,IL,J,JO, MX,SG) | 35% |
| 8413.30.90             |                      | Other . . . . .                                                                                       |                        | 2.5%          | Free (A,B,C,CA,, CL,E,IL,J,JO, MX,SG) | 35% |
|                        | 30                   | Fuel pumps . . . . .                                                                                  | No.                    |               |                                       |     |
|                        | 60                   | Lubricating pumps . . . . .                                                                           | No.                    |               |                                       |     |
|                        | 90                   | Other . . . . .                                                                                       | No.                    |               |                                       |     |
| 8413.40.00             | 00                   | Concrete pumps . . . . .                                                                              | No. . . . .            | Free          |                                       | 35% |
| 8413.50.00             |                      | Other reciprocating positive displacement pumps . . . . .                                             |                        | Free          |                                       | 35% |
|                        | 10                   | Oil well and oil field pumps . . . . .                                                                | No.                    |               |                                       |     |
|                        | 50                   | Diaphragm pumps . . . . .                                                                             | No.                    |               |                                       |     |
|                        |                      | Other:                                                                                                |                        |               |                                       |     |
|                        |                      | Hydraulic fluid power pumps:                                                                          |                        |               |                                       |     |
|                        | 70                   | Radial piston type . . . . .                                                                          | No.                    |               |                                       |     |
|                        | 80                   | Other . . . . .                                                                                       | No.                    |               |                                       |     |
|                        | 90                   | Other . . . . .                                                                                       | No.                    |               |                                       |     |
| 8413.60.00             |                      | Other rotary positive displacement pumps . . . . .                                                    |                        | Free          |                                       | 35% |
|                        |                      | Hydraulic fluid power pumps:                                                                          |                        |               |                                       |     |
|                        | 20                   | Vane type . . . . .                                                                                   | No.                    |               |                                       |     |
|                        | 30                   | Gear type . . . . .                                                                                   | No.                    |               |                                       |     |
|                        | 40                   | Other . . . . .                                                                                       | No.                    |               |                                       |     |
|                        |                      | Other:                                                                                                |                        |               |                                       |     |
|                        | 50                   | Oil well and oil field pumps . . . . .                                                                | No.                    |               |                                       |     |
|                        | 70                   | Roller pumps . . . . .                                                                                | No.                    |               |                                       |     |
|                        | 90                   | Other . . . . .                                                                                       | No.                    |               |                                       |     |

# Harmonized Tariff Schedule of the United States (2004)

Annotated for Statistical Reporting Purposes

XVI  
84-15

| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                       | Unit<br>of<br>Quantity | Rates of Duty |                                      |     |
|------------------------|----------------------|-----------------------------------------------------------------------------------------------------------|------------------------|---------------|--------------------------------------|-----|
|                        |                      |                                                                                                           |                        | 1             |                                      | 2   |
|                        |                      |                                                                                                           |                        | General       | Special                              |     |
| 8413<br>(con.)         |                      | Pumps for liquids, whether or not fitted with a measuring device; liquid elevators; part thereof (con.):  |                        |               |                                      |     |
| 8413.70                |                      | Other centrifugal pumps:                                                                                  |                        |               |                                      |     |
| 8413.70.10             | 00                   | Stock pumps imported for use with machines for making cellulosic pulp, paper or paperboard . . . . .      | No. . . . .            | Free          |                                      | 35% |
| 8413.70.20             | 04                   | Other . . . . .                                                                                           |                        | Free          |                                      | 35% |
|                        | 05                   | Submersible pumps . . . . .                                                                               | No.                    |               |                                      |     |
|                        |                      | Other:                                                                                                    |                        |               |                                      |     |
|                        | 05                   | Single-stage, single-suction, close-coupled:<br>With discharge outlet under 5.08 cm in diameter . . . . . | No.                    |               |                                      |     |
|                        | 15                   | With discharge outlet 5.08 cm or over in diameter . . . . .                                               | No.                    |               |                                      |     |
|                        | 22                   | Single-stage, single-suction, frame-mounted:<br>With discharge outlet under 7.6 cm in diameter . . . . .  | No.                    |               |                                      |     |
|                        | 25                   | With discharge outlet 7.6 cm or over in diameter . . . . .                                                | No.                    |               |                                      |     |
|                        | 30                   | Single-stage, double-suction . . . . .                                                                    | No.                    |               |                                      |     |
|                        | 40                   | Multi-stage, single- or double-suction . . . . .                                                          | No.                    |               |                                      |     |
|                        | 90                   | Other . . . . .                                                                                           | No.                    |               |                                      |     |
| 8413.81.00             |                      | Other pumps; liquid elevators:                                                                            |                        |               |                                      |     |
|                        | 20                   | Pumps . . . . .                                                                                           |                        | Free          |                                      | 35% |
|                        | 30                   | Turbine pumps . . . . .                                                                                   | No.                    |               |                                      |     |
|                        |                      | Household water systems, self-contained; and windmill pumps . . . . .                                     | No.                    |               |                                      |     |
|                        | 40                   | Other . . . . .                                                                                           | No.                    |               |                                      |     |
| 8413.82.00             | 00                   | Liquid elevators . . . . .                                                                                | No. . . . .            | Free          |                                      | 35% |
| 8413.91                |                      | Parts:                                                                                                    |                        |               |                                      |     |
| 8413.91.10             | 00                   | Of pumps:<br>Of fuel-injection pumps for compression-ignition engines . . . . .                           | X . . . . .            | 2.5%          | Free (A,B,C,CA, CL,E,IL,J,JO, MX,SG) | 35% |
| 8413.91.20             | 00                   | Of stock pumps imported for use with machines for making cellulosic pulp, paper or paperboard . . . . .   | X . . . . .            | Free          |                                      | 35% |
| 8413.91.90             |                      | Other . . . . .                                                                                           |                        | Free          |                                      | 35% |
|                        | 10                   | Of subheading 8413.30.90 . . . . .                                                                        | X                      |               |                                      |     |
|                        | 50                   | Of hydraulic fluid power pumps . . . . .                                                                  | X                      |               |                                      |     |
|                        | 80                   | Other . . . . .                                                                                           | X                      |               |                                      |     |
| 8413.92.00             | 00                   | Of liquid elevators . . . . .                                                                             | X . . . . .            | Free          |                                      | 35% |

# Harmonized Tariff Schedule of the United States (2004)

Annotated for Statistical Reporting Purposes

XVI  
84-16

| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                                                                                | Unit<br>of<br>Quantity | Rates of Duty |                                      |     |
|------------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------|--------------------------------------|-----|
|                        |                      |                                                                                                                                                                    |                        | 1             |                                      | 2   |
|                        |                      |                                                                                                                                                                    |                        | General       | Special                              |     |
| 8414                   |                      | Air or vacuum pumps, air or other gas compressors and fans; ventilating or recycling hoods incorporating a fan, whether or not fitted with filters; parts thereof: |                        |               |                                      |     |
| 8414.10.00             | 00                   | Vacuum pumps . . . . .                                                                                                                                             | No. . . . .            | 2.5%          | Free (A,B,C,CA, CL,E,IL,J,JO, MX,SG) | 35% |
| 8414.20.00             | 00                   | Hand- or foot-operated air pumps . . . . .                                                                                                                         | No. . . . .            | 3.7%          | Free (A,B,C,CA, CL,E,IL,J,JO, MX,SG) | 35% |
| 8414.30                |                      | Compressors of a kind used in refrigerating equipment (including air conditioning):                                                                                |                        |               |                                      |     |
| 8414.30.40             | 00                   | Not exceeding 1/4 horsepower . . . . .                                                                                                                             | No. . . . .            | Free          |                                      | 35% |
| 8414.30.80             |                      | Other . . . . .                                                                                                                                                    |                        | Free          |                                      | 35% |
|                        |                      | Screw type:                                                                                                                                                        |                        |               |                                      |     |
|                        | 10                   | Not exceeding 200 horsepower . . . . .                                                                                                                             | No.                    |               |                                      |     |
|                        | 20                   | Exceeding 200 horsepower . . . . .                                                                                                                                 | No.                    |               |                                      |     |
|                        |                      | Other:                                                                                                                                                             |                        |               |                                      |     |
|                        |                      | For all refrigerants except ammonia:                                                                                                                               |                        |               |                                      |     |
|                        | 30                   | For motor vehicles . . . . .                                                                                                                                       | No.                    |               |                                      |     |
|                        |                      | Other:                                                                                                                                                             |                        |               |                                      |     |
|                        | 50                   | Exceeding 1/4 horsepower but not exceeding 1 horsepower . . . . .                                                                                                  | No.                    |               |                                      |     |
|                        | 60                   | Exceeding 1 horsepower but not exceeding 3 horsepower . . . . .                                                                                                    | No.                    |               |                                      |     |
|                        | 70                   | Exceeding 3 horsepower but not exceeding 10 horsepower . . . . .                                                                                                   | No.                    |               |                                      |     |
|                        | 80                   | Exceeding 10 horsepower . . . . .                                                                                                                                  | No.                    |               |                                      |     |
|                        | 90                   | For ammonia . . . . .                                                                                                                                              | No.                    |               |                                      |     |
| 8414.40.00             | 00                   | Air compressors mounted on a wheeled chassis for towing . . . . .                                                                                                  | No. . . . .            | 2.7%          | Free (A,CA,CL,E, IL,J,JO,MX,SG)      | 35% |
|                        |                      | Fans:                                                                                                                                                              |                        |               |                                      |     |
| 8414.51                |                      | Table, floor, wall, window, ceiling or roof fans, with a self-contained electric motor of an output not exceeding 125 W:                                           |                        |               |                                      |     |
| 8414.51.30             | 00                   | Ceiling fans for permanent installation . . . . .                                                                                                                  | No. . . . .            | 4.7%          | Free (A,C,CA,CL, E,IL,J,JO,MX, SG)   | 35% |
| 8414.51.90             |                      | Other . . . . .                                                                                                                                                    |                        | 4.7%          | Free (A,C,CA,CL, E,J,JO,MX,SG)       | 35% |
|                        | 60                   | For permanent installation . . . . .                                                                                                                               | No.                    |               |                                      |     |
|                        | 90                   | Other . . . . .                                                                                                                                                    | No.                    |               |                                      |     |
| 8414.59                |                      | Other:                                                                                                                                                             |                        |               |                                      |     |
| 8414.59.10             | 00                   | Blowers for pipe organs . . . . .                                                                                                                                  | No. . . . .            | Free          |                                      | 35% |
|                        |                      | Other:                                                                                                                                                             |                        |               |                                      |     |
| 8414.59.30             | 00                   | Turbochargers and superchargers . . . . .                                                                                                                          | No. . . . .            | 2.3%          | Free (A,B,C,CA, CL,E,IL,J,JO, MX,SG) | 35% |
| 8414.59.60             |                      | Other . . . . .                                                                                                                                                    |                        | 2.3%          | Free (A,B,C,CA, CL,E,IL,J,JO, MX,SG) | 35% |
|                        | 40                   | Suitable for use with motor vehicles . . . . .                                                                                                                     | No.                    |               |                                      |     |
|                        |                      | Other:                                                                                                                                                             |                        |               |                                      |     |
|                        | 60                   | Centrifugal . . . . .                                                                                                                                              | No.                    |               |                                      |     |
|                        | 90                   | Axial . . . . .                                                                                                                                                    | No.                    |               |                                      |     |
|                        | 95                   | Other . . . . .                                                                                                                                                    | No.                    |               |                                      |     |
| 8414.60.00             | 00                   | Hoods having a maximum horizontal side not exceeding 120 cm . . . . .                                                                                              | No. . . . .            | Free          |                                      | 35% |

# Harmonized Tariff Schedule of the United States (2004)

Annotated for Statistical Reporting Purposes

XVI  
84-17

| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                                                                                             | Unit<br>of<br>Quantity | Rates of Duty |                                            |     |
|------------------------|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------|--------------------------------------------|-----|
|                        |                      |                                                                                                                                                                                 |                        | 1             |                                            | 2   |
|                        |                      |                                                                                                                                                                                 |                        | General       | Special                                    |     |
| 8414<br>(con.)         |                      | Air or vacuum pumps, air or other gas compressors and;<br>fans ventilating or recycling hoods incorporating a fan,<br>whether or not fitted with filters; parts thereof (con.): |                        |               |                                            |     |
| 8414.80                |                      | Other, except parts:                                                                                                                                                            |                        |               |                                            |     |
|                        |                      | Air compressors:                                                                                                                                                                |                        |               |                                            |     |
| 8414.80.05             | 00                   | Turbochargers and superchargers . . . . .                                                                                                                                       | No. . . . .            | Free          |                                            | 35% |
| 8414.80.16             |                      | Other . . . . .                                                                                                                                                                 |                        | Free          |                                            | 35% |
|                        |                      | Stationary:                                                                                                                                                                     |                        |               |                                            |     |
|                        |                      | Reciprocating:                                                                                                                                                                  |                        |               |                                            |     |
|                        | 05                   | Not exceeding 746 W . . . . .                                                                                                                                                   | No.                    |               |                                            |     |
|                        | 15                   | Exceeding 746 W but not<br>exceeding 4.48 kW . . . . .                                                                                                                          | No.                    |               |                                            |     |
|                        | 25                   | Exceeding 4.48 kW but not<br>exceeding 8.21 kW . . . . .                                                                                                                        | No.                    |               |                                            |     |
|                        | 35                   | Exceeding 8.21 kW but not<br>exceeding 11.19 kW . . . . .                                                                                                                       | No.                    |               |                                            |     |
|                        | 40                   | Exceeding 11.19 kW but not<br>exceeding 19.4 kW . . . . .                                                                                                                       | No.                    |               |                                            |     |
|                        | 45                   | Exceeding 19.4 kW but not<br>exceeding 74.6 kW . . . . .                                                                                                                        | No.                    |               |                                            |     |
|                        | 55                   | Exceeding 74.6 kW . . . . .                                                                                                                                                     | No.                    |               |                                            |     |
|                        |                      | Rotary:                                                                                                                                                                         |                        |               |                                            |     |
|                        | 60                   | Not exceeding<br>11.19 kW . . . . .                                                                                                                                             | No.                    |               |                                            |     |
|                        | 65                   | Exceeding 11.19 kW<br>but under 22.38 kW . . . . .                                                                                                                              | No.                    |               |                                            |     |
|                        | 70                   | 22.38 kW and over but not<br>exceeding 74.6 kW . . . . .                                                                                                                        | No.                    |               |                                            |     |
|                        | 75                   | Exceeding 74.6 kW . . . . .                                                                                                                                                     | No.                    |               |                                            |     |
|                        | 80                   | Other . . . . .                                                                                                                                                                 | No.                    |               |                                            |     |
|                        |                      | Portable:                                                                                                                                                                       |                        |               |                                            |     |
|                        | 85                   | Under 0.57 cubic meters per minute . . .                                                                                                                                        | No.                    |               |                                            |     |
|                        | 90                   | Other . . . . .                                                                                                                                                                 | No.                    |               |                                            |     |
| 8414.80.20             |                      | Other compressors . . . . .                                                                                                                                                     |                        | Free          |                                            | 35% |
|                        | 05                   | Refrigerant recovery units . . . . .                                                                                                                                            | No.                    |               |                                            |     |
|                        |                      | Other:                                                                                                                                                                          |                        |               |                                            |     |
|                        | 15                   | Centrifugal and axial . . . . .                                                                                                                                                 | No.                    |               |                                            |     |
|                        |                      | Other, including reciprocating and rotary:                                                                                                                                      |                        |               |                                            |     |
|                        | 55                   | Not exceeding 186.5 kW . . . . .                                                                                                                                                | No.                    |               |                                            |     |
|                        | 65                   | Exceeding 186.5 kW but not<br>exceeding 746 kW . . . . .                                                                                                                        | No.                    |               |                                            |     |
|                        | 75                   | Exceeding 746 kW . . . . .                                                                                                                                                      | No.                    |               |                                            |     |
| 8414.80.90             | 00                   | Other . . . . .                                                                                                                                                                 | No. . . . .            | 3.7%          | Free (A,B,C,CA,<br>CL,E,IL,J,JO,<br>MX,SG) | 35% |

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Annotated for Statistical Reporting Purposes

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| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                                                                                       | Unit<br>of<br>Quantity | Rates of Duty |                                      |     |
|------------------------|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------|--------------------------------------|-----|
|                        |                      |                                                                                                                                                                           |                        | 1             |                                      | 2   |
|                        |                      |                                                                                                                                                                           |                        | General       | Special                              |     |
| 8414<br>(con.)         |                      | Air or vacuum pumps, air or other gas compressors and fans; ventilating or recycling hoods incorporating a fan, whether or not fitted with filters; parts thereof (con.): |                        |               |                                      |     |
| 8414.90                |                      | Parts:                                                                                                                                                                    |                        |               |                                      |     |
| 8414.90.10             |                      | Of fans (including blowers) and ventilating or recycling hoods . . . . .                                                                                                  |                        | 4.7%          | Free (A,B,C,CA, CL,E,IL,J,JO, MX,SG) | 35% |
|                        | 40                   | Of fans of subheading 8414.51.00 . . . . .                                                                                                                                | X                      |               |                                      |     |
|                        | 80                   | Other . . . . .                                                                                                                                                           | X                      |               |                                      |     |
|                        |                      | Of compressors:                                                                                                                                                           |                        |               |                                      |     |
| 8414.90.30             | 00                   | Stators and rotors of goods of subheading 8414.30 . . . . .                                                                                                               | No.                    | Free          |                                      |     |
|                        |                      | Other . . . . .                                                                                                                                                           |                        | Free          |                                      |     |
| 8414.90.41             |                      | Of refrigerating and air conditioning compressors:                                                                                                                        |                        |               |                                      |     |
|                        | 20                   | Compressor housings . . . . .                                                                                                                                             | No.                    |               |                                      |     |
|                        | 40                   | Other . . . . .                                                                                                                                                           | X                      |               |                                      |     |
|                        |                      | Other:                                                                                                                                                                    |                        |               |                                      |     |
|                        |                      | Of compressors of subheading 8414.40:                                                                                                                                     |                        |               |                                      |     |
|                        | 45                   | Compressor housings . . . . .                                                                                                                                             | No.                    |               |                                      |     |
|                        | 55                   | Other . . . . .                                                                                                                                                           | X                      |               |                                      |     |
|                        |                      | Other:                                                                                                                                                                    |                        |               |                                      |     |
|                        | 65                   | Compressor housings . . . . .                                                                                                                                             | No.                    |               |                                      |     |
|                        | 75                   | Other . . . . .                                                                                                                                                           | X                      |               |                                      |     |
| 8414.90.90             |                      | Other . . . . .                                                                                                                                                           |                        | Free          |                                      |     |
|                        | 40                   | Of vacuum pumps . . . . .                                                                                                                                                 | X                      |               |                                      |     |
|                        | 80                   | Other . . . . .                                                                                                                                                           | X                      |               |                                      |     |

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| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                                                                                                                            | Unit<br>of<br>Quantity | Rates of Duty |                                       |     |
|------------------------|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------|---------------------------------------|-----|
|                        |                      |                                                                                                                                                                                                                |                        | 1             |                                       | 2   |
|                        |                      |                                                                                                                                                                                                                |                        | General       | Special                               |     |
| 8415                   |                      | Air conditioning machines, comprising a motor-driven fan and elements for changing the temperature and humidity, including those machines in which the humidity cannot be separately regulated; parts thereof: |                        |               |                                       |     |
| 8415.10                |                      | Window or wall types, self-contained or "split-system":                                                                                                                                                        |                        |               |                                       |     |
| 8415.10.30             |                      | Self-contained . . . . .                                                                                                                                                                                       | No.                    | Free          |                                       | 35% |
|                        | 40                   | Less than 2.93 kW per hour . . . . .                                                                                                                                                                           | No.                    |               |                                       |     |
|                        | 60                   | 2.93 kW per hour or greater but less than 4.98 kW per hour . . . . .                                                                                                                                           | No.                    |               |                                       |     |
|                        | 80                   | 4.98 kW per hour or greater . . . . .                                                                                                                                                                          | No.                    |               |                                       |     |
| 8415.10.60             | 00                   | Other:<br>Incorporating a refrigerating unit and a valve for reversal of the cooling/heat cycle (reversible heat pumps) . . . . .                                                                              | No. . . . .            | 1%            | Free (A,B,C,CA, CL,E,IL, J,JO, MX,SG) | 35% |
| 8415.10.90             | 00                   | Other . . . . .                                                                                                                                                                                                | No. . . . .            | 2.2%          | Free (A,B,C,CA, CL,E,IL, J,JO, MX,SG) | 35% |
| 8415.20.00             | 00                   | Of a kind used for persons, in motor vehicles . . . . .                                                                                                                                                        | No. . . . .            | 1.4%          | Free (A,B,CA,CL, E,IL,J,JO,MX, SG)    | 35% |
| 8415.81.01             |                      | Other, except parts:<br>Incorporating a refrigerating unit and a valve for reversal of the cooling/heat cycle (reversible heat pumps) . . . . .                                                                |                        | 1%            | Free (A,B,C,CA, CL,E,IL,J,JO, MX,SG)  | 35% |
|                        | 10                   | Self-contained:                                                                                                                                                                                                |                        |               |                                       |     |
|                        | 20                   | Not exceeding 17.58 kW per hour . . . . .                                                                                                                                                                      | No.                    |               |                                       |     |
|                        | 30                   | Exceeding 17.58 kW per hour . . . . .                                                                                                                                                                          | No.                    |               |                                       |     |
| 8415.82.01             |                      | Other . . . . .                                                                                                                                                                                                | No.                    |               |                                       |     |
|                        |                      | Other, incorporating a refrigerating unit . . . . .                                                                                                                                                            |                        | 2.2%          | Free (A,B,C,CA, CL,E,IL,J,JO, MX,SG)  | 35% |
|                        | 05                   | Self-contained machines and remote condenser type air conditioners other than year-round units:                                                                                                                |                        |               |                                       |     |
|                        | 10                   | Not exceeding 17.58 kW per hour . . . . .                                                                                                                                                                      | No.                    |               |                                       |     |
|                        |                      | Exceeding 17.58 kW per hour . . . . .                                                                                                                                                                          | No.                    |               |                                       |     |
|                        | 15                   | Year-round units (heating and cooling):                                                                                                                                                                        |                        |               |                                       |     |
|                        | 20                   | Not exceeding 17.58 kW per hour . . . . .                                                                                                                                                                      | No.                    |               |                                       |     |
|                        |                      | Exceeding 17.58 kW per hour . . . . .                                                                                                                                                                          | No.                    |               |                                       |     |
|                        | 30                   | Room or central station air conditioning units for use with water chillers:                                                                                                                                    |                        |               |                                       |     |
|                        | 35                   | Room fan coil units . . . . .                                                                                                                                                                                  | No.                    |               |                                       |     |
|                        | 40                   | Central station air handlers . . . . .                                                                                                                                                                         | No.                    |               |                                       |     |
|                        |                      | Other . . . . .                                                                                                                                                                                                | No.                    |               |                                       |     |
|                        | 55                   | Dehumidifiers:                                                                                                                                                                                                 |                        |               |                                       |     |
|                        |                      | With a rated water removal capacity of less than 35 liters over a 24 hour period . . . . .                                                                                                                     | No.                    |               |                                       |     |
|                        | 60                   | Other . . . . .                                                                                                                                                                                                | No.                    |               |                                       |     |
| 8415.83.00             | 70                   | Other air conditioning machines incorporating a refrigerating unit . . . . .                                                                                                                                   | No.                    |               |                                       |     |
|                        |                      | Not incorporating a refrigerating unit . . . . .                                                                                                                                                               |                        | 1.4%          | Free (A,B,C,CA, CL,E,IL,J,JO, MX,SG)  | 35% |
|                        | 50                   | Heat exchangers including condensing units:                                                                                                                                                                    |                        |               |                                       |     |
|                        | 60                   | Condensing units:                                                                                                                                                                                              |                        |               |                                       |     |
|                        | 70                   | Not exceeding 17.58 kW per hour . . . . .                                                                                                                                                                      | No.                    |               |                                       |     |
|                        |                      | Exceeding 17.58 kW per hour . . . . .                                                                                                                                                                          | No.                    |               |                                       |     |
|                        | 90                   | Other . . . . .                                                                                                                                                                                                | No.                    |               |                                       |     |
|                        |                      | Other air conditioning machines not incorporating a refrigerating unit . . . . .                                                                                                                               | No.                    |               |                                       |     |

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Annotated for Statistical Reporting Purposes

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| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                                                                                                                                   | Unit<br>of<br>Quantity | Rates of Duty |                                      |       |
|------------------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------|--------------------------------------|-------|
|                        |                      |                                                                                                                                                                                                                       |                        | 1             |                                      | 2     |
|                        |                      |                                                                                                                                                                                                                       |                        | General       | Special                              |       |
| 8415<br>(con.)         |                      | Air conditioning machines, comprising a motor-driven fan and elements for changing the temperature and humidity, including those machines in which the humidity cannot be separately regulated; parts thereof (con.): |                        |               |                                      |       |
| 8415.90                |                      | Parts:                                                                                                                                                                                                                |                        |               |                                      |       |
| 8415.90.40             | 00                   | Chassis, chassis bases and outer cabinets . . . . .                                                                                                                                                                   | No. . . . .            | 1.4%          | Free (A,B,C,CA, CL,E,IL,J,JO, MX,SG) | 35%   |
| 8415.90.80             |                      | Other . . . . .                                                                                                                                                                                                       |                        | 1.4%          | Free (A,B,C,CA, CL,E,IL,J,JO, MX,SG) | 35%   |
|                        | 25                   | Air conditioning evaporator coils . . . . .                                                                                                                                                                           | No.                    |               |                                      |       |
|                        |                      | Other:                                                                                                                                                                                                                |                        |               |                                      |       |
|                        | 45                   | Of automotive air conditioners . . . . .                                                                                                                                                                              | X                      |               |                                      |       |
|                        | 65                   | Of heat pumps . . . . .                                                                                                                                                                                               | X                      |               |                                      |       |
|                        | 85                   | Other . . . . .                                                                                                                                                                                                       | X                      |               |                                      |       |
| 8416                   |                      | Furnace burners for liquid fuel, for pulverized solid fuel or for gas; mechanical stokers, including their mechanical grates, mechanical ash dischargers and similar appliances; parts thereof:                       |                        |               |                                      |       |
| 8416.10.00             | 00                   | Furnace burners for liquid fuel . . . . .                                                                                                                                                                             | No. . . . .            | Free          |                                      | 27.5% |
| 8416.20.00             |                      | Other furnace burners, including combination burners . . . . .                                                                                                                                                        |                        | Free          |                                      | 27.5% |
|                        | 40                   | Gas burners . . . . .                                                                                                                                                                                                 | No.                    |               |                                      |       |
|                        | 80                   | Other . . . . .                                                                                                                                                                                                       | No.                    |               |                                      |       |
| 8416.30.00             | 00                   | Mechanical stokers, including their mechanical grates, mechanical ash dischargers and similar appliances . . .                                                                                                        | X . . . . .            | Free          |                                      | 27.5% |
| 8416.90.00             | 00                   | Parts . . . . .                                                                                                                                                                                                       | X . . . . .            | Free          |                                      | 27.5% |
| 8417                   |                      | Industrial or laboratory furnaces and ovens, including incinerators, nonelectric, and parts thereof:                                                                                                                  |                        |               |                                      |       |
| 8417.10.00             | 00                   | Furnaces and ovens for the roasting, melting or other heat treatment of ores, pyrites or of metals . . . . .                                                                                                          | No. . . . .            | 2.9%          | Free (A,CA,CL,E, IL,J,JO,MX,SG)      | 45%   |
| 8417.20.00             | 00                   | Bakery ovens, including biscuit ovens . . . . .                                                                                                                                                                       | No. . . . .            | 3.5%          | Free (A,CA,CL,E, IL,J,JO,MX,SG)      | 45%   |
| 8417.80.00             | 00                   | Other, except parts . . . . .                                                                                                                                                                                         | No. . . . .            | 3.9%          | Free (A,CA,CL,E, IL,J,JO,MX,SG)      | 45%   |
| 8417.90.00             | 00                   | Parts . . . . .                                                                                                                                                                                                       | X . . . . .            | 3.9%          | Free (A,CA,CL,E, IL,J,JO,MX,SG)      | 45%   |



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| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                                                                                            | Unit<br>of<br>Quantity | Rates of Duty |                                |     |
|------------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------|--------------------------------|-----|
|                        |                      |                                                                                                                                                                                |                        | 1             |                                | 2   |
|                        |                      |                                                                                                                                                                                |                        | General       | Special                        |     |
| 8418                   |                      | Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps, other than the air conditioning machines of heading 8415; parts thereof: |                        |               |                                |     |
| 8418.10.00             |                      | Combined refrigerator-freezers, fitted with separate external doors . . . . .                                                                                                  |                        | Free          |                                | 35% |
|                        | 10                   | Compression type:<br>Having a refrigerated volume of under 184 liters . . . . .                                                                                                | No.                    |               |                                |     |
|                        | 20                   | Having a refrigerated volume of 184 liters and over but under 269 liters . . . . .                                                                                             | No.                    |               |                                |     |
|                        | 30                   | Having a refrigerated volume of 269 liters and over but under 382 liters . . . . .                                                                                             | No.                    |               |                                |     |
|                        | 40                   | Having a refrigerated volume of 382 liters and over . . . . .                                                                                                                  | No.                    |               |                                |     |
|                        | 90                   | Other . . . . .                                                                                                                                                                | No.                    |               |                                |     |
| 8418.21.00             |                      | Refrigerators, household type:<br>Compression type . . . . .                                                                                                                   |                        | Free          |                                | 35% |
|                        | 10                   | Having a refrigerated volume of under 184 liters . . . . .                                                                                                                     | No.                    |               |                                |     |
|                        | 20                   | Having a refrigerated volume of 184 liters and over but under 269 liters . . . . .                                                                                             | No.                    |               |                                |     |
|                        | 30                   | Having a refrigerated volume of 269 liters and over but under 382 liters . . . . .                                                                                             | No.                    |               |                                |     |
|                        | 90                   | Having a refrigerated volume of 382 liters and over . . . . .                                                                                                                  | No.                    |               |                                |     |
| 8418.22.00             | 00                   | Absorption type, electrical . . . . .                                                                                                                                          | No. . . . .            | 1%            | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 35% |
| 8418.29.00             | 00                   | Other . . . . .                                                                                                                                                                | No. . . . .            | 1.9%          | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 35% |
| 8418.30.00             | 00                   | Freezers of the chest type, not exceeding 800 liters capacity . . . . .                                                                                                        | No. . . . .            | Free          |                                | 35% |
| 8418.40.00             | 00                   | Freezers of the upright type, not exceeding 900 liters capacity . . . . .                                                                                                      | No. . . . .            | Free          |                                | 35% |
| 8418.50.00             |                      | Other refrigerating or freezing chests, cabinets, display counters, showcases and similar refrigerating or freezing furniture . . . . .                                        |                        | Free          |                                | 35% |
|                        | 40                   | Freezing . . . . .                                                                                                                                                             | No.                    |               |                                |     |
|                        | 80                   | Other . . . . .                                                                                                                                                                | No.                    |               |                                |     |

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Annotated for Statistical Reporting Purposes

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| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                                                                                                   | Unit<br>of<br>Quantity | Rates of Duty |         |     |
|------------------------|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------|---------|-----|
|                        |                      |                                                                                                                                                                                       |                        | 1             |         | 2   |
|                        |                      |                                                                                                                                                                                       |                        | General       | Special |     |
| 8418<br>(con.)         |                      | Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps, other than the air conditioning machines of heading 8415; parts thereof (con.): |                        |               |         |     |
| 8418.61.00             |                      | Other refrigerating or freezing equipment; heat pumps: Compression type units whose condensers are heat exchangers                                                                    | No.                    | Free          |         | 35% |
|                        | 05                   | Heat pumps                                                                                                                                                                            | No.                    |               |         |     |
|                        |                      | Other:                                                                                                                                                                                |                        |               |         |     |
|                        | 10                   | Icemaking machines:                                                                                                                                                                   |                        |               |         |     |
|                        |                      | Self-contained, cube and flake with a capacity not exceeding 227 kg                                                                                                                   | No.                    |               |         |     |
|                        | 15                   | Other                                                                                                                                                                                 | No.                    |               |         |     |
|                        | 20                   | Drinking water coolers, self-contained                                                                                                                                                | No.                    |               |         |     |
|                        | 25                   | Soda fountain and beer dispensing equipment                                                                                                                                           | No.                    |               |         |     |
|                        |                      | Centrifugal liquid chilling refrigerating units:                                                                                                                                      |                        |               |         |     |
|                        | 45                   | Open-type                                                                                                                                                                             | No.                    |               |         |     |
|                        | 50                   | Hermetic-type                                                                                                                                                                         | No.                    |               |         |     |
|                        | 60                   | Reciprocating liquid chilling refrigerating units                                                                                                                                     | No.                    |               |         |     |
|                        |                      | Other refrigerating or freezing equipment:                                                                                                                                            |                        |               |         |     |
|                        | 65                   | Household                                                                                                                                                                             | No.                    |               |         |     |
|                        | 75                   | Other                                                                                                                                                                                 | No.                    |               |         |     |
| 8418.69.00             |                      | Other                                                                                                                                                                                 |                        | Free          |         | 35% |
|                        | 55                   | Absorption liquid chilling units                                                                                                                                                      | No.                    |               |         |     |
|                        |                      | Other refrigerating or freezing equipment:                                                                                                                                            |                        |               |         |     |
|                        | 75                   | Household                                                                                                                                                                             | No.                    |               |         |     |
|                        | 85                   | Other                                                                                                                                                                                 | No.                    |               |         |     |
| 8418.91.00             | 00                   | Parts:<br>Furniture designed to receive refrigerating or freezing equipment                                                                                                           | X                      | Free          |         | 35% |
| 8418.99                |                      | Other:                                                                                                                                                                                |                        |               |         |     |
| 8418.99.40             | 00                   | Door assemblies incorporating more than one of the following: inner panel; outer panel; insulation; hinges; handles                                                                   | X                      | Free          |         | 35% |
| 8418.99.80             |                      | Other                                                                                                                                                                                 |                        | Free          |         | 35% |
|                        |                      | Refrigeration condensing units:                                                                                                                                                       |                        |               |         |     |
|                        | 05                   | Not exceeding 746 W                                                                                                                                                                   | No.                    |               |         |     |
|                        | 10                   | Exceeding 746 W but not exceeding 2.2 kW                                                                                                                                              | No.                    |               |         |     |
|                        | 15                   | Exceeding 2.2 kW but not exceeding 7.5 kW                                                                                                                                             | No.                    |               |         |     |
|                        | 20                   | Exceeding 7.5 kW but not exceeding 22.3 kW                                                                                                                                            | No.                    |               |         |     |
|                        | 25                   | Exceeding 22.3 kW                                                                                                                                                                     | No.                    |               |         |     |
|                        |                      | Other:                                                                                                                                                                                |                        |               |         |     |
|                        | 50                   | Parts of combined refrigerator-freezers fitted with separate external doors and parts of household type refrigerators                                                                 | X                      |               |         |     |
|                        | 60                   | Other                                                                                                                                                                                 | X                      |               |         |     |

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| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Unit<br>of<br>Quantity | Rates of Duty |                                          |     |
|------------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------|------------------------------------------|-----|
|                        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                        | 1             |                                          | 2   |
|                        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                        | General       | Special                                  |     |
| 8419                   |                      | Machinery, plant or laboratory equipment, whether or not electrically heated (excluding furnaces, ovens and other equipment of heading 8514), for the treatment of materials by a process involving a change of temperature such as heating, cooking, roasting, distilling, rectifying, sterilizing, pasteurizing, steaming, drying, evaporating, vaporizing, condensing or cooling, other than machinery or plant of a kind used for domestic purposes; instantaneous or storage water heaters, nonelectric; parts thereof: |                        |               |                                          |     |
|                        |                      | Instantaneous or storage water heaters, nonelectric:                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                        |               |                                          |     |
| 8419.11.00             | 00                   | Instantaneous gas water heaters . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | No. . . . .            | Free          |                                          | 45% |
| 8419.19.00             |                      | Other . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                        | Free          |                                          | 45% |
|                        | 20                   | Instantaneous water heaters . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | No.                    |               |                                          |     |
|                        | 40                   | Solar water heaters . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | No.                    |               |                                          |     |
|                        | 60                   | Other . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | No.                    |               |                                          |     |
| 8419.20.00             | 00                   | Medical, surgical or laboratory sterilizers . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | No. . . . .            | Free          |                                          | 35% |
|                        |                      | Dryers:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                        |               |                                          |     |
| 8419.31.00             | 00                   | For agricultural products . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | No. . . . .            | Free          |                                          | 35% |
| 8419.32                |                      | For wood, paper pulp, paper or paperboard:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                        |               |                                          |     |
| 8419.32.10             | 00                   | For wood . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | No. . . . .            | Free          |                                          | 35% |
| 8419.32.50             | 00                   | Other . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | No. . . . .            | Free          |                                          | 35% |
| 8419.39.01             |                      | Other . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                        | Free          |                                          | 35% |
|                        | 40                   | For food and beverages . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | No.                    |               |                                          |     |
|                        | 80                   | Other . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | No.                    |               |                                          |     |
| 8419.40.00             |                      | Distilling or rectifying plant . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                        | Free          |                                          | 35% |
|                        | 40                   | For food and beverages . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | No.                    |               |                                          |     |
|                        | 80                   | Other . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | No.                    |               |                                          |     |
| 8419.50                |                      | Heat exchange units:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                        |               |                                          |     |
| 8419.50.10             | 00                   | Brazen aluminum plate-fin heat exchangers . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | No. . . . .            | 4.2%          | Free (A,C,CA,CL,<br>E,IL,J,JO,MX,<br>SG) | 35% |
| 8419.50.50             | 00                   | Other . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | No. . . . .            | Free          |                                          | 35% |
| 8419.60                |                      | Machinery for liquefying air or other gases:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        |               |                                          |     |
| 8419.60.10             | 00                   | Machinery containing brazen aluminum plate-fin heat exchangers . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                     | No. . . . .            | 4.2%          | Free (A,CA,CL,E,<br>IL,J,JO,MX,SG)       | 35% |
| 8419.60.50             | 00                   | Other . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | No. . . . .            | Free          |                                          | 35% |
|                        |                      | Other machinery, plant or equipment:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                        |               |                                          |     |
| 8419.81                |                      | For making hot drinks or for cooking or heating food:                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                        |               |                                          |     |
| 8419.81.50             |                      | Cooking stoves, ranges and ovens . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                        | Free          |                                          | 35% |
|                        | 40                   | For use in civil aircraft <sup>1/</sup> . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | No.                    |               |                                          |     |
|                        | 80                   | Other . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | No.                    |               |                                          |     |
| 8419.81.90             |                      | Other . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                        | Free          |                                          | 35% |
|                        | 40                   | Of a type used in restaurants, hotels or similar locations . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                         | No.                    |               |                                          |     |
|                        | 80                   | Other . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | No.                    |               |                                          |     |
| 8419.89                |                      | Other:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                        |               |                                          |     |
| 8419.89.10             | 00                   | For making paper pulp, paper or paperboard . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | No. . . . .            | Free          |                                          | 35% |
|                        |                      | Other:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                        |               |                                          |     |
| 8419.89.60             | 00                   | Molten-salt-cooled acrylic acid reactors . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | No. . . . .            | Free          |                                          | 35% |
| 8419.89.95             |                      | Other . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                        | 4.2%          | Free (A,CA,CL,E,<br>IL,J,JO,MX,SG)       | 35% |
|                        |                      | Designed for cooling:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                        |               |                                          |     |
|                        | 20                   | For food and beverages . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | No.                    |               |                                          |     |
|                        | 40                   | Other . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | No.                    |               |                                          |     |
|                        |                      | Other:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                        |               |                                          |     |
|                        | 60                   | For food and beverages . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | No.                    |               |                                          |     |
|                        | 80                   | For rubber and plastics . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | No.                    |               |                                          |     |
|                        | 85                   | For other materials . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | No.                    |               |                                          |     |

<sup>1/</sup> See General Note 6.

# Harmonized Tariff Schedule of the United States (2004)

Annotated for Statistical Reporting Purposes

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| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Unit<br>of<br>Quantity | Rates of Duty |                                |     |
|------------------------|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------|--------------------------------|-----|
|                        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                        | 1             |                                | 2   |
|                        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                        | General       | Special                        |     |
| 8419<br>(con.)         |                      | Machinery, plant or laboratory equipment, whether or not electrically heated (excluding furnaces, ovens and other equipment of heading 8514), for the treatment of materials by a process involving a change of temperature such as heating, cooking, roasting, distilling, rectifying, sterilizing, pasteurizing, steaming, drying, evaporating, vaporizing, condensing or cooling, other than machinery or plant of a kind used for domestic purposes; instantaneous or storage water heaters, nonelectric; parts thereof (con.): |                        |               |                                |     |
| 8419.90                |                      | Parts:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                        |               |                                |     |
| 8419.90.10             | 00                   | Of instantaneous or storage water heaters . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | X . . . . .            | Free          |                                | 45% |
| 8419.90.20             | 00                   | Of machinery and plant for making paper pulp, paper or paperboard . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                         | X . . . . .            | Free          |                                | 35% |
| 8419.90.30             | 00                   | Of heat exchange units . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | X . . . . .            | Free          |                                | 35% |
| 8419.90.50             |                      | Other:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                        |               |                                |     |
|                        | 40                   | Of molten-salt-cooled acrylic acid reactors; of medical, surgical or laboratory sterilizers . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                               |                        | Free          |                                | 35% |
|                        | 80                   | Of medical, surgical or laboratory sterilizers . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | X                      |               |                                |     |
| 8419.90.85             | 00                   | Other . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | X                      |               |                                |     |
|                        | 80                   | Of electromechanical tools for working in the hand with self-contained electric motor . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                     | X . . . . .            | Free          |                                | 35% |
| 8419.90.95             |                      | Other . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                        | 4%            | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 35% |
|                        | 20                   | Of an apparatus of a type used in restaurants, hotels or similar locations . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                | X                      |               |                                |     |
|                        | 80                   | Other . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | X                      |               |                                |     |
| 8420                   |                      | Calendering or other rolling machines, other than for metals or glass, and cylinders therefor; parts thereof:                                                                                                                                                                                                                                                                                                                                                                                                                       |                        |               |                                |     |
| 8420.10                |                      | Calendering or other rolling machines:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                        |               |                                |     |
| 8420.10.10             | 00                   | Textile calendering or rolling machines . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | No. . . . .            | 3.5%          | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 40% |
| 8420.10.20             | 00                   | Calendering or similar rolling machines for making paper pulp, paper or paperboard . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                        | No. . . . .            | Free          |                                | 35% |
| 8420.10.90             |                      | Other . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                        | Free          |                                | 35% |
|                        | 40                   | Calendering or other rolling machines for rubber and plastics . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                             | No.                    |               |                                |     |
|                        | 80                   | Other . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | No.                    |               |                                |     |
| 8420.91                |                      | Parts:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                        |               |                                |     |
| 8420.91.10             | 00                   | Cylinders:<br>For textile calendering or rolling machines . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | No. . . . .            | 2.6%          | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 40% |
| 8420.91.20             | 00                   | For calendering or other rolling machines for machines for making paper pulp, paper or paperboard . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                         | No. . . . .            | Free          |                                | 35% |
| 8420.91.90             | 00                   | Other . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | No. . . . .            | Free          |                                | 35% |
| 8420.99                |                      | Other:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                        |               |                                |     |
| 8420.99.10             | 00                   | Of machines for processing textiles . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | X . . . . .            | 3.5%          | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 40% |
| 8420.99.20             | 00                   | Of machines for making paper pulp, paper or paperboard . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | X . . . . .            | Free          |                                | 35% |
| 8420.99.90             | 00                   | Other . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | X . . . . .            | Free          |                                | 35% |

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| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                                             | Unit<br>of<br>Quantity | Rates of Duty |                                    |     |
|------------------------|----------------------|---------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------|------------------------------------|-----|
|                        |                      |                                                                                                                                 |                        | 1             |                                    | 2   |
|                        |                      |                                                                                                                                 |                        | General       | Special                            |     |
| 8421                   |                      | Centrifuges, including centrifugal dryers; filtering or purifying machinery and apparatus, for liquids or gases; parts thereof: |                        |               |                                    |     |
|                        |                      | Centrifuges, including centrifugal dryers:                                                                                      |                        |               |                                    |     |
| 8421.11.00             | 00                   | Cream separators .....                                                                                                          | No. ....               | Free          |                                    | 25% |
| 8421.12.00             | 00                   | Clothes-dryers .....                                                                                                            | No. ....               | Free          |                                    | 25% |
| 8421.19                |                      | Other:                                                                                                                          |                        |               |                                    |     |
| 8421.19.30             | 00                   | Spin dryers for semiconductor wafer processing .....                                                                            | No. ....               | Free          |                                    | 25% |
| 8421.19.90             | 00                   | Other .....                                                                                                                     | No. ....               | 1.3%          | Free (A,C,CA,CL,E,IL,J,JO,MX,SG)   | 25% |
|                        |                      | Filtering or purifying machinery and apparatus for liquids:                                                                     |                        |               |                                    |     |
| 8421.21.00             | 00                   | For filtering or purifying water .....                                                                                          | No. ....               | Free          |                                    | 35% |
| 8421.22.00             | 00                   | For filtering or purifying beverages other than water .....                                                                     | No. ....               | Free          |                                    | 35% |
| 8421.23.00             | 00                   | Oil or fuel filters for internal combustion engines .. X .....                                                                  | X .....                | 2.5%          | Free (A,B,C,CA,CL,E,IL,J,JO,MX,SG) | 35% |
| 8421.29.00             |                      | Other .....                                                                                                                     |                        | Free          |                                    | 35% |
|                        | 05                   | Refrigerant recovery and recycling units .....                                                                                  | No.                    |               |                                    |     |
|                        | 15                   | Other:                                                                                                                          |                        |               |                                    |     |
|                        | 40                   | Oil-separation equipment .....                                                                                                  | No.                    |               |                                    |     |
|                        | 65                   | Other .....                                                                                                                     | No.                    |               |                                    |     |
|                        |                      | Filtering or purifying machinery and apparatus for gases:                                                                       |                        |               |                                    |     |
| 8421.31.00             | 00                   | Intake air filters for internal combustion engines ... X .....                                                                  | X .....                | 2.5%          | Free (A,B,C,CA,CL,E,IL,J,JO,MX,SG) | 35% |
| 8421.39                |                      | Other:                                                                                                                          |                        |               |                                    |     |
| 8421.39.40             | 00                   | Catalytic converters .....                                                                                                      | No. ....               | Free          |                                    | 35% |
| 8421.39.80             |                      | Other .....                                                                                                                     |                        | Free          |                                    | 35% |
|                        |                      | Dust collection and air purification equipment:                                                                                 |                        |               |                                    |     |
|                        | 05                   | For machine tools of headings 8456 through 8465, inclusive .....                                                                | X                      |               |                                    |     |
|                        | 15                   | Other .....                                                                                                                     | X                      |               |                                    |     |
|                        |                      | Other:                                                                                                                          |                        |               |                                    |     |
|                        | 20                   | Industrial gas cleaning equipment:                                                                                              |                        |               |                                    |     |
|                        | 30                   | Electrostatic precipitators .....                                                                                               | No.                    |               |                                    |     |
|                        | 40                   | Other .....                                                                                                                     | No.                    |               |                                    |     |
|                        | 40                   | Gas separation equipment .....                                                                                                  | No.                    |               |                                    |     |
|                        |                      | Other:                                                                                                                          |                        |               |                                    |     |
|                        | 60                   | Pneumatic fluid power filters, rated at 550 kPa or greater .....                                                                | No.                    |               |                                    |     |
|                        | 90                   | Other .....                                                                                                                     | X                      |               |                                    |     |

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| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                                                    | Unit<br>of<br>Quantity | Rates of Duty |         |     |
|------------------------|----------------------|----------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------|---------|-----|
|                        |                      |                                                                                                                                        |                        | 1             |         | 2   |
|                        |                      |                                                                                                                                        |                        | General       | Special |     |
| 8421<br>(con.)         |                      | Centrifuges, including centrifugal dryers; filtering or purifying machinery and apparatus, for liquids or gases; parts thereof (con):  |                        |               |         |     |
| 8421.91                |                      | Parts:                                                                                                                                 |                        |               |         |     |
|                        |                      | Of centrifuges, including centrifugal dryers:                                                                                          |                        |               |         |     |
| 8421.91.20             | 00                   | Drying chambers for the clothes-dryers of subheading 8421.12 and other parts of clothes-dryers incorporating drying chambers . . . . . | X . . . . .            | Free          |         | 25% |
| 8421.91.40             | 00                   | Furniture designed to receive the clothes-dryers of subheading 8421.12 . . . . .                                                       | X . . . . .            | Free          |         | 25% |
| 8421.91.60             | 00                   | Other . . . . .                                                                                                                        | X . . . . .            | Free          |         | 25% |
| 8421.99.00             |                      | Other . . . . .                                                                                                                        |                        | Free          |         | 35% |
|                        | 40                   | Parts of machinery and apparatus for filtering or purifying water . . . . .                                                            | X                      |               |         |     |
|                        | 80                   | Other . . . . .                                                                                                                        | X                      |               |         |     |

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| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                                                                                                                                                                                                                                                                                                           | Unit<br>of<br>Quantity | Rates of Duty |                                    |     |
|------------------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------|------------------------------------|-----|
|                        |                      |                                                                                                                                                                                                                                                                                                                                                                                               |                        | 1             |                                    | 2   |
|                        |                      |                                                                                                                                                                                                                                                                                                                                                                                               |                        | General       | Special                            |     |
| 8422                   |                      | Dishwashing machines; machinery for cleaning or drying bottles or other containers; machinery for filling, closing, sealing or labeling bottles, cans, boxes, bags or other containers; machinery for capsuling bottles, jars, tubes and similar containers; other packing or wrapping machinery (including heat-shrink wrapping machinery); machinery for aerating beverages; parts thereof: |                        |               |                                    |     |
| 8422.11.00             | 00                   | Dishwashing machines:<br>Of the household type . . . . .                                                                                                                                                                                                                                                                                                                                      | No. . . . .            | 2.4%          | Free (A,CA,CL,E,<br>IL,J,JO,MX,SG) | 35% |
| 8422.19.00             | 00                   | Other . . . . .                                                                                                                                                                                                                                                                                                                                                                               | No. . . . .            | Free          |                                    | 35% |
| 8422.20.00             | 00                   | Machinery for cleaning or drying bottles or other containers . . . . .                                                                                                                                                                                                                                                                                                                        | No. . . . .            | Free          |                                    | 35% |
| 8422.30                |                      | Machinery for filling, closing, sealing or labeling bottles, cans, boxes, bags or other containers; machinery for capsuling bottles, jars, tubes and similar containers; machinery for aerating beverages:                                                                                                                                                                                    |                        |               |                                    |     |
| 8422.30.11             | 00                   | Can-sealing machines . . . . .                                                                                                                                                                                                                                                                                                                                                                | No. . . . .            | Free          |                                    | 30% |
| 8422.30.91             | 10                   | Other . . . . .                                                                                                                                                                                                                                                                                                                                                                               | No. . . . .            | Free          |                                    | 35% |
|                        | 20                   | Machines for aerating beverages . . . . .                                                                                                                                                                                                                                                                                                                                                     | No. . . . .            |               |                                    |     |
|                        | 30                   | Labeling machines . . . . .                                                                                                                                                                                                                                                                                                                                                                   | No. . . . .            |               |                                    |     |
|                        | 40                   | Other:                                                                                                                                                                                                                                                                                                                                                                                        |                        |               |                                    |     |
|                        | 50                   | Machinery for filling, closing, sealing, capsuling or labeling bottles, cans or similar containers:                                                                                                                                                                                                                                                                                           |                        |               |                                    |     |
|                        | 60                   | Machines for filling, whether or not capable of performing other operations:                                                                                                                                                                                                                                                                                                                  |                        |               |                                    |     |
|                        | 70                   | Vacuum or gas packaging . . . . .                                                                                                                                                                                                                                                                                                                                                             | No. . . . .            |               |                                    |     |
|                        | 80                   | Other . . . . .                                                                                                                                                                                                                                                                                                                                                                               | No. . . . .            |               |                                    |     |
|                        | 90                   | Machines which perform only the following operations: capping, lidding, sealing or closing:                                                                                                                                                                                                                                                                                                   |                        |               |                                    |     |
|                        | 00                   | Vacuum or gas packaging . . . . .                                                                                                                                                                                                                                                                                                                                                             | No. . . . .            |               |                                    |     |
|                        | 10                   | Other . . . . .                                                                                                                                                                                                                                                                                                                                                                               | No. . . . .            |               |                                    |     |
|                        | 20                   | Other . . . . .                                                                                                                                                                                                                                                                                                                                                                               | No. . . . .            |               |                                    |     |
| 8422.40                | 80                   | Machinery for filling, closing, sealing, capsuling or labeling boxes, bags or similar containers:                                                                                                                                                                                                                                                                                             |                        |               |                                    |     |
|                        | 90                   | Machines for opening, filling and closing bags . . . . .                                                                                                                                                                                                                                                                                                                                      | No. . . . .            |               |                                    |     |
| 8422.40.11             | 90                   | Other . . . . .                                                                                                                                                                                                                                                                                                                                                                               | No. . . . .            |               |                                    |     |
| 8422.40.91             | 10                   | Other packing or wrapping machinery (including heat-shrink wrapping machinery):                                                                                                                                                                                                                                                                                                               |                        |               |                                    |     |
|                        | 20                   | Machines for packaging pipe tobacco; machines for wrapping candy; machines for wrapping cigarette packages; and combination candy cutting and wrapping machines . . . . .                                                                                                                                                                                                                     | No. . . . .            | Free          |                                    | 35% |
|                        | 30                   | Machines for wrapping candy . . . . .                                                                                                                                                                                                                                                                                                                                                         | No. . . . .            |               |                                    |     |
|                        | 40                   | Other . . . . .                                                                                                                                                                                                                                                                                                                                                                               | No. . . . .            |               |                                    |     |
|                        | 50                   | Other . . . . .                                                                                                                                                                                                                                                                                                                                                                               | No. . . . .            | Free          |                                    | 35% |
|                        | 60                   | Strapping machines . . . . .                                                                                                                                                                                                                                                                                                                                                                  | No. . . . .            |               |                                    |     |
|                        | 70                   | Other . . . . .                                                                                                                                                                                                                                                                                                                                                                               | No. . . . .            |               |                                    |     |

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| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                                                                                                                                                                                                                                                                                                                  | Unit<br>of<br>Quantity | Rates of Duty |         |     |
|------------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------|---------|-----|
|                        |                      |                                                                                                                                                                                                                                                                                                                                                                                                      |                        | 1             |         | 2   |
|                        |                      |                                                                                                                                                                                                                                                                                                                                                                                                      |                        | General       | Special |     |
| 8422<br>(con.)         |                      | Dishwashing machines; machinery for cleaning or drying bottles or other containers; machinery for filling, closing, sealing or labeling bottles, cans, boxes, bags or other containers; machinery for capsuling bottles, jars, tubes and similar containers; other packing or wrapping machinery (including heat-shrink wrapping machinery); machinery for aerating beverages; parts thereof (con.): |                        |               |         |     |
| 8422.90                |                      | Parts:                                                                                                                                                                                                                                                                                                                                                                                               |                        |               |         |     |
|                        |                      | Of dishwashing machines:                                                                                                                                                                                                                                                                                                                                                                             |                        |               |         |     |
| 8422.90.02             | 00                   | Water containment chambers for the dishwashing machines of subheading 8422.11 and other parts of dishwashing machines of the household type incorporating water containment chambers . . . . .                                                                                                                                                                                                       | X                      | Free          |         | 35% |
| 8422.90.04             | 00                   | Door assemblies for the dishwashing machines of subheading 8422.11 . . . . .                                                                                                                                                                                                                                                                                                                         | X                      | Free          |         | 35% |
| 8422.90.06             |                      | Other . . . . .                                                                                                                                                                                                                                                                                                                                                                                      |                        | Free          |         | 35% |
|                        | 40                   | Of the household type . . . . .                                                                                                                                                                                                                                                                                                                                                                      | X                      |               |         |     |
|                        | 80                   | Other . . . . .                                                                                                                                                                                                                                                                                                                                                                                      | X                      |               |         |     |
| 8422.90.11             | 00                   | Of can-sealing machines . . . . .                                                                                                                                                                                                                                                                                                                                                                    | X                      | Free          |         | 30% |
| 8422.90.21             | 00                   | Of machines for packaging pipe tobacco, wrapping candy or wrapping cigarette packages, and of combination candy cutting and wrapping machines . . . . .                                                                                                                                                                                                                                              | X                      | Free          |         | 35% |
| 8422.90.91             |                      | Other . . . . .                                                                                                                                                                                                                                                                                                                                                                                      |                        | Free          |         | 35% |
|                        | 20                   | Of machinery for cleaning or drying bottles or other containers . . . . .                                                                                                                                                                                                                                                                                                                            | X                      |               |         |     |
|                        |                      | Other:                                                                                                                                                                                                                                                                                                                                                                                               |                        |               |         |     |
|                        | 30                   | Of strapping machines . . . . .                                                                                                                                                                                                                                                                                                                                                                      | X                      |               |         |     |
|                        | 60                   | Of other wrapping and packaging machines . . . . .                                                                                                                                                                                                                                                                                                                                                   | X                      |               |         |     |
|                        | 95                   | Other . . . . .                                                                                                                                                                                                                                                                                                                                                                                      | X                      |               |         |     |



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| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                                                                                                                      | Unit<br>of<br>Quantity | Rates of Duty |                                |     |
|------------------------|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------|--------------------------------|-----|
|                        |                      |                                                                                                                                                                                                          |                        | 1             |                                | 2   |
|                        |                      |                                                                                                                                                                                                          |                        | General       | Special                        |     |
| 8423                   |                      | Weighing machinery (excluding balances of a sensitivity of 5 cg or better), including weight-operated counting or checking machines; weighing machine weights of all kinds; parts of weighing machinery: |                        |               |                                |     |
| 8423.10.00             |                      | Personal weighing machines, including baby scales; household scales                                                                                                                                      |                        | Free          |                                | 45% |
|                        | 10                   | Digital electronic type                                                                                                                                                                                  | No.                    |               |                                |     |
|                        | 30                   | Other:                                                                                                                                                                                                   |                        |               |                                |     |
|                        | 60                   | Of a kind suitable for carrying on the person                                                                                                                                                            | No.                    |               |                                |     |
|                        | 60                   | Other                                                                                                                                                                                                    | No.                    |               |                                |     |
| 8423.20.00             | 00                   | Scales for continuous weighing of goods on conveyors                                                                                                                                                     | No.                    | 2.9%          | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 45% |
| 8423.30.00             | 00                   | Constant-weight scales and scales for discharging a predetermined weight of material into a bag or container, including hopper scales                                                                    | No.                    | Free          |                                | 45% |
| 8423.81.00             |                      | Other weighing machinery:<br>Having a maximum weighing capacity not exceeding 30 kg                                                                                                                      |                        | Free          |                                | 45% |
|                        | 10                   | Digital electronic type:                                                                                                                                                                                 |                        |               |                                |     |
|                        | 20                   | Counting scales                                                                                                                                                                                          | No.                    |               |                                |     |
|                        | 30                   | Retail scales, non-computing                                                                                                                                                                             | No.                    |               |                                |     |
|                        | 40                   | Retail scales, computing                                                                                                                                                                                 | No.                    |               |                                |     |
|                        | 50                   | Other                                                                                                                                                                                                    | No.                    |               |                                |     |
| 8423.82.00             |                      | Having a maximum weighing capacity exceeding 30 kg but not exceeding 5,000 kg                                                                                                                            |                        | Free          |                                | 45% |
|                        | 10                   | Digital electronic type                                                                                                                                                                                  | No.                    |               |                                |     |
|                        | 50                   | Other                                                                                                                                                                                                    | No.                    |               |                                |     |
| 8423.89.00             |                      | Other                                                                                                                                                                                                    |                        | 2.9%          | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 45% |
|                        | 10                   | Digital electronic type                                                                                                                                                                                  | No.                    |               |                                |     |
|                        | 50                   | Other                                                                                                                                                                                                    | No.                    |               |                                |     |
| 8423.90.00             |                      | Weighing machine weights of all kinds; parts of weighing machinery                                                                                                                                       |                        | 2.8%          | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 45% |
|                        | 40                   | Digital weight indicators                                                                                                                                                                                | No.                    |               |                                |     |
|                        | 80                   | Other                                                                                                                                                                                                    | X                      |               |                                |     |

# Harmonized Tariff Schedule of the United States (2004)

Annotated for Statistical Reporting Purposes

XVI  
84-30

| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                                                                                                                                                                                                                                                    | Unit<br>of<br>Quantity | Rates of Duty |                                    |      |
|------------------------|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------|------------------------------------|------|
|                        |                      |                                                                                                                                                                                                                                                                                                                                        |                        | 1             |                                    | 2    |
|                        |                      |                                                                                                                                                                                                                                                                                                                                        |                        | General       | Special                            |      |
| 8424                   |                      | Mechanical appliances (whether or not hand operated) for projecting, dispersing or spraying liquids or powders; fire extinguishers, whether or not charged; spray guns and similar appliances; steam or sand blasting machines and similar jet projecting machines; parts thereof:                                                     |                        |               |                                    |      |
| 8424.10.00             | 00                   | Fire extinguishers, whether or not charged . . . . .                                                                                                                                                                                                                                                                                   | No. . . . .            | Free          |                                    | 35%  |
| 8424.20                |                      | Spray guns and similar appliances:                                                                                                                                                                                                                                                                                                     |                        |               |                                    |      |
| 8424.20.10             | 00                   | Simple piston pump sprays and powder bellows . . X . . . . .                                                                                                                                                                                                                                                                           | X . . . . .            | 2.9%          | Free (A,B,CA,CL, E,IL,J,JO,MX, SG) | 45%  |
| 8424.20.90             | 00                   | Other . . . . .                                                                                                                                                                                                                                                                                                                        | X . . . . .            | Free          |                                    | 35%  |
| 8424.30                |                      | Steam or sand blasting machines and similar jet projecting machines:                                                                                                                                                                                                                                                                   |                        |               |                                    |      |
| 8424.30.10             | 00                   | Sand blasting machines . . . . .                                                                                                                                                                                                                                                                                                       | No. . . . .            | Free          |                                    | Free |
| 8424.30.90             | 00                   | Other . . . . .                                                                                                                                                                                                                                                                                                                        | X . . . . .            | Free          |                                    | 35%  |
|                        |                      | Other appliances:                                                                                                                                                                                                                                                                                                                      |                        |               |                                    |      |
| 8424.81                |                      | Agricultural or horticultural:                                                                                                                                                                                                                                                                                                         |                        |               |                                    |      |
| 8424.81.10             | 00                   | Sprayers (except sprayers, self-contained, having a capacity not over 20 liters) . . . . . X . . . . .                                                                                                                                                                                                                                 | X . . . . .            | Free          |                                    | Free |
| 8424.81.90             |                      | Other . . . . .                                                                                                                                                                                                                                                                                                                        |                        | 2.4%          | Free (A,CA,CL,E, IL,J,JO,MX,SG)    | 35%  |
|                        |                      | Irrigation equipment:                                                                                                                                                                                                                                                                                                                  |                        |               |                                    |      |
|                        | 10                   | Self-propelled, center pivot . . . . .                                                                                                                                                                                                                                                                                                 | No.                    |               |                                    |      |
|                        | 20                   | Other . . . . .                                                                                                                                                                                                                                                                                                                        | No.                    |               |                                    |      |
|                        |                      | Other:                                                                                                                                                                                                                                                                                                                                 |                        |               |                                    |      |
|                        | 40                   | Sprayers, self-contained, having a capacity not over 20 liters . . . . .                                                                                                                                                                                                                                                               | No.                    |               |                                    |      |
|                        | 90                   | Other . . . . .                                                                                                                                                                                                                                                                                                                        | No.                    |               |                                    |      |
| 8424.89                |                      | Other:                                                                                                                                                                                                                                                                                                                                 |                        |               |                                    |      |
| 8424.89.30             | 00                   | Spraying appliances for etching, stripping or cleaning semiconductor wafers . . . . .                                                                                                                                                                                                                                                  | No. . . . .            | Free          |                                    | 35%  |
| 8424.89.50             | 00                   | Spraying appliances for developing semiconductor wafers; spraying appliances for etching, developing, stripping or cleaning flat panel displays; deflash machines for cleaning and removing contaminants from the metal leads of semiconductor packages prior to the electroplating process (deflash by high pressure spray) . . . . . | No. . . . .            | Free          |                                    | 35%  |
| 8424.89.70             |                      | Other . . . . .                                                                                                                                                                                                                                                                                                                        |                        | 1.8%          | Free (A,B,CA,CL, E,IL,J,JO,MX, SG) | 35%  |
|                        | 10                   | Sprinkler systems (fire extinguishing equipment) . . . . .                                                                                                                                                                                                                                                                             | No.                    |               |                                    |      |
|                        | 90                   | Other . . . . .                                                                                                                                                                                                                                                                                                                        | No.                    |               |                                    |      |
| 8424.90                |                      | Parts:                                                                                                                                                                                                                                                                                                                                 |                        |               |                                    |      |
| 8424.90.05             | 00                   | Of fire extinguishers . . . . .                                                                                                                                                                                                                                                                                                        | X . . . . .            | Free          |                                    | 35%  |
| 8424.90.10             | 00                   | Of simple piston pump sprays and powder bellows . . . . .                                                                                                                                                                                                                                                                              | X . . . . .            | 2.9%          | Free (A,B,CA,CL, E,IL,J,JO,MX, SG) | 45%  |
| 8424.90.20             | 00                   | Of sand blasting machines . . . . .                                                                                                                                                                                                                                                                                                    | X . . . . .            | Free          |                                    | Free |
| 8424.90.90             |                      | Other . . . . .                                                                                                                                                                                                                                                                                                                        |                        | Free          |                                    | 35%  |
|                        | 40                   | Of steam and similar jet projecting machines . . X                                                                                                                                                                                                                                                                                     | X                      |               |                                    |      |
|                        | 80                   | Other . . . . .                                                                                                                                                                                                                                                                                                                        | X                      |               |                                    |      |

# Harmonized Tariff Schedule of the United States (2004)

Annotated for Statistical Reporting Purposes

XVI  
84-31

| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                                             | Unit<br>of<br>Quantity | Rates of Duty |         |     |
|------------------------|----------------------|---------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------|---------|-----|
|                        |                      |                                                                                                                                 |                        | 1             |         | 2   |
|                        |                      |                                                                                                                                 |                        | General       | Special |     |
| 8425                   |                      | Pulley tackle and hoists other than skip hoists; winches and capstans; jacks:                                                   |                        |               |         |     |
|                        |                      | Pulley tackle and hoists other than skip hoists or hoists of a kind used for raising vehicles:                                  |                        |               |         |     |
| 8425.11.00             | 00                   | Powered by electric motor . . . . .                                                                                             | No . . . . .           | Free          |         | 35% |
| 8425.19.00             | 00                   | Other . . . . .                                                                                                                 | No. . . . .            | Free          |         | 35% |
| 8425.20.00             | 00                   | Pit-head winding gear; winches specially designed for use underground . . . . .                                                 | No. . . . .            | Free          |         | 35% |
|                        |                      | Other winches; capstans:                                                                                                        |                        |               |         |     |
| 8425.31.00             | 00                   | Powered by electric motor . . . . .                                                                                             | No . . . . .           | Free          |         | 35% |
| 8425.39.00             | 00                   | Other . . . . .                                                                                                                 | No. . . . .            | Free          |         | 35% |
|                        |                      | Jacks; hoists of a kind used for raising vehicles:                                                                              |                        |               |         |     |
| 8425.41.00             | 00                   | Built-in jacking systems of a type used in garages . . . . .                                                                    | No. . . . .            | Free          |         | 35% |
| 8425.42.00             | 00                   | Other jacks and hoists, hydraulic . . . . .                                                                                     | No. . . . .            | Free          |         | 35% |
| 8425.49.00             | 00                   | Other . . . . .                                                                                                                 | No. . . . .            | Free          |         | 35% |
| 8426                   |                      | Ships' derricks; cranes, including cable cranes; mobile lifting frames, straddle carriers and works trucks fitted with a crane: |                        |               |         |     |
|                        |                      | Overhead traveling cranes, transporter cranes, gantry cranes, bridge cranes, mobile lifting frames and straddle carriers:       |                        |               |         |     |
| 8426.11.00             | 00                   | Overhead traveling cranes on fixed support . . . . .                                                                            | No. . . . .            | Free          |         | 35% |
| 8426.12.00             | 00                   | Mobile lifting frames on tires and straddle carriers . . . . .                                                                  | No. . . . .            | Free          |         | 35% |
| 8426.19.00             | 00                   | Other . . . . .                                                                                                                 | No. . . . .            | Free          |         | 35% |
| 8426.20.00             | 00                   | Tower cranes . . . . .                                                                                                          | No. . . . .            | Free          |         | 35% |
| 8426.30.00             | 00                   | Portal or pedestal jib cranes . . . . .                                                                                         | No. . . . .            | Free          |         | 35% |
|                        |                      | Other machinery, self-propelled:                                                                                                |                        |               |         |     |
| 8426.41.00             |                      | On tires . . . . .                                                                                                              |                        | Free          |         | 35% |
|                        | 05                   | Works trucks fitted with a crane . . . . .                                                                                      | No.                    |               |         |     |
|                        |                      | Other:                                                                                                                          |                        |               |         |     |
|                        | 10                   | Cable operated . . . . .                                                                                                        | No.                    |               |         |     |
|                        | 90                   | Other . . . . .                                                                                                                 | No.                    |               |         |     |
| 8426.49.00             |                      | Other . . . . .                                                                                                                 |                        | Free          |         | 35% |
|                        | 10                   | Cable operated . . . . .                                                                                                        | No.                    |               |         |     |
|                        | 90                   | Other . . . . .                                                                                                                 | No.                    |               |         |     |
|                        |                      | Other machinery:                                                                                                                |                        |               |         |     |
| 8426.91.00             | 00                   | Designed for mounting on road vehicles . . . . .                                                                                | No. . . . .            | Free          |         | 35% |
| 8426.99.00             | 00                   | Other . . . . .                                                                                                                 | No. . . . .            | Free          |         | 35% |
| 8427                   |                      | Fork-lift trucks; other works trucks fitted with lifting or handling equipment:                                                 |                        |               |         |     |
|                        |                      | Self-propelled trucks powered by an electric motor:                                                                             |                        |               |         |     |
| 8427.10                |                      | Rider-type, counterbalanced fork-lift trucks . . . . .                                                                          | No. . . . .            | Free          |         | 35% |
| 8427.10.40             | 00                   | Other . . . . .                                                                                                                 |                        | Free          |         | 35% |
| 8427.10.80             |                      | Operator riding . . . . .                                                                                                       | No.                    |               |         |     |
|                        | 60                   | Automated guided vehicle (AGV) . . . . .                                                                                        | No.                    |               |         |     |
|                        | 90                   | Other . . . . .                                                                                                                 | No.                    |               |         |     |
|                        |                      | Other self-propelled trucks:                                                                                                    |                        |               |         |     |
| 8427.20                |                      | Rider-type, counterbalanced fork-lift trucks . . . . .                                                                          | No. . . . .            | Free          |         | 35% |
| 8427.20.40             | 00                   | Other . . . . .                                                                                                                 | No. . . . .            | Free          |         | 35% |
| 8427.20.80             | 00                   | Other trucks . . . . .                                                                                                          | No. . . . .            | Free          |         | 35% |

# Harmonized Tariff Schedule of the United States (2004)

Annotated for Statistical Reporting Purposes

XVI  
84-32

| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                                         | Unit<br>of<br>Quantity | Rates of Duty |         |   |
|------------------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------|------------------------|---------------|---------|---|
|                        |                      |                                                                                                                             |                        | 1             |         | 2 |
|                        |                      |                                                                                                                             |                        | General       | Special |   |
| 8428                   |                      | Other lifting, handling, loading or unloading machinery<br>(for example, elevators, escalators, conveyors, teleferics):     |                        |               |         |   |
| 8428.10.00             | 00                   | Passenger or freight elevators other than continuous<br>action; skip hoists . . . . .                                       | No. . . . .            | Free          | 35%     |   |
| 8428.20.00             |                      | Pneumatic elevators and conveyors . . . . .                                                                                 |                        | Free          | 35%     |   |
|                        | 10                   | Conveyors . . . . .                                                                                                         | No.                    |               |         |   |
|                        | 50                   | Elevators . . . . .                                                                                                         | No.                    |               |         |   |
|                        |                      | Other continuous-action elevators and conveyors,<br>for goods or materials:                                                 |                        |               |         |   |
| 8428.31.00             | 00                   | Specially designed for underground use . . . . .                                                                            | No. . . . .            | Free          | 35%     |   |
| 8428.32.00             | 00                   | Other, bucket type . . . . .                                                                                                | No. . . . .            | Free          | 35%     |   |
| 8428.33.00             | 00                   | Other, belt type . . . . .                                                                                                  | No. . . . .            | Free          | 35%     |   |
| 8428.39.00             | 00                   | Other . . . . .                                                                                                             | No. . . . .            | Free          | 35%     |   |
| 8428.40.00             | 00                   | Escalators and moving walkways . . . . .                                                                                    | No. . . . .            | Free          | 35%     |   |
| 8428.50.00             | 00                   | Mine wagon pushers, locomotive or wagon tracers,<br>wagon tippers and similar railway wagon handling<br>equipment . . . . . | No. . . . .            | Free          | 35%     |   |
| 8428.60.00             | 00                   | Teleferics, chair lifts, ski draglines; traction<br>mechanisms for funiculars . . . . .                                     | No. . . . .            | Free          | 35%     |   |
| 8428.90.00             |                      | Other machinery . . . . .                                                                                                   |                        | Free          | 35%     |   |
|                        | 02                   | Of a kind used in charging or discharging furnaces                                                                          | No.                    |               |         |   |
|                        | 04                   | Of a kind used for radioactive materials . . . . .                                                                          | No.                    |               |         |   |
|                        | 06                   | Woodland log handling equipment (other than<br>skidders) . . . . .                                                          | No.                    |               |         |   |
|                        |                      | Other:                                                                                                                      |                        |               |         |   |
|                        | 10                   | Industrial robots . . . . .                                                                                                 | No.                    |               |         |   |
|                        | 20                   | Oil and gas field machinery . . . . .                                                                                       | No.                    |               |         |   |
|                        | 30                   | Sidebooms and pipehandlers . . . . .                                                                                        | No.                    |               |         |   |
|                        | 40                   | Loaders, underground mine type . . . . .                                                                                    | No.                    |               |         |   |
|                        | 90                   | Other . . . . .                                                                                                             | No.                    |               |         |   |

# Harmonized Tariff Schedule of the United States (2004)

Annotated for Statistical Reporting Purposes

XVI  
84-33

| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                                                                     | Unit<br>of<br>Quantity | Rates of Duty |         |     |
|------------------------|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------|---------|-----|
|                        |                      |                                                                                                                                                         |                        | 1             |         | 2   |
|                        |                      |                                                                                                                                                         |                        | General       | Special |     |
| 8429                   |                      | Self-propelled bulldozers, angledozers, graders, levelers, scrapers, mechanical shovels, excavators, shovel loaders, tamping machines and road rollers: |                        |               |         |     |
| 8429.11.00             |                      | Bulldozers and angledozers:                                                                                                                             |                        |               |         |     |
|                        |                      | Track laying                                                                                                                                            |                        | Free          |         | 35% |
|                        | 10                   | New                                                                                                                                                     | No.                    |               |         |     |
|                        | 90                   | Used or rebuilt                                                                                                                                         | No.                    |               |         |     |
| 8429.19.00             |                      | Other                                                                                                                                                   |                        | Free          |         | 35% |
|                        | 10                   | New                                                                                                                                                     | No.                    |               |         |     |
|                        | 90                   | Used or rebuilt                                                                                                                                         | No.                    |               |         |     |
| 8429.20.00             | 00                   | Graders and levelers                                                                                                                                    | No.                    | Free          |         | 35% |
| 8429.30.00             |                      | Scrapers                                                                                                                                                |                        | Free          |         | 35% |
|                        |                      | New:                                                                                                                                                    |                        |               |         |     |
|                        | 20                   | Not exceeding 13.7 m <sup>3</sup>                                                                                                                       | No.                    |               |         |     |
|                        | 40                   | Exceeding 13.7 m <sup>3</sup>                                                                                                                           | No.                    |               |         |     |
|                        | 60                   | Used or rebuilt                                                                                                                                         | No.                    |               |         |     |
| 8429.40.00             |                      | Tamping machines and road rollers                                                                                                                       |                        | Free          |         | 35% |
|                        |                      | New:                                                                                                                                                    |                        |               |         |     |
|                        | 20                   | Vibratory                                                                                                                                               | No.                    |               |         |     |
|                        | 40                   | Other                                                                                                                                                   | No.                    |               |         |     |
|                        | 60                   | Used or rebuilt                                                                                                                                         | No.                    |               |         |     |
| 8429.51                |                      | Mechanical shovels, excavators and shovel loaders:                                                                                                      |                        |               |         |     |
| 8429.51.10             |                      | Front-end shovel loaders:                                                                                                                               |                        |               |         |     |
|                        |                      | Wheel-type                                                                                                                                              |                        | Free          |         | 35% |
|                        |                      | New:                                                                                                                                                    |                        |               |         |     |
|                        |                      | Integral tractor shovel loaders, rear engine mounted:                                                                                                   |                        |               |         |     |
|                        | 05                   | 2 wheel drive                                                                                                                                           | No.                    |               |         |     |
|                        |                      | 4 wheel drive with a bucket capacity of:                                                                                                                |                        |               |         |     |
|                        | 15                   | Under 1.5 m <sup>3</sup>                                                                                                                                | No.                    |               |         |     |
|                        | 25                   | At least 1.5 m <sup>3</sup> but under 2.2 m <sup>3</sup>                                                                                                | No.                    |               |         |     |
|                        | 30                   | At least 2.2 m <sup>3</sup> but under 2.9 m <sup>3</sup>                                                                                                | No.                    |               |         |     |
|                        | 35                   | At least 2.9 m <sup>3</sup> but under 3.8 m <sup>3</sup>                                                                                                | No.                    |               |         |     |
|                        | 40                   | At least 3.8 m <sup>3</sup> but under 5.2 m <sup>3</sup>                                                                                                | No.                    |               |         |     |
|                        | 45                   | At least 5.2 m <sup>3</sup> but under 7.6 m <sup>3</sup>                                                                                                | No.                    |               |         |     |
|                        | 50                   | At least 7.6 m <sup>3</sup> but under 11.4 m <sup>3</sup>                                                                                               | No.                    |               |         |     |
|                        | 55                   | 11.4 m <sup>3</sup> and over                                                                                                                            | No.                    |               |         |     |
|                        | 60                   | Other                                                                                                                                                   | No.                    |               |         |     |
|                        | 65                   | Used or rebuilt                                                                                                                                         | No.                    |               |         |     |
| 8429.51.50             |                      | Other                                                                                                                                                   |                        | Free          |         | 35% |
|                        |                      | New:                                                                                                                                                    |                        |               |         |     |
|                        | 10                   | Less than 44.7 kW                                                                                                                                       | No.                    |               |         |     |
|                        | 20                   | At least 44.7 kW but under 67.1 kW                                                                                                                      | No.                    |               |         |     |
|                        | 30                   | At least 67.1 kW but under 93.2 kW                                                                                                                      | No.                    |               |         |     |
|                        | 40                   | At least 93.2 kW but under 119.3 kW                                                                                                                     | No.                    |               |         |     |
|                        | 50                   | 119.3 kW and over                                                                                                                                       | No.                    |               |         |     |
|                        | 60                   | Used or rebuilt                                                                                                                                         | No.                    |               |         |     |

# Harmonized Tariff Schedule of the United States (2004)

Annotated for Statistical Reporting Purposes

XVI  
84-34

| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                                                                            | Unit<br>of<br>Quantity | Rates of Duty |         |     |
|------------------------|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------|---------|-----|
|                        |                      |                                                                                                                                                                |                        | 1             |         | 2   |
|                        |                      |                                                                                                                                                                |                        | General       | Special |     |
| 8429<br>(con.)         |                      | Self-propelled bulldozers, angledozers, graders, levelers, scrapers, mechanical shovels, excavators, shovel loaders, tamping machines and road rollers (con.): |                        |               |         |     |
| 8429.52                |                      | Mechanical shovels, excavators and shovel loaders (con.):                                                                                                      |                        |               |         |     |
| 8429.52.10             |                      | Machinery with a 360° revolving superstructure:                                                                                                                |                        |               |         |     |
|                        |                      | Backhoes, shovels, clamshells and draglines . . . . .                                                                                                          |                        | Free          |         | 35% |
|                        |                      | New:                                                                                                                                                           |                        |               |         |     |
|                        |                      | Crawler mounted:                                                                                                                                               |                        |               |         |     |
|                        | 10                   | Hydraulic . . . . .                                                                                                                                            | No.                    |               |         |     |
|                        | 20                   | Other . . . . .                                                                                                                                                | No.                    |               |         |     |
|                        |                      | Other:                                                                                                                                                         |                        |               |         |     |
|                        | 30                   | Hydraulic . . . . .                                                                                                                                            | No.                    |               |         |     |
|                        | 40                   | Other . . . . .                                                                                                                                                | No.                    |               |         |     |
|                        | 50                   | Used or rebuilt . . . . .                                                                                                                                      | No.                    |               |         |     |
| 8429.52.50             |                      | Other . . . . .                                                                                                                                                |                        | Free          |         | 35% |
|                        | 10                   | New . . . . .                                                                                                                                                  | No.                    |               |         |     |
|                        | 90                   | Used or rebuilt . . . . .                                                                                                                                      | No.                    |               |         |     |
| 8429.59                |                      | Other:                                                                                                                                                         |                        |               |         |     |
| 8429.59.10             |                      | Backhoes, shovels, clamshells and draglines . . . . .                                                                                                          |                        | Free          |         | 35% |
|                        |                      | New:                                                                                                                                                           |                        |               |         |     |
|                        | 30                   | Backhoes . . . . .                                                                                                                                             | No.                    |               |         |     |
|                        | 60                   | Other . . . . .                                                                                                                                                | No.                    |               |         |     |
|                        | 90                   | Used or rebuilt . . . . .                                                                                                                                      | No.                    |               |         |     |
| 8429.59.50             |                      | Other . . . . .                                                                                                                                                |                        | Free          |         | 35% |
|                        |                      | New:                                                                                                                                                           |                        |               |         |     |
|                        |                      | Ditchers and trenchers:                                                                                                                                        |                        |               |         |     |
|                        | 20                   | Ladder type . . . . .                                                                                                                                          | No.                    |               |         |     |
|                        | 40                   | Other . . . . .                                                                                                                                                | No.                    |               |         |     |
|                        | 60                   | Other . . . . .                                                                                                                                                | No.                    |               |         |     |
|                        | 80                   | Used or rebuilt . . . . .                                                                                                                                      | No.                    |               |         |     |

# Harmonized Tariff Schedule of the United States (2004)

Annotated for Statistical Reporting Purposes

XVI  
84-35

| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                                                                                                                   | Unit<br>of<br>Quantity | Rates of Duty |         |     |
|------------------------|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------|---------|-----|
|                        |                      |                                                                                                                                                                                                       |                        | 1             |         | 2   |
|                        |                      |                                                                                                                                                                                                       |                        | General       | Special |     |
| 8430                   |                      | Other moving, grading, leveling, scraping, excavating, tamping, compacting, extracting or boring machinery, for earth, minerals or ores; pile-drivers and pile-extractors; snowplows and snowblowers: |                        |               |         |     |
| 8430.10.00             | 00                   | Pile-drivers and pile-extractors . . . . .                                                                                                                                                            | No. . . . .            | Free          |         | 35% |
| 8430.20.00             |                      | Snowplows and snowblowers . . . . .                                                                                                                                                                   |                        | Free          |         | 35% |
|                        |                      | Snowblowers:                                                                                                                                                                                          |                        |               |         |     |
|                        | 30                   | Attachment type . . . . .                                                                                                                                                                             | No.                    |               |         |     |
|                        | 60                   | Other . . . . .                                                                                                                                                                                       | No.                    |               |         |     |
|                        | 90                   | Other . . . . .                                                                                                                                                                                       | No.                    |               |         |     |
|                        |                      | Coal or rock cutters and tunneling machinery:                                                                                                                                                         |                        |               |         |     |
| 8430.31.00             |                      | Self-propelled . . . . .                                                                                                                                                                              |                        | Free          |         | 35% |
|                        | 40                   | Rock breaking machines . . . . .                                                                                                                                                                      | No.                    |               |         |     |
|                        | 80                   | Other . . . . .                                                                                                                                                                                       | No.                    |               |         |     |
| 8430.39.00             |                      | Other . . . . .                                                                                                                                                                                       |                        | Free          |         | 35% |
|                        | 40                   | Rock breaking machines . . . . .                                                                                                                                                                      | No.                    |               |         |     |
|                        | 80                   | Other . . . . .                                                                                                                                                                                       | No.                    |               |         |     |
|                        |                      | Other boring or sinking machinery:                                                                                                                                                                    |                        |               |         |     |
| 8430.41.00             | 00                   | Self-propelled . . . . .                                                                                                                                                                              | No. . . . .            | Free          |         | 35% |
| 8430.49                |                      | Other:                                                                                                                                                                                                |                        |               |         |     |
| 8430.49.40             | 00                   | Offshore oil and natural gas drilling and production platforms . . . . .                                                                                                                              | kg . . . . .           | Free          |         | 45% |
| 8430.49.80             |                      | Other . . . . .                                                                                                                                                                                       |                        | Free          |         | 35% |
|                        |                      | For oil well and gas field drilling:                                                                                                                                                                  |                        |               |         |     |
|                        | 10                   | Rotary . . . . .                                                                                                                                                                                      | No.                    |               |         |     |
|                        | 20                   | Other . . . . .                                                                                                                                                                                       | No.                    |               |         |     |
|                        |                      | For water well drilling:                                                                                                                                                                              |                        |               |         |     |
|                        | 30                   | Rotary . . . . .                                                                                                                                                                                      | No.                    |               |         |     |
|                        | 40                   | Other . . . . .                                                                                                                                                                                       | No.                    |               |         |     |
|                        | 50                   | Other . . . . .                                                                                                                                                                                       | No.                    |               |         |     |
| 8430.50                |                      | Other machinery, self-propelled:                                                                                                                                                                      |                        |               |         |     |
| 8430.50.10             | 00                   | Peat excavators . . . . .                                                                                                                                                                             | No. . . . .            | Free          |         | 35% |
| 8430.50.50             | 00                   | Other . . . . .                                                                                                                                                                                       | No. . . . .            | Free          |         | 35% |
|                        |                      | Other machinery, not self-propelled:                                                                                                                                                                  |                        |               |         |     |
| 8430.61.00             | 00                   | Tamping or compacting machinery . . . . .                                                                                                                                                             | No. . . . .            | Free          |         | 35% |
| 8430.69.01             | 00                   | Other . . . . .                                                                                                                                                                                       | No. . . . .            | Free          |         | 35% |

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Annotated for Statistical Reporting Purposes

XVI  
84-36

| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                             | Unit<br>of<br>Quantity | Rates of Duty |         |     |
|------------------------|----------------------|-------------------------------------------------------------------------------------------------|------------------------|---------------|---------|-----|
|                        |                      |                                                                                                 |                        | 1             |         | 2   |
|                        |                      |                                                                                                 |                        | General       | Special |     |
| 8431                   |                      | Parts suitable for use solely or principally with the machinery of headings 8425 to 8430:       |                        |               |         |     |
| 8431.10.00             |                      | Of machinery of heading 8425 .....                                                              |                        | Free          |         | 35% |
|                        | 10                   | Of machinery of subheading 8425.11 or 8425.19 ..                                                | X                      |               |         |     |
|                        | 90                   | Other .....                                                                                     | X                      |               |         |     |
| 8431.20.00             | 00                   | Of machinery of heading 8427 .....                                                              | X                      | Free          |         | 35% |
| 8431.31.00             |                      | Of machinery of heading 8428:                                                                   |                        |               |         |     |
|                        |                      | Of passenger or freight elevators other than continuous action, skip hoists or escalators ..... |                        | Free          |         | 35% |
|                        | 20                   | Of skip hoists .....                                                                            | X                      |               |         |     |
|                        | 40                   | Of escalators .....                                                                             | X                      |               |         |     |
|                        | 60                   | Other .....                                                                                     | X                      |               |         |     |
| 8431.39.00             |                      | Other .....                                                                                     |                        | Free          |         | 35% |
|                        | 10                   | Of elevators and conveyors .....                                                                | X                      |               |         |     |
|                        |                      | Other:                                                                                          |                        |               |         |     |
|                        | 50                   | Of oil and gas field machinery .....                                                            | X                      |               |         |     |
|                        | 70                   | Of the woodland log handling equipment of statistical reporting number 8428.90.8006 ..          | X                      |               |         |     |
|                        | 80                   | Other .....                                                                                     | X                      |               |         |     |



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Annotated for Statistical Reporting Purposes

XVI  
84-37

| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                              | Unit<br>of<br>Quantity | Rates of Duty |         |     |
|------------------------|----------------------|--------------------------------------------------------------------------------------------------|------------------------|---------------|---------|-----|
|                        |                      |                                                                                                  |                        | 1             |         | 2   |
|                        |                      |                                                                                                  |                        | General       | Special |     |
| 8431<br>(con.)         |                      | Parts suitable for use solely or principally with the machinery of headings 8425 to 8430 (con.): |                        |               |         |     |
| 8431.41.00             |                      | Of machinery of heading 8426, 8429 or 8430:                                                      |                        |               |         |     |
|                        |                      | Buckets, shovels, grabs and grips .....                                                          |                        | Free          |         | 35% |
|                        | 20                   | Shovel attachments .....                                                                         | No.                    |               |         |     |
|                        | 40                   | Clamshell (grappler) attachments .....                                                           | No.                    |               |         |     |
|                        | 60                   | Dragline buckets .....                                                                           | No.                    |               |         |     |
|                        | 80                   | Other .....                                                                                      | No.                    |               |         |     |
| 8431.42.00             | 00                   | Bulldozer or angledozer blades .....                                                             | No. ....               | Free          |         | 35% |
| 8431.43                |                      | Parts for boring or sinking machinery of subheading 8430.41 or 8430.49:                          |                        |               |         |     |
| 8431.43.40             | 00                   | Of offshore oil and natural gas drilling and productions platforms .....                         | X .....                | Free          |         | 45% |
| 8431.43.80             |                      | Other .....                                                                                      |                        | Free          |         | 35% |
|                        |                      | Of oil and gas field machinery:                                                                  |                        |               |         |     |
|                        | 20                   | Tool joints, whether or not forged .....                                                         | No.                    |               |         |     |
|                        | 40                   | Drill pipe fitted with tool joints .....                                                         | No.                    |               |         |     |
|                        | 60                   | Other .....                                                                                      | X                      |               |         |     |
|                        | 90                   | Of other boring or sinking machinery .....                                                       | X                      |               |         |     |
| 8431.49                |                      | Other:                                                                                           |                        |               |         |     |
| 8431.49.10             |                      | Of machinery of heading 8426 .....                                                               |                        | Free          |         | 35% |
|                        | 10                   | Of machinery of subheadings 8426.11, 8426.19 and 8426.30 .....                                   | X                      |               |         |     |
|                        | 60                   | Of mobile lifting frames, straddle carriers and works trucks fitted with a crane .....           | X                      |               |         |     |
|                        | 90                   | Other .....                                                                                      | X                      |               |         |     |
| 8431.49.90             |                      | Other                                                                                            |                        | Free          |         | 35% |
|                        |                      | Attachments for mounting on machinery:                                                           |                        |               |         |     |
|                        | 05                   | Backhoe attachments .....                                                                        | No.                    |               |         |     |
|                        | 10                   | Front-end loader attachments .....                                                               | No.                    |               |         |     |
|                        | 15                   | Rippers and rooters .....                                                                        | No.                    |               |         |     |
|                        | 20                   | Other .....                                                                                      | No.                    |               |         |     |
|                        |                      | Other:                                                                                           |                        |               |         |     |
|                        |                      | Parts of coal or rock cutters and tunneling machinery:                                           |                        |               |         |     |
|                        | 25                   | Cast axle housings .....                                                                         | No.                    |               |         |     |
|                        | 30                   | Other .....                                                                                      | X                      |               |         |     |
|                        |                      | Parts of backhoes, shovels, clamshells and draglines:                                            |                        |               |         |     |
|                        | 35                   | Cast axle housings .....                                                                         | No.                    |               |         |     |
|                        | 40                   | Other .....                                                                                      | X                      |               |         |     |
|                        |                      | Other:                                                                                           |                        |               |         |     |
|                        | 45                   | Scraper bowls for scrapers of subheadings 8429.30 and 8430.69 .....                              | No.                    |               |         |     |
|                        | 50                   | Track links .....                                                                                | X                      |               |         |     |
|                        | 55                   | Cast axle housings .....                                                                         | No.                    |               |         |     |
|                        | 60                   | Other .....                                                                                      | X                      |               |         |     |

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Annotated for Statistical Reporting Purposes

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84-38

| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                                                  | Unit<br>of<br>Quantity | Rates of Duty |         |      |
|------------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------|---------|------|
|                        |                      |                                                                                                                                      |                        | 1             |         | 2    |
|                        |                      |                                                                                                                                      |                        | General       | Special |      |
| 8432                   |                      | Agricultural, horticultural or forestry machinery for soil preparation or cultivation; lawn or sports ground rollers; parts thereof: |                        |               |         |      |
| 8432.10.00             |                      | Plows                                                                                                                                |                        | Free          |         | Free |
|                        | 20                   | Moldboard plows except listers                                                                                                       | No.                    |               |         |      |
|                        | 40                   | Disc plows                                                                                                                           | No.                    |               |         |      |
|                        | 60                   | Other                                                                                                                                | No.                    |               |         |      |
| 8432.21.00             | 00                   | Harrows, scarifiers, cultivators, weeders and hoes:                                                                                  |                        |               |         |      |
|                        |                      | Disc harrows                                                                                                                         | No.                    | Free          |         | Free |
| 8432.29.00             |                      | Other                                                                                                                                |                        | Free          |         | Free |
|                        |                      | Cultivators, weeders and hoes:                                                                                                       |                        |               |         |      |
|                        | 40                   | Cultivators, tractor drawn or for tractor mounting                                                                                   | No.                    |               |         |      |
|                        | 60                   | Walk behind rotary tillers                                                                                                           | No.                    |               |         |      |
|                        | 80                   | Other                                                                                                                                | No.                    |               |         |      |
|                        | 90                   | Other                                                                                                                                | No.                    |               |         |      |
| 8432.30.00             |                      | Seeders, planters and transplanters                                                                                                  |                        | Free          |         | Free |
|                        | 10                   | Planters and transplanters                                                                                                           | No.                    |               |         |      |
|                        | 90                   | Seeders                                                                                                                              | No.                    |               |         |      |
| 8432.40.00             | 00                   | Manure spreaders and fertilizer distributors                                                                                         | No.                    | Free          |         | Free |
| 8432.80.00             | 00                   | Other machinery                                                                                                                      | No.                    | Free          |         | Free |
| 8432.90.00             |                      | Parts                                                                                                                                |                        | Free          |         | Free |
|                        | 05                   | Of plows                                                                                                                             | X                      |               |         |      |
|                        | 15                   | Of harrows, scarifiers, cultivators, weeders and hoes                                                                                | X                      |               |         |      |
|                        | 30                   | Of seeders, planters, transplanters, manure spreaders and fertilizer distributors                                                    | X                      |               |         |      |
|                        | 80                   | Of other machinery                                                                                                                   | X                      |               |         |      |

# Harmonized Tariff Schedule of the United States (2004)

Annotated for Statistical Reporting Purposes

XVI  
84-39

| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                                                                                                                                                 | Unit<br>of<br>Quantity | Rates of Duty |         |      |
|------------------------|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------|---------|------|
|                        |                      |                                                                                                                                                                                                                                     |                        | 1             |         | 2    |
|                        |                      |                                                                                                                                                                                                                                     |                        | General       | Special |      |
| 8433                   |                      | Harvesting or threshing machinery, including straw or fodder balers; grass or hay mowers; machines for cleaning, sorting or grading eggs, fruit or other agricultural produce, other than machinery of heading 8437; parts thereof: |                        |               |         |      |
| 8433.11.00             |                      | Mowers for lawns, parks or sports grounds:                                                                                                                                                                                          |                        |               |         |      |
|                        | 10                   | Powered, with the cutting device rotating in a horizontal plane                                                                                                                                                                     |                        | Free          |         | 30%  |
|                        |                      | Electric mowers, including battery operated                                                                                                                                                                                         | No.                    |               |         |      |
|                        | 20                   | Riding mowers, other than electric:                                                                                                                                                                                                 |                        |               |         |      |
|                        | 30                   | Under 5.2 kW                                                                                                                                                                                                                        | No.                    |               |         |      |
|                        | 40                   | 5.2 kW and over but under 7.46 kW                                                                                                                                                                                                   | No.                    |               |         |      |
|                        | 50                   | 7.46 kW and over                                                                                                                                                                                                                    | No.                    |               |         |      |
|                        |                      | Other:                                                                                                                                                                                                                              |                        |               |         |      |
|                        | 50                   | Under 3.7 kW                                                                                                                                                                                                                        | No.                    |               |         |      |
|                        | 60                   | 3.7 kW and over                                                                                                                                                                                                                     | No.                    |               |         |      |
| 8433.19.00             |                      | Other                                                                                                                                                                                                                               |                        | Free          |         | 30%  |
|                        | 10                   | Greens mowers                                                                                                                                                                                                                       | No.                    |               |         |      |
|                        | 20                   | Gang cutting units                                                                                                                                                                                                                  | No.                    |               |         |      |
|                        | 30                   | Other riding mowers                                                                                                                                                                                                                 | No.                    |               |         |      |
|                        |                      | Other:                                                                                                                                                                                                                              |                        |               |         |      |
|                        | 40                   | Gasoline powered                                                                                                                                                                                                                    | No.                    |               |         |      |
|                        | 50                   | Other                                                                                                                                                                                                                               | No.                    |               |         |      |
| 8433.20.00             |                      | Other mowers, including cutter bars for tractor mounting                                                                                                                                                                            |                        | Free          |         | Free |
|                        |                      | Tractor drawn or for tractor mounting:                                                                                                                                                                                              |                        |               |         |      |
|                        | 20                   | Rotary cutter type                                                                                                                                                                                                                  | No.                    |               |         |      |
|                        | 40                   | Other                                                                                                                                                                                                                               | No.                    |               |         |      |
|                        | 60                   | Other                                                                                                                                                                                                                               | No.                    |               |         |      |
| 8433.30.00             | 00                   | Other haymaking machinery                                                                                                                                                                                                           | No.                    | Free          |         | Free |
| 8433.40.00             | 00                   | Straw or fodder balers, including pick-up balers                                                                                                                                                                                    | No.                    | Free          |         | Free |
|                        |                      | Other harvesting machinery; threshing machinery:                                                                                                                                                                                    |                        |               |         |      |
| 8433.51.00             |                      | Combine harvester-threshers                                                                                                                                                                                                         |                        | Free          |         | Free |
|                        | 10                   | Self-propelled                                                                                                                                                                                                                      | No.                    |               |         |      |
|                        | 90                   | Other                                                                                                                                                                                                                               | No.                    |               |         |      |
| 8433.52.00             | 00                   | Other threshing machinery                                                                                                                                                                                                           | No.                    | Free          |         | Free |
| 8433.53.00             | 00                   | Root or tuber harvesting machines                                                                                                                                                                                                   | No.                    | Free          |         | Free |
| 8433.59.00             |                      | Other                                                                                                                                                                                                                               |                        | Free          |         | Free |
|                        | 10                   | Field forage harvesters                                                                                                                                                                                                             | No.                    |               |         |      |
|                        | 90                   | Other                                                                                                                                                                                                                               | No.                    |               |         |      |
| 8433.60.00             |                      | Machines for cleaning, sorting or grading eggs, fruit or other agricultural produce                                                                                                                                                 |                        | Free          |         | Free |
|                        | 10                   | Machines for cleaning, sorting or grading eggs                                                                                                                                                                                      | No.                    |               |         |      |
|                        | 90                   | Other                                                                                                                                                                                                                               | No.                    |               |         |      |
| 8433.90                |                      | Parts:                                                                                                                                                                                                                              |                        |               |         |      |
| 8433.90.10             | 00                   | Of mowers for lawns, parks or sports grounds                                                                                                                                                                                        | X                      | Free          |         | 30%  |
| 8433.90.50             |                      | Other                                                                                                                                                                                                                               |                        | Free          |         | Free |
|                        |                      | Of other mowers, harvesting machines and threshing machines:                                                                                                                                                                        |                        |               |         |      |
|                        | 20                   | Of haying machines and balers                                                                                                                                                                                                       | X                      |               |         |      |
|                        | 40                   | Other                                                                                                                                                                                                                               | X                      |               |         |      |
|                        | 60                   | Of machines for cleaning, sorting or grading eggs                                                                                                                                                                                   | X                      |               |         |      |
|                        | 80                   | Of machines for cleaning, sorting or grading fruit or other agricultural produce                                                                                                                                                    | X                      |               |         |      |

# Harmonized Tariff Schedule of the United States (2004)

Annotated for Statistical Reporting Purposes

XVI  
84-40

| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                                                                                                                                                                          | Unit<br>of<br>Quantity | Rates of Duty |         |      |
|------------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------|---------|------|
|                        |                      |                                                                                                                                                                                                                                                              |                        | 1             |         | 2    |
|                        |                      |                                                                                                                                                                                                                                                              |                        | General       | Special |      |
| 8434                   |                      | Milking machines and dairy machinery, and parts thereof:                                                                                                                                                                                                     |                        |               |         |      |
| 8434.10.00             | 00                   | Milking machines . . . . .                                                                                                                                                                                                                                   | No. . . . .            | Free          |         | Free |
| 8434.20.00             | 00                   | Dairy machinery . . . . .                                                                                                                                                                                                                                    | No. . . . .            | Free          |         | Free |
| 8434.90.00             | 00                   | Parts . . . . .                                                                                                                                                                                                                                              | X . . . . .            | Free          |         | Free |
| 8435                   |                      | Presses, crushers and similar machinery, used in the manufacture of wine, cider, fruit juices or similar beverages; parts thereof:                                                                                                                           |                        |               |         |      |
| 8435.10.00             | 00                   | Machinery . . . . .                                                                                                                                                                                                                                          | No. . . . .            | Free          |         | 40%  |
| 8435.90.00             | 00                   | Parts . . . . .                                                                                                                                                                                                                                              | X . . . . .            | Free          |         | 40%  |
| 8436                   |                      | Other agricultural, horticultural, forestry, poultry-keeping or bee-keeping machinery, including germination plant fitted with mechanical or thermal equipment; poultry incubators and brooders; parts thereof:                                              |                        |               |         |      |
| 8436.10.00             | 00                   | Machinery for preparing animal feeds . . . . .                                                                                                                                                                                                               | No. . . . .            | Free          |         | Free |
|                        |                      | Poultry-keeping machinery; poultry incubators and brooders:                                                                                                                                                                                                  |                        |               |         |      |
| 8436.21.00             | 00                   | Poultry incubators and brooders . . . . .                                                                                                                                                                                                                    | No. . . . .            | Free          |         | Free |
| 8436.29.00             | 00                   | Other . . . . .                                                                                                                                                                                                                                              | No. . . . .            | Free          |         | Free |
| 8436.80.00             |                      | Other machinery . . . . .                                                                                                                                                                                                                                    |                        | Free          |         | Free |
|                        | 20                   | Forestry machinery . . . . .                                                                                                                                                                                                                                 | No.                    |               |         |      |
|                        |                      | Other:                                                                                                                                                                                                                                                       |                        |               |         |      |
|                        | 40                   | Barn and barnyard machines . . . . .                                                                                                                                                                                                                         | No.                    |               |         |      |
|                        | 60                   | Machines for preparing crops for market or for use . . . . .                                                                                                                                                                                                 | No.                    |               |         |      |
|                        |                      | Other:                                                                                                                                                                                                                                                       |                        |               |         |      |
|                        | 70                   | Bee-keeping machinery . . . . .                                                                                                                                                                                                                              | No.                    |               |         |      |
|                        | 90                   | Other . . . . .                                                                                                                                                                                                                                              | No.                    |               |         |      |
|                        |                      | Parts:                                                                                                                                                                                                                                                       |                        |               |         |      |
| 8436.91.00             |                      | Of poultry-keeping machinery or poultry incubators and brooders . . . . .                                                                                                                                                                                    |                        | Free          |         | Free |
|                        | 40                   | Of poultry incubators and brooders . . . . .                                                                                                                                                                                                                 | X                      |               |         |      |
|                        | 80                   | Other . . . . .                                                                                                                                                                                                                                              | X                      |               |         |      |
| 8436.99.00             |                      | Other . . . . .                                                                                                                                                                                                                                              |                        | Free          |         | Free |
|                        | 20                   | Of forestry machinery . . . . .                                                                                                                                                                                                                              | X                      |               |         |      |
|                        | 30                   | Of bee-keeping machinery . . . . .                                                                                                                                                                                                                           | X                      |               |         |      |
|                        | 35                   | Of machinery for preparing animal feeds . . . . .                                                                                                                                                                                                            | X                      |               |         |      |
|                        |                      | Other:                                                                                                                                                                                                                                                       |                        |               |         |      |
|                        | 40                   | Of barn or barnyard machines . . . . .                                                                                                                                                                                                                       | X                      |               |         |      |
|                        | 70                   | Of machines for preparing crops for market or for use . . . . .                                                                                                                                                                                              | X                      |               |         |      |
|                        | 90                   | Other . . . . .                                                                                                                                                                                                                                              | X                      |               |         |      |
| 8437                   |                      | Machines for cleaning, sorting or grading seed, grain or dried leguminous vegetables, and parts thereof; machinery used in the milling industry or for the working of cereals or dried leguminous vegetables, other than farm type machinery; parts thereof: |                        |               |         |      |
| 8437.10.00             | 00                   | Machines for cleaning, sorting or grading seed, grain or dried leguminous vegetables . . . . .                                                                                                                                                               | No. . . . .            | Free          |         | 35%  |
| 8437.80.00             |                      | Other machinery . . . . .                                                                                                                                                                                                                                    |                        | Free          |         | 35%  |
|                        | 10                   | Flour mill and grain mill machines . . . . .                                                                                                                                                                                                                 | No.                    |               |         |      |
|                        | 90                   | Other . . . . .                                                                                                                                                                                                                                              | No.                    |               |         |      |
| 8437.90.00             |                      | Parts . . . . .                                                                                                                                                                                                                                              |                        | Free          |         | 35%  |
|                        | 10                   | Of flour mill or grain mill machines . . . . .                                                                                                                                                                                                               | X                      |               |         |      |
|                        | 90                   | Other . . . . .                                                                                                                                                                                                                                              | X                      |               |         |      |

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Annotated for Statistical Reporting Purposes

XVI  
84-41

| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                                                                                                                                                              | Unit<br>of<br>Quantity | Rates of Duty |                                |      |
|------------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------|--------------------------------|------|
|                        |                      |                                                                                                                                                                                                                                                  |                        | 1             |                                | 2    |
|                        |                      |                                                                                                                                                                                                                                                  |                        | General       | Special                        |      |
| 8438                   |                      | Machinery, not specified or included elsewhere in this chapter, for the industrial preparation or manufacture of food or drink, other than machinery for the extraction or preparation of animal or fixed vegetable fats or oils; parts thereof: |                        |               |                                |      |
| 8438.10.00             |                      | Bakery machinery and machinery for the manufacture of macaroni, spaghetti or similar products . . . . .                                                                                                                                          | No.                    | Free          |                                | 35%  |
|                        | 10                   | Bakery machinery . . . . .                                                                                                                                                                                                                       | No.                    |               |                                |      |
|                        | 90                   | Other . . . . .                                                                                                                                                                                                                                  | No.                    |               |                                |      |
| 8438.20.00             | 00                   | Machinery for the manufacture of confectionery, cocoa or chocolate . . . . .                                                                                                                                                                     | No.                    | Free          |                                | 35%  |
| 8438.30.00             | 00                   | Machinery for sugar manufacture . . . . .                                                                                                                                                                                                        | No.                    | Free          |                                | Free |
| 8438.40.00             | 00                   | Brewery machinery . . . . .                                                                                                                                                                                                                      | No.                    | 2.3%          | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 35%  |
| 8438.50.00             |                      | Machinery for the preparation of meat or poultry . . . . .                                                                                                                                                                                       |                        | 2.8%          | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 35%  |
|                        | 10                   | Meat- and poultry-packing plant machinery . . . . .                                                                                                                                                                                              | No.                    |               |                                |      |
|                        | 90                   | Other . . . . .                                                                                                                                                                                                                                  | No.                    |               |                                |      |
| 8438.60.00             | 00                   | Machinery for the preparation of fruits, nuts or vegetables . . . . .                                                                                                                                                                            | No.                    | Free          |                                | 35%  |
| 8438.80.00             | 00                   | Other machinery . . . . .                                                                                                                                                                                                                        | No.                    | Free          |                                | 40%  |
| 8438.90                |                      | Parts:                                                                                                                                                                                                                                           |                        |               |                                |      |
| 8438.90.10             | 00                   | Of machinery for sugar manufacture . . . . .                                                                                                                                                                                                     | X                      | Free          |                                | Free |
| 8438.90.90             |                      | Other . . . . .                                                                                                                                                                                                                                  |                        | 2.8%          | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 35%  |
|                        | 15                   | Of bakery machinery and machinery for the manufacture of macaroni, spaghetti or similar products . . . . .                                                                                                                                       | X                      |               |                                |      |
|                        | 30                   | Of machinery for the manufacture of confectionery, cocoa or chocolate . . . . .                                                                                                                                                                  | X                      |               |                                |      |
|                        | 60                   | Of machinery for the preparation of meat or poultry . . . . .                                                                                                                                                                                    | X                      |               |                                |      |
|                        | 90                   | Other . . . . .                                                                                                                                                                                                                                  | X                      |               |                                |      |
| 8439                   |                      | Machinery for making pulp of fibrous cellulosic material or for making or finishing paper or paperboard (other than the machinery of heading 8419); parts thereof:                                                                               |                        |               |                                |      |
| 8439.10.00             |                      | Machinery for making pulp of fibrous cellulosic material . . . . .                                                                                                                                                                               |                        | Free          |                                | 35%  |
|                        | 10                   | New . . . . .                                                                                                                                                                                                                                    | No.                    |               |                                |      |
|                        | 90                   | Used or rebuilt . . . . .                                                                                                                                                                                                                        | No.                    |               |                                |      |
| 8439.20.00             |                      | Machinery for making paper or paperboard . . . . .                                                                                                                                                                                               |                        | Free          |                                | 35%  |
|                        | 10                   | New . . . . .                                                                                                                                                                                                                                    | No.                    |               |                                |      |
|                        | 90                   | Used or rebuilt . . . . .                                                                                                                                                                                                                        | No.                    |               |                                |      |
| 8439.30.00             | 00                   | Machinery for finishing paper or paperboard . . . . .                                                                                                                                                                                            | No.                    | Free          |                                | 35%  |
| 8439.91                |                      | Parts:                                                                                                                                                                                                                                           |                        |               |                                |      |
| 8439.91.10             | 00                   | Of machinery for making pulp of fibrous cellulosic materials:<br>Bed plates, roll bars and other stock-treating parts . . . . .                                                                                                                  | X                      | Free          |                                | 20%  |
| 8439.91.90             | 00                   | Other . . . . .                                                                                                                                                                                                                                  | X                      | Free          |                                | 35%  |
| 8439.99                |                      | Other:                                                                                                                                                                                                                                           |                        |               |                                |      |
| 8439.99.10             | 00                   | Of machinery for making paper or paperboard . . . . .                                                                                                                                                                                            | X                      | Free          |                                | 35%  |
| 8439.99.50             | 00                   | Of machinery for finishing paper or paperboard . . . . .                                                                                                                                                                                         | X                      | Free          |                                | 35%  |

# Harmonized Tariff Schedule of the United States (2004)

Annotated for Statistical Reporting Purposes

XVI  
84-42

| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                                                                                                                                                                                                                                                                                                                                                         | Unit<br>of<br>Quantity | Rates of Duty |                                |      |
|------------------------|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------|--------------------------------|------|
|                        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                             |                        | 1             |                                | 2    |
|                        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                             |                        | General       | Special                        |      |
| 8440                   |                      | Bookbinding machinery, including book-sewing machines, and parts thereof:                                                                                                                                                                                                                                                                                                                                                                   |                        |               |                                |      |
| 8440.10.00             | 00                   | Machinery . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                         | No. . . . .            | Free          |                                | 25%  |
| 8440.90.00             | 00                   | Parts . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                             | X . . . . .            | Free          |                                | 25%  |
| 8441                   |                      | Other machinery for making up paper pulp, paper or paperboard, including cutting machines of all kinds, and parts thereof:                                                                                                                                                                                                                                                                                                                  |                        |               |                                |      |
| 8441.10.00             | 00                   | Cutting machines . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                  | No. . . . .            | Free          |                                | 35%  |
| 8441.20.00             | 00                   | Machines for making bags, sacks or envelopes . . . . .                                                                                                                                                                                                                                                                                                                                                                                      | No. . . . .            | Free          |                                | 35%  |
| 8441.30.00             | 00                   | Machines for making cartons, boxes, cases, tubes, drums or similar containers, other than by molding . . . . .                                                                                                                                                                                                                                                                                                                              | No. . . . .            | Free          |                                | 35%  |
| 8441.40.00             | 00                   | Machines for molding articles in paper pulp, paper or paperboard . . . . .                                                                                                                                                                                                                                                                                                                                                                  | No. . . . .            | Free          |                                | 35%  |
| 8441.80.00             | 00                   | Other machinery . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                   | No. . . . .            | Free          |                                | 35%  |
| 8441.90.00             | 00                   | Parts . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                             | X . . . . .            | Free          |                                | 35%  |
| 8442                   |                      | Machinery, apparatus and equipment (other than the machine tools of headings 8456 to 8465), for type-founding or typesetting, for preparing or making printing blocks, plates, cylinders or other printing components; printing type, blocks, plates, cylinders and other printing components; blocks, plates, cylinders and lithographic stones, prepared for printing purposes (for example, planed, grained or polished); parts thereof: |                        |               |                                |      |
| 8442.10.00             | 00                   | Phototypesetting and composing machines . . . . .                                                                                                                                                                                                                                                                                                                                                                                           | No. . . . .            | Free          |                                | Free |
| 8442.20.00             | 00                   | Machinery, apparatus and equipment for typesetting or composing by other processes, with or without founding device . . . . .                                                                                                                                                                                                                                                                                                               | No. . . . .            | Free          |                                | Free |
| 8442.30.00             | 00                   | Other machinery, apparatus and equipment . . . . .                                                                                                                                                                                                                                                                                                                                                                                          | No. . . . .            | Free          |                                | Free |
| 8442.40.00             | 00                   | Parts of the foregoing machinery, apparatus or equipment . . . . .                                                                                                                                                                                                                                                                                                                                                                          | X . . . . .            | Free          |                                | Free |
| 8442.50                |                      | Printing type, blocks, plates, cylinders and other printing components; blocks, plates, cylinders and lithographic stones, prepared for printing purposes (for example, planed, grained or polished):                                                                                                                                                                                                                                       |                        |               |                                |      |
| 8442.50.10             | 10                   | Plates . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                            |                        | Free          |                                | 25%  |
|                        | 10                   | Planed, grained, polished or otherwise prepared for engraving or impressing . . . . .                                                                                                                                                                                                                                                                                                                                                       | No.                    |               |                                |      |
|                        | 90                   | Other . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                             | No.                    |               |                                |      |
| 8442.50.90             | 90                   | Other . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                             |                        | 4%            | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 60%  |
|                        | 10                   | Planed, grained, polished or otherwise prepared for engraving or impressing . . . . .                                                                                                                                                                                                                                                                                                                                                       | No.                    |               |                                |      |
|                        | 90                   | Other . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                             | No.                    |               |                                |      |

# Harmonized Tariff Schedule of the United States (2004)

Annotated for Statistical Reporting Purposes

XVI  
84-43

| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                                                                                                                                                                           | Unit<br>of<br>Quantity | Rates of Duty |                                    |     |
|------------------------|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------|------------------------------------|-----|
|                        |                      |                                                                                                                                                                                                                                                               |                        | 1             |                                    | 2   |
|                        |                      |                                                                                                                                                                                                                                                               |                        | General       | Special                            |     |
| 8443                   |                      | Printing machinery used for printing by means of printing type, blocks, plates, cylinders and other printing components of heading 8442; ink-jet printing machines, other than those of heading 8471; machines for uses ancillary to printing; parts thereof: |                        |               |                                    |     |
| 8443.11                |                      | Offset printing machinery:                                                                                                                                                                                                                                    |                        |               |                                    |     |
| 8443.11.10             | 00                   | Reel-fed:                                                                                                                                                                                                                                                     |                        |               |                                    |     |
|                        |                      | Double-width newspaper printing presses . . . . .                                                                                                                                                                                                             | No. . . . .            | 3.3%          | Free (A,CA,CL,E,<br>IL,J,JO,MX,SG) | 25% |
| 8443.11.50             | 00                   | Other . . . . .                                                                                                                                                                                                                                               | No. . . . .            | Free          |                                    | 25% |
| 8443.12.00             | 00                   | Sheet-fed, office type (sheet size not exceeding 22 x 36 cm) . . . . .                                                                                                                                                                                        | No. . . . .            | Free          |                                    | 25% |
| 8443.19                |                      | Other:                                                                                                                                                                                                                                                        |                        |               |                                    |     |
| 8443.19.10             | 00                   | Weighing 900 kg or less . . . . .                                                                                                                                                                                                                             | No. . . . .            | Free          |                                    | 25% |
| 8443.19.50             | 00                   | Weighing more than 900 kg but less than 1,600 kg . . . . .                                                                                                                                                                                                    | No. . . . .            | Free          |                                    | 25% |
| 8443.19.90             | 00                   | Weighing 1,600 kg or more . . . . .                                                                                                                                                                                                                           | No. . . . .            | Free          |                                    | 25% |
|                        |                      | Letterpress printing machinery, excluding flexographic printing:                                                                                                                                                                                              |                        |               |                                    |     |
| 8443.21.00             | 00                   | Reel-fed . . . . .                                                                                                                                                                                                                                            | No. . . . .            | 2.2%          | Free (A,CA,CL,E,<br>IL,J,JO,MX,SG) | 25% |
| 8443.29.00             | 00                   | Other . . . . .                                                                                                                                                                                                                                               | No. . . . .            | Free          |                                    | 25% |
| 8443.30.00             | 00                   | Flexographic printing machinery . . . . .                                                                                                                                                                                                                     | No. . . . .            | 2.2%          | Free (A,CA,CL,E,<br>IL,J,JO,MX,SG) | 25% |
| 8443.40.00             | 00                   | Gravure printing machinery . . . . .                                                                                                                                                                                                                          | No. . . . .            | 2.2%          | Free (A,CA,CL,E,<br>IL,J,JO,MX,SG) | 25% |
|                        |                      | Other printing machinery:                                                                                                                                                                                                                                     |                        |               |                                    |     |
| 8443.51                |                      | Ink-jet printing machinery:                                                                                                                                                                                                                                   |                        |               |                                    |     |
| 8443.51.10             | 00                   | Textile printing machinery . . . . .                                                                                                                                                                                                                          | X . . . . .            | 2.6%          | Free (A,CA,CL,E,<br>IL,J,JO,MX,SG) | 40% |
| 8443.51.50             | 00                   | Other . . . . .                                                                                                                                                                                                                                               | X . . . . .            | Free          |                                    | 25% |
| 8443.59                |                      | Other:                                                                                                                                                                                                                                                        |                        |               |                                    |     |
| 8443.59.10             | 00                   | Textile printing machinery . . . . .                                                                                                                                                                                                                          | X . . . . .            | 2.6%          | Free (A,CA,CL,E,<br>IL,J,JO,MX,SG) | 40% |
| 8443.59.90             | 00                   | Other . . . . .                                                                                                                                                                                                                                               | X . . . . .            | Free          |                                    | 25% |
| 8443.60.00             | 00                   | Machines for uses ancillary to printing . . . . .                                                                                                                                                                                                             | X . . . . .            | Free          |                                    | 25% |
| 8443.90                |                      | Parts:                                                                                                                                                                                                                                                        |                        |               |                                    |     |
| 8443.90.10             | 00                   | Of textile printing machinery . . . . .                                                                                                                                                                                                                       | X . . . . .            | 2.6%          | Free (A,CA,CL,E,<br>IL,J,JO,MX,SG) | 40% |
| 8443.90.90             | 00                   | Other . . . . .                                                                                                                                                                                                                                               | X . . . . .            | Free          |                                    | 25% |

# Harmonized Tariff Schedule of the United States (2004)

Annotated for Statistical Reporting Purposes

XVI  
84-44

| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                                                                                                                                                                                                    | Unit<br>of<br>Quantity | Rates of Duty |                                |     |
|------------------------|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------|--------------------------------|-----|
|                        |                      |                                                                                                                                                                                                                                                                                        |                        | 1             |                                | 2   |
|                        |                      |                                                                                                                                                                                                                                                                                        |                        | General       | Special                        |     |
| 8444.00.00             |                      | Machines for extruding, drawing, texturing or cutting man-made textile materials . . . . .                                                                                                                                                                                             |                        | Free          |                                | 40% |
|                        | 10                   | Texturing machines . . . . .                                                                                                                                                                                                                                                           | No.                    |               |                                |     |
|                        | 90                   | Other . . . . .                                                                                                                                                                                                                                                                        | No.                    |               |                                |     |
| 8445                   |                      | Machines for preparing textile fibers; spinning, doubling or twisting machines and other machinery for producing textile yarns; textile reeling or winding (including weft winding) machines and machines for preparing textile yarns for use on the machines of heading 8446 or 8447: |                        |               |                                |     |
|                        |                      | Machines for preparing textile fibers:                                                                                                                                                                                                                                                 |                        |               |                                |     |
| 8445.11.00             | 00                   | Carding machines . . . . .                                                                                                                                                                                                                                                             | No. . . . .            | Free          |                                | 40% |
| 8445.12.00             | 00                   | Combing machines . . . . .                                                                                                                                                                                                                                                             | No. . . . .            | Free          |                                | 40% |
| 8445.13.00             | 00                   | Drawing or roving machines . . . . .                                                                                                                                                                                                                                                   | No. . . . .            | Free          |                                | 40% |
| 8445.19.00             |                      | Other . . . . .                                                                                                                                                                                                                                                                        |                        | 3.3%          | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 40% |
|                        | 40                   | Cotton gins . . . . .                                                                                                                                                                                                                                                                  | No.                    |               |                                |     |
|                        | 80                   | Other . . . . .                                                                                                                                                                                                                                                                        | No.                    |               |                                |     |
| 8445.20.00             | 00                   | Textile spinning machines . . . . .                                                                                                                                                                                                                                                    | No. . . . .            | Free          |                                | 40% |
| 8445.30.00             |                      | Textile doubling or twisting machines . . . . .                                                                                                                                                                                                                                        |                        | Free          |                                | 40% |
|                        | 10                   | Textile twisting machines . . . . .                                                                                                                                                                                                                                                    | No.                    |               |                                |     |
|                        | 90                   | Other . . . . .                                                                                                                                                                                                                                                                        | No.                    |               |                                |     |
| 8445.40.00             | 00                   | Textile winding (including weft winding) or reeling machines . . . . .                                                                                                                                                                                                                 | No. . . . .            | 3.7%          | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 40% |
| 8445.90.00             | 00                   | Other . . . . .                                                                                                                                                                                                                                                                        | No. . . . .            | 3.7%          | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 40% |
| 8446                   |                      | Weaving machines (looms):                                                                                                                                                                                                                                                              |                        |               |                                |     |
| 8446.10.00             |                      | For weaving fabrics of a width not exceeding 30 cm . . . . .                                                                                                                                                                                                                           |                        | Free          |                                | 40% |
|                        | 10                   | Power looms . . . . .                                                                                                                                                                                                                                                                  | No.                    |               |                                |     |
|                        | 90                   | Other . . . . .                                                                                                                                                                                                                                                                        | No.                    |               |                                |     |
|                        |                      | For weaving fabrics of a width exceeding 30 cm, shuttle type:                                                                                                                                                                                                                          |                        |               |                                |     |
| 8446.21                |                      | Power looms:                                                                                                                                                                                                                                                                           |                        |               |                                |     |
| 8446.21.10             | 00                   | For weaving fabrics of a width exceeding 4.9 m . . . . .                                                                                                                                                                                                                               | No. . . . .            | Free          |                                | 40% |
| 8446.21.50             | 00                   | Other . . . . .                                                                                                                                                                                                                                                                        | No. . . . .            | 3.7%          | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 40% |
| 8446.29.00             | 00                   | Other . . . . .                                                                                                                                                                                                                                                                        | No. . . . .            | Free          |                                | 40% |
| 8446.30                |                      | For weaving fabrics of a width exceeding 30 cm, shuttleless type:                                                                                                                                                                                                                      |                        |               |                                |     |
| 8446.30.10             |                      | Power looms for weaving fabrics of a width exceeding 4.9 m . . . . .                                                                                                                                                                                                                   |                        | Free          |                                | 40% |
|                        | 10                   | Rapier type . . . . .                                                                                                                                                                                                                                                                  | No.                    |               |                                |     |
|                        | 20                   | Jet type . . . . .                                                                                                                                                                                                                                                                     | No.                    |               |                                |     |
|                        | 30                   | Other . . . . .                                                                                                                                                                                                                                                                        | No.                    |               |                                |     |
| 8446.30.50             |                      | Other . . . . .                                                                                                                                                                                                                                                                        |                        | 3.7%          | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 40% |
|                        | 10                   | Rapier type . . . . .                                                                                                                                                                                                                                                                  | No.                    |               |                                |     |
|                        | 20                   | Jet type . . . . .                                                                                                                                                                                                                                                                     | No.                    |               |                                |     |
|                        | 30                   | Other . . . . .                                                                                                                                                                                                                                                                        | No.                    |               |                                |     |



# Harmonized Tariff Schedule of the United States (2004)

Annotated for Statistical Reporting Purposes

XVI  
84-45

| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                                                                                                                                                                                                                                                                                                                                                                     | Unit<br>of<br>Quantity | Rates of Duty |                                |     |
|------------------------|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------|--------------------------------|-----|
|                        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                        | 1             |                                | 2   |
|                        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                        | General       | Special                        |     |
| 8447                   |                      | Knitting machines, stitch-bonding machines and machines for making gimped yarn, tulle, lace, embroidery, trimmings, braid or net and machines for tufting:                                                                                                                                                                                                                                                                                              |                        |               |                                |     |
|                        |                      | Circular knitting machines:                                                                                                                                                                                                                                                                                                                                                                                                                             |                        |               |                                |     |
| 8447.11                |                      | With cylinder diameter not exceeding 165 mm:                                                                                                                                                                                                                                                                                                                                                                                                            |                        |               |                                |     |
| 8447.11.10             | 00                   | For knitting hosiery . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                          | No. . . . .            | Free          |                                | 40% |
| 8447.11.90             |                      | Other . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                         |                        | Free          |                                | 40% |
|                        | 10                   | Open-top cylinder machines . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                    | No.                    |               |                                |     |
|                        | 20                   | Cylinder and dial machines . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                    | No.                    |               |                                |     |
|                        | 90                   | Other . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                         | No.                    |               |                                |     |
| 8447.12                |                      | With cylinder diameter exceeding 165 mm:                                                                                                                                                                                                                                                                                                                                                                                                                |                        |               |                                |     |
| 8447.12.10             | 00                   | For knitting hosiery . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                          | No. . . . .            | Free          |                                | 40% |
| 8447.12.90             |                      | Other . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                         |                        | Free          |                                | 40% |
|                        | 10                   | Open-top cylinder machines . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                    | No.                    |               |                                |     |
|                        | 20                   | Cylinder and dial machines . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                    | No.                    |               |                                |     |
|                        | 90                   | Other . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                         | No.                    |               |                                |     |
| 8447.20                |                      | Flat knitting machines; stitch-bonding machines:                                                                                                                                                                                                                                                                                                                                                                                                        |                        |               |                                |     |
|                        |                      | V-bed flat knitting machines:                                                                                                                                                                                                                                                                                                                                                                                                                           |                        |               |                                |     |
| 8447.20.20             | 00                   | Power driven flat knitting machines over 50.8 cm in width . . . . .                                                                                                                                                                                                                                                                                                                                                                                     | No. . . . .            | Free          |                                | 40% |
| 8447.20.30             | 00                   | Other . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                         | No. . . . .            | 2.6%          | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 40% |
| 8447.20.40             | 00                   | Warp knitting machines . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                        | No. . . . .            | Free          |                                | 40% |
| 8447.20.60             | 00                   | Other . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                         | No. . . . .            | Free          |                                | 40% |
| 8447.90                |                      | Other:                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                        |               |                                |     |
| 8447.90.10             | 00                   | Braiding and lace-braiding machines . . . . .                                                                                                                                                                                                                                                                                                                                                                                                           | No. . . . .            | Free          |                                | 40% |
| 8447.90.50             | 00                   | Embroidery machines . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                           | No. . . . .            | Free          |                                | 30% |
| 8447.90.90             | 00                   | Other . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                         | No. . . . .            | Free          |                                | 40% |
| 8448                   |                      | Auxiliary machinery for use with machines of heading 8444, 8445, 8446 or 8447 (for example, dobbies, Jacquards, automatic stop motions and shuttle changing mechanisms); parts and accessories suitable for use solely or principally with the machines of this heading or of heading 8444, 8445, 8446 or 8447 (for example, spindles and spindle flyers, card clothing, combs, extruding nipples, shuttles, healds and heald-frames, hosiery needles): |                        |               |                                |     |
|                        |                      | Auxiliary machinery for machines of heading 8444, 8445, 8446 or 8447:                                                                                                                                                                                                                                                                                                                                                                                   |                        |               |                                |     |
| 8448.11.00             | 00                   | Dobbies and Jacquards; card reducing, copying, punching or assembling machines for use therewith . . . . .                                                                                                                                                                                                                                                                                                                                              | X . . . . .            | Free          |                                | 40% |
| 8448.19.00             | 00                   | Other . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                         | X . . . . .            | Free          |                                | 40% |
| 8448.20                |                      | Parts and accessories of machines of heading 8444 or of their auxiliary machinery:                                                                                                                                                                                                                                                                                                                                                                      |                        |               |                                |     |
| 8448.20.10             | 00                   | Of machines for extruding or drawing man-made textile filaments . . . . .                                                                                                                                                                                                                                                                                                                                                                               | X . . . . .            | 3.7%          | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 40% |
| 8448.20.50             |                      | Other . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                         |                        | 3.3%          | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 40% |
|                        | 10                   | Of texturing machines . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                         | X                      |               |                                |     |
|                        | 90                   | Other . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                         | X                      |               |                                |     |

# Harmonized Tariff Schedule of the United States (2004)

Annotated for Statistical Reporting Purposes

XVI  
84-46

| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Unit<br>of<br>Quantity | Rates of Duty |                                |                    |
|------------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------|--------------------------------|--------------------|
|                        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                        | 1             |                                | 2                  |
|                        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                        | General       | Special                        |                    |
| 8448<br>(con.)         |                      | Auxiliary machinery for use with machines of heading 8444, 8445, 8446 or 8447 (for example, dobbies, Jacquards, automatic stop motions and shuttle changing mechanisms); parts and accessories suitable for use solely or principally with the machines of this heading or of heading 8444, 8445, 8446 or 8447 (for example, spindles and spindle flyers, card clothing, combs, extruding nipples, shuttles, healds and heald-frames, hosiery needles) (con.):<br>Parts and accessories of machines of heading 8445 or of their auxiliary machinery: |                        |               |                                |                    |
| 8448.31.00             | 00                   | Card clothing .....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | m <sup>2</sup> .....   | 3.3%          | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 45%                |
| 8448.32.00             |                      | Of machines for preparing textile fibers, other than card clothing .....                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                        | Free          |                                | 40%                |
|                        | 10                   | Of cotton gins .....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | X                      |               |                                |                    |
|                        | 90                   | Other .....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | X                      |               |                                |                    |
| 8448.33.00             | 00                   | Spindles, spindle flyers, spinning rings and ring travellers .....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | X .....                | 3.3%          | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 40%                |
| 8448.39                |                      | Other:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                        |               |                                |                    |
| 8448.39.10             | 00                   | Parts of spinning, doubling or twisting machines .....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | X .....                | Free          |                                | 40%                |
| 8448.39.50             | 00                   | Parts of winding or reeling machines .....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | X .....                | 3.7%          | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 40%                |
| 8448.39.90             | 00                   | Other .....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | X .....                | Free          |                                | 40%                |
|                        |                      | Parts and accessories of weaving machines (looms) or of their auxiliary machinery:                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                        |               |                                |                    |
| 8448.41.00             | 00                   | Shuttles .....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | X .....                | 3.7%          | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 40%                |
| 8448.42.00             | 00                   | Reeds for looms, healds and heald-frames .....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | X .....                | 3.7%          | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 40%                |
| 8448.49.00             | 00                   | Other .....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | X .....                | Free          |                                | 40%                |
|                        |                      | Parts and accessories of machines of heading 8447 or of their auxiliary machinery:                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                        |               |                                |                    |
| 8448.51                |                      | Sinkers, needles and other articles used in forming stitches:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                        |               |                                |                    |
|                        |                      | Needles for knitting machines:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                        |               |                                |                    |
| 8448.51.10             | 00                   | Latch needles .....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | thousand               | Free          |                                | \$2/1,000 + 60%    |
| 8448.51.20             | 00                   | Spring-beard needles .....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | thousand               | Free          |                                | \$1.50/1,000 + 50% |
| 8448.51.30             | 00                   | Other .....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | thousand               | Free          |                                | \$1.15/1,000 + 40% |
| 8448.51.50             | 00                   | Other .....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | X .....                | Free          |                                | 40%                |
| 8448.59                |                      | Other:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                        |               |                                |                    |
| 8448.59.10             | 00                   | Parts of knitting machines .....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | X .....                | Free          |                                | 40%                |
| 8448.59.50             | 00                   | Other .....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | X .....                | Free          |                                | 40%                |

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Annotated for Statistical Reporting Purposes

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| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                                                                                         | Unit<br>of<br>Quantity | Rates of Duty |                                     |     |
|------------------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------|-------------------------------------|-----|
|                        |                      |                                                                                                                                                                             |                        | 1             |                                     | 2   |
|                        |                      |                                                                                                                                                                             |                        | General       | Special                             |     |
| 8449.00                |                      | Machinery for the manufacture or finishing of felt or nonwovens in the piece or in shapes, including machinery for making felt hats; blocks for making hats; parts thereof: |                        |               |                                     |     |
| 8449.00.10             | 00                   | Finishing machinery and parts thereof . . . . .                                                                                                                             | X . . . . .            | 2.6%          | Free (A,CA,CL,E,<br>IL,J,JO,MX,SG)  | 40% |
| 8449.00.50             | 00                   | Other . . . . .                                                                                                                                                             | X . . . . .            | Free          |                                     | 40% |
| 8450                   |                      | Household- or laundry-type washing machines, including machines which both wash and dry; parts thereof:                                                                     |                        |               |                                     |     |
|                        |                      | Machines, each of a dry linen capacity not exceeding 10 kg:                                                                                                                 |                        |               |                                     |     |
| 8450.11.00             |                      | Fully automatic machines . . . . .                                                                                                                                          |                        | 1.4%          | Free (A,CA,CL,E,<br>IL,J,JO,MX,SG)  | 35% |
|                        | 10                   | Coin operated . . . . .                                                                                                                                                     | No.                    |               |                                     |     |
|                        |                      | Other:                                                                                                                                                                      |                        |               |                                     |     |
|                        | 40                   | Top Loading . . . . .                                                                                                                                                       | No.                    |               |                                     |     |
|                        | 80                   | Other . . . . .                                                                                                                                                             | No.                    |               |                                     |     |
| 8450.12.00             | 00                   | Other machines with built-in centrifugal dryer . . . . .                                                                                                                    | No. . . . .            | 2.6%          | Free (A,CA,CL,E,<br>IL,J,JO,MX,SG)  | 40% |
| 8450.19.00             | 00                   | Other . . . . .                                                                                                                                                             | No. . . . .            | 1.8%          | Free (A,CA,CL,E,<br>IL,J,JO,MX,SG)  | 35% |
| 8450.20.00             |                      | Machines, each of a dry linen capacity exceeding 10 kg . . . . .                                                                                                            |                        | 1%            | Free (A,CA,CL,E,<br>IL,J,JO,MX,SG)  | 35% |
|                        | 10                   | Coin operated . . . . .                                                                                                                                                     | No.                    |               |                                     |     |
|                        | 90                   | Other . . . . .                                                                                                                                                             | No.                    |               |                                     |     |
| 8450.90                |                      | Parts:                                                                                                                                                                      |                        |               |                                     |     |
| 8450.90.20             | 00                   | Tubs and tub assemblies . . . . .                                                                                                                                           | X . . . . .            | 2.6%          | Free (A*,CA,CL,E,<br>IL,J,JO,MX,SG) | 40% |
| 8450.90.40             | 00                   | Furniture designed to receive the machines of subheadings 8450.11 through 8450.20, inclusive . . . . .                                                                      | X . . . . .            | 2.6%          | Free (A,CA,CL,E,<br>IL,J,JO,MX,SG)  | 40% |
| 8450.90.60             | 00                   | Other . . . . .                                                                                                                                                             | X . . . . .            | 2.6%          | Free (A,CA,CL,E,<br>IL,J,JO,MX,SG)  | 40% |

# Harmonized Tariff Schedule of the United States (2004)

Annotated for Statistical Reporting Purposes

XVI  
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| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Unit<br>of<br>Quantity | Rates of Duty |                                    |     |
|------------------------|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------|------------------------------------|-----|
|                        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                        | 1             |                                    | 2   |
|                        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                        | General       | Special                            |     |
| 8451                   |                      | Machinery (other than machines of heading 8450) for washing, cleaning, wringing, drying, ironing, pressing (including fusing presses), bleaching, dyeing, dressing, finishing, coating or impregnating textile yarns, fabrics or made up textile articles and machines for applying the paste to the base fabric or other support used in the manufacture of floor coverings such as linoleum; machines for reeling, unreeling, folding, cutting or pinking textile fabrics; parts thereof: |                        |               |                                    |     |
| 8451.10.00             | 00                   | Dry-cleaning machines . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                             | No. . . . .            | Free          |                                    | 35% |
| 8451.21.00             |                      | Drying machines:<br>Each of a dry linen capacity not exceeding 10 kg . . . . .                                                                                                                                                                                                                                                                                                                                                                                                              |                        | 3.4%          | Free (A,CA,CL,E,<br>IL,J,JO,MX,SG) | 40% |
|                        | 10                   | Coin operated . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | No.                    |               |                                    |     |
|                        | 90                   | Other . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | No.                    |               |                                    |     |
| 8451.29.00             |                      | Other . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                        | 2.6%          | Free (A,CA,CL,E,<br>IL,J,JO,MX,SG) | 40% |
|                        | 10                   | For drying made up articles . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                       | No.                    |               |                                    |     |
|                        | 90                   | Other . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | No.                    |               |                                    |     |
| 8451.30.00             | 00                   | Ironing machines and presses (including fusing presses) . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                           | No. . . . .            | Free          |                                    | 35% |
| 8451.40.00             | 00                   | Washing, bleaching or dyeing machines . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                             | No. . . . .            | 3.5%          | Free (A,CA,CL,E,<br>IL,J,JO,MX,SG) | 40% |
| 8451.50.00             | 00                   | Machines for reeling, unreeling, folding, cutting or pinking textile fabrics . . . . .                                                                                                                                                                                                                                                                                                                                                                                                      | No. . . . .            | Free          |                                    | 40% |
| 8451.80.00             | 00                   | Other machinery . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | No. . . . .            | 3.5%          | Free (A,CA,CL,E,<br>IL,J,JO,MX,SG) | 40% |
| 8451.90                |                      | Parts:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                        |               |                                    |     |
| 8451.90.30             | 00                   | Drying chambers for the drying machines of subheading 8451.21 or 8451.29, and other parts of drying machines incorporating drying chambers . . . . .                                                                                                                                                                                                                                                                                                                                        | X . . . . .            | 3.5%          | Free (A,CA,CL,E,<br>IL,J,JO,MX,SG) | 40% |
| 8451.90.60             | 00                   | Furniture designed to receive the drying machines of subheading 8451.21 or 8451.29 . . . . .                                                                                                                                                                                                                                                                                                                                                                                                | X . . . . .            | 3.5%          | Free (A,CA,CL,E,<br>IL,J,JO,MX,SG) | 40% |
| 8451.90.90             |                      | Other . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                        | 3.5%          | Free (A,CA,CL,E,<br>IL,J,JO,MX,SG) | 40% |
|                        | 10                   | Of machines for washing, dry-cleaning, ironing, pressing or drying made up textile articles or of other household or laundry type machines . . . . .                                                                                                                                                                                                                                                                                                                                        | X                      |               |                                    |     |
|                        | 20                   | Other:<br>Of machines for bleaching, dyeing, washing or cleaning . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                  | X                      |               |                                    |     |
|                        | 90                   | Other . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | X                      |               |                                    |     |

# Harmonized Tariff Schedule of the United States (2004)

Annotated for Statistical Reporting Purposes

XVI  
84-49

| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                                                                                                              | Unit<br>of<br>Quantity | Rates of Duty |                                |      |
|------------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------|--------------------------------|------|
|                        |                      |                                                                                                                                                                                                  |                        | 1             |                                | 2    |
|                        |                      |                                                                                                                                                                                                  |                        | General       | Special                        |      |
| 8452                   |                      | Sewing machines, other than book-sewing machines of heading 8440; furniture, bases and covers specially designed for sewing machines; sewing machine needles; parts thereof:                     |                        |               |                                |      |
| 8452.10.00             |                      | Sewing machines of the household type . . . . .                                                                                                                                                  |                        | Free          |                                | 30%  |
|                        | 10                   | Valued not over \$20 each . . . . .                                                                                                                                                              | No.                    |               |                                |      |
|                        | 90                   | Other . . . . .                                                                                                                                                                                  | No.                    |               |                                |      |
|                        |                      | Other sewing machines:                                                                                                                                                                           |                        |               |                                |      |
|                        |                      | Automatic units:                                                                                                                                                                                 |                        |               |                                |      |
| 8452.21                |                      | Specially designed to join footwear soles to uppers . . . . .                                                                                                                                    | No. . . . .            | Free          |                                | Free |
| 8452.21.10             | 00                   |                                                                                                                                                                                                  |                        |               |                                |      |
| 8452.21.90             | 00                   | Other . . . . .                                                                                                                                                                                  | No. . . . .            | Free          |                                | 30%  |
| 8452.29                |                      | Other:                                                                                                                                                                                           |                        |               |                                |      |
| 8452.29.10             | 00                   | Specially designed to join footwear soles to uppers . . . . .                                                                                                                                    | No. . . . .            | Free          |                                | Free |
| 8452.29.90             | 00                   | Other . . . . .                                                                                                                                                                                  | No. . . . .            | Free          |                                | 30%  |
| 8452.30.00             | 00                   | Sewing machine needles . . . . .                                                                                                                                                                 | thousand               | Free          |                                | 42%  |
| 8452.40.00             | 00                   | Furniture, bases and covers for sewing machines, and parts thereof . . . . .                                                                                                                     | X . . . . .            | 2.5%          | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 20%  |
| 8452.90.00             |                      | Other parts of sewing machines . . . . .                                                                                                                                                         |                        | Free          |                                | 30%  |
|                        | 10                   | Of household machines . . . . .                                                                                                                                                                  | X                      |               |                                |      |
|                        | 90                   | Other . . . . .                                                                                                                                                                                  | X                      |               |                                |      |
| 8453                   |                      | Machinery for preparing, tanning or working hides, skins or leather or for making or repairing footwear or other articles of hides, skins or leather, other than sewing machines; parts thereof: |                        |               |                                |      |
| 8453.10.00             | 00                   | Machinery for preparing, tanning or working hides, skins or leather . . . . .                                                                                                                    | No. . . . .            | Free          |                                | 35%  |
| 8453.20.00             | 00                   | Machinery for making or repairing footwear . . . . .                                                                                                                                             | No. . . . .            | Free          |                                | Free |
| 8453.80.00             | 00                   | Other machinery . . . . .                                                                                                                                                                        | No. . . . .            | Free          |                                | 35%  |
| 8453.90                |                      | Parts:                                                                                                                                                                                           |                        |               |                                |      |
| 8453.90.10             | 00                   | Of machinery for making or repairing footwear . . . . .                                                                                                                                          | X . . . . .            | Free          |                                | Free |
| 8453.90.50             | 00                   | Other . . . . .                                                                                                                                                                                  | X . . . . .            | Free          |                                | 35%  |

# Harmonized Tariff Schedule of the United States (2004)

Annotated for Statistical Reporting Purposes

XVI  
84-50

| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                                          | Unit<br>of<br>Quantity | Rates of Duty |         |     |
|------------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------|---------|-----|
|                        |                      |                                                                                                                              |                        | 1             |         | 2   |
|                        |                      |                                                                                                                              |                        | General       | Special |     |
| 8454                   |                      | Converters, ladles, ingot molds and casting machines, of a kind used in metallurgy or in metal foundries, and parts thereof: |                        |               |         |     |
| 8454.10.00             | 00                   | Converters . . . . .                                                                                                         | No. . . . .            | Free          |         | 35% |
| 8454.20.00             |                      | Ingot molds and ladles . . . . .                                                                                             |                        | Free          |         | 35% |
|                        |                      | Ingot molds:                                                                                                                 |                        |               |         |     |
|                        | 10                   | For steel ingots . . . . .                                                                                                   | No. . . . .            |               |         |     |
|                        | 60                   | Other . . . . .                                                                                                              | No. . . . .            |               |         |     |
|                        | 80                   | Ladles . . . . .                                                                                                             | kg . . . . .           |               |         |     |
| 8454.30.00             |                      | Casting machines . . . . .                                                                                                   |                        | Free          |         | 35% |
|                        | 10                   | Die casting machines . . . . .                                                                                               | No. . . . .            |               |         |     |
|                        | 90                   | Other . . . . .                                                                                                              | No. . . . .            |               |         |     |
| 8454.90.00             |                      | Parts . . . . .                                                                                                              |                        | Free          |         | 35% |
|                        |                      | Of casting machines:                                                                                                         |                        |               |         |     |
|                        | 30                   | Of die casting machines . . . . .                                                                                            | X . . . . .            |               |         |     |
|                        | 60                   | Other . . . . .                                                                                                              | X . . . . .            |               |         |     |
|                        | 70                   | Of ingot molds . . . . .                                                                                                     | X . . . . .            |               |         |     |
|                        | 80                   | Other . . . . .                                                                                                              | X . . . . .            |               |         |     |
| 8455                   |                      | Metal-rolling mills and rolls therefor; parts thereof:                                                                       |                        |               |         |     |
| 8455.10.00             | 00                   | Tube mills . . . . .                                                                                                         | No. . . . .            | Free          |         | 30% |
|                        |                      | Other rolling mills:                                                                                                         |                        |               |         |     |
| 8455.21.00             | 00                   | Hot or combination hot and cold . . . . .                                                                                    | No. . . . .            | Free          |         | 30% |
| 8455.22.00             | 00                   | Cold . . . . .                                                                                                               | No. . . . .            | Free          |         | 30% |
| 8455.30.00             |                      | Rolls for rolling mills . . . . .                                                                                            |                        | Free          |         | 30% |
|                        |                      | Gray iron:                                                                                                                   |                        |               |         |     |
|                        | 05                   | Not exceeding 2,268 kg . . . . .                                                                                             | No. . . . .            |               |         |     |
|                        |                      |                                                                                                                              | kg . . . . .           |               |         |     |
|                        | 15                   | Exceeding 2,268 kg but not exceeding 6,803.9 kg . . . . .                                                                    | No. . . . .            |               |         |     |
|                        |                      |                                                                                                                              | kg . . . . .           |               |         |     |
|                        | 25                   | Exceeding 6,803.9 kg . . . . .                                                                                               | No. . . . .            |               |         |     |
|                        |                      |                                                                                                                              | kg . . . . .           |               |         |     |
|                        |                      | Cast steel:                                                                                                                  |                        |               |         |     |
|                        | 35                   | Not exceeding 2,268 kg . . . . .                                                                                             | No. . . . .            |               |         |     |
|                        |                      |                                                                                                                              | kg . . . . .           |               |         |     |
|                        | 45                   | Exceeding 2,268 kg but not exceeding 6,803.9 kg . . . . .                                                                    | No. . . . .            |               |         |     |
|                        |                      |                                                                                                                              | kg . . . . .           |               |         |     |
|                        | 55                   | Exceeding 6,803.9 kg . . . . .                                                                                               | No. . . . .            |               |         |     |
|                        |                      |                                                                                                                              | kg . . . . .           |               |         |     |
|                        |                      | Other:                                                                                                                       |                        |               |         |     |
|                        | 65                   | Not exceeding 2,268 kg . . . . .                                                                                             | No. . . . .            |               |         |     |
|                        |                      |                                                                                                                              | kg . . . . .           |               |         |     |
|                        | 75                   | Exceeding 2,268 kg but not exceeding 6,803.9 kg . . . . .                                                                    | No. . . . .            |               |         |     |
|                        |                      |                                                                                                                              | kg . . . . .           |               |         |     |
|                        | 85                   | Exceeding 6,803.9 kg . . . . .                                                                                               | No. . . . .            |               |         |     |
|                        |                      |                                                                                                                              | kg . . . . .           |               |         |     |
| 8455.90                |                      | Other parts:                                                                                                                 |                        |               |         |     |
| 8455.90.40             | 00                   | Castings or weldments, individually weighing less than 90 tons, for the machines of heading 8455 . . . . .                   | kg . . . . .           | Free          |         | 30% |
| 8455.90.80             | 00                   | Other . . . . .                                                                                                              | kg . . . . .           | Free          |         | 30% |

# Harmonized Tariff Schedule of the United States (2004)

Annotated for Statistical Reporting Purposes

XVI  
84-51

| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                                                                                                                        | Unit<br>of<br>Quantity | Rates of Duty |                                |     |
|------------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------|--------------------------------|-----|
|                        |                      |                                                                                                                                                                                                            |                        | 1             |                                | 2   |
|                        |                      |                                                                                                                                                                                                            |                        | General       | Special                        |     |
| 8456                   |                      | Machine tools for working any material by removal of material, by laser or other light or photon beam, ultrasonic, electro-discharge, electro-chemical, electron-beam, ionic-beam or plasma arc processes: |                        |               |                                |     |
| 8456.10                |                      | Operated by laser or other light or photon beam processes:                                                                                                                                                 |                        |               |                                |     |
| 8456.10.10             |                      | For working metal . . . . .                                                                                                                                                                                |                        | 3.5%          | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 30% |
|                        | 10                   | Numerically controlled . . . . .                                                                                                                                                                           | No.                    |               |                                |     |
|                        | 20                   | Other . . . . .                                                                                                                                                                                            | No.                    |               |                                |     |
| 8456.10.60             | 00                   | Other:<br>For use in the production of semiconductor wafers; lasercutters for cutting contacting tracks in semiconductor production . . . . .                                                              | No. . . . .            | Free          |                                | 35% |
| 8456.10.80             | 00                   | Other . . . . .                                                                                                                                                                                            | No. . . . .            | 2.4%          | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 35% |
| 8456.20                |                      | Operated by ultrasonic processes:                                                                                                                                                                          |                        |               |                                |     |
| 8456.20.10             |                      | For working metal . . . . .                                                                                                                                                                                |                        | 3.5%          | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 30% |
|                        | 10                   | Numerically controlled . . . . .                                                                                                                                                                           | No.                    |               |                                |     |
|                        | 50                   | Other . . . . .                                                                                                                                                                                            | No.                    |               |                                |     |
| 8456.20.50             | 00                   | Other . . . . .                                                                                                                                                                                            | No. . . . .            | 2.4%          | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 35% |
| 8456.30                |                      | Operated by electro-discharge processes:                                                                                                                                                                   |                        |               |                                |     |
| 8456.30.10             |                      | For working metal . . . . .                                                                                                                                                                                |                        | 3.5%          | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 30% |
|                        | 20                   | Traveling wire (wire-cut) type . . . . .                                                                                                                                                                   | No.                    |               |                                |     |
|                        |                      | Other:                                                                                                                                                                                                     |                        |               |                                |     |
|                        | 50                   | Numerically controlled . . . . .                                                                                                                                                                           | No.                    |               |                                |     |
|                        | 70                   | Other . . . . .                                                                                                                                                                                            | No.                    |               |                                |     |
| 8456.30.50             | 00                   | Other . . . . .                                                                                                                                                                                            | No. . . . .            | 2.4%          | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 35% |

# Harmonized Tariff Schedule of the United States (2004)

Annotated for Statistical Reporting Purposes

XVI  
84-52

| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                                                                                                                               | Unit<br>of<br>Quantity | Rates of Duty |                                |     |
|------------------------|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------|--------------------------------|-----|
|                        |                      |                                                                                                                                                                                                                   |                        | 1             |                                | 2   |
|                        |                      |                                                                                                                                                                                                                   |                        | General       | Special                        |     |
| 8456<br>(con.)         |                      | Machine tools for working any material by removal of material, by laser or other light or photon beam, ultrasonic, electro-discharge, electro-chemical, electron-beam, ionic-beam or plasma arc processes (con.): |                        |               |                                |     |
|                        |                      | Other:                                                                                                                                                                                                            |                        |               |                                |     |
| 8456.91.00             | 00                   | For dry etching patterns on semiconductor materials . . . . .                                                                                                                                                     | No. . . . .            | Free          |                                | 35% |
| 8456.99                |                      | Other:                                                                                                                                                                                                            |                        |               |                                |     |
|                        |                      | For working metal:                                                                                                                                                                                                |                        |               |                                |     |
| 8456.99.10             | 00                   | Focused ion beam milling machines to produce or repair masks and reticles for patterns on semiconductor devices . . . . .                                                                                         | No. . . . .            | Free          |                                | 30% |
| 8456.99.30             |                      | Other . . . . .                                                                                                                                                                                                   |                        | 3.5%          | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 30% |
|                        |                      | Numerically controlled:                                                                                                                                                                                           |                        |               |                                |     |
|                        | 05                   | Of a kind used for cutting metal by electro-chemical process . . . . .                                                                                                                                            | No.                    |               |                                |     |
|                        | 40                   | Other . . . . .                                                                                                                                                                                                   | No.                    |               |                                |     |
|                        | 60                   | Other:                                                                                                                                                                                                            |                        |               |                                |     |
|                        |                      | Of a kind used for cutting metal by electro-chemical process . . . . .                                                                                                                                            | No.                    |               |                                |     |
|                        | 80                   | Other . . . . .                                                                                                                                                                                                   | No.                    |               |                                |     |
| 8456.99.70             | 00                   | Other:                                                                                                                                                                                                            |                        |               |                                |     |
|                        |                      | For stripping and cleaning semiconductor wafers . . . . .                                                                                                                                                         | No. . . . .            | Free          |                                | 35% |
| 8456.99.90             | 00                   | Other . . . . .                                                                                                                                                                                                   | No. . . . .            | 2.2%          | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 35% |
| 8457                   |                      | Machining centers, unit construction machines (single station) and multistation transfer machines, for working metal:                                                                                             |                        |               |                                |     |
| 8457.10.00             |                      | Machining centers . . . . .                                                                                                                                                                                       |                        | 4.2%          | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 30% |
|                        | 05                   | Used or rebuilt . . . . .                                                                                                                                                                                         | No.                    |               |                                |     |
|                        |                      | Other:                                                                                                                                                                                                            |                        |               |                                |     |
|                        |                      | With automatic tool changers:                                                                                                                                                                                     |                        |               |                                |     |
|                        |                      | Vertical-spindle machines with a Y-axis travel of--                                                                                                                                                               |                        |               |                                |     |
|                        | 15                   | Not over 660 mm . . . . .                                                                                                                                                                                         | No.                    |               |                                |     |
|                        | 25                   | Over 660 mm . . . . .                                                                                                                                                                                             | No.                    |               |                                |     |
|                        |                      | Horizontal-spindle machines with a Y-axis travel of--                                                                                                                                                             |                        |               |                                |     |
|                        | 55                   | Not over 685 mm . . . . .                                                                                                                                                                                         | No.                    |               |                                |     |
|                        | 60                   | Over 685 mm but not over 1,016 mm . . . . .                                                                                                                                                                       | No.                    |               |                                |     |
|                        | 65                   | Over 1,016 mm . . . . .                                                                                                                                                                                           | No.                    |               |                                |     |
|                        | 70                   | Other . . . . .                                                                                                                                                                                                   | No.                    |               |                                |     |
|                        | 75                   | Other . . . . .                                                                                                                                                                                                   | No.                    |               |                                |     |
| 8457.20.00             |                      | Unit construction machines (single station) . . . . .                                                                                                                                                             |                        | 3.3%          | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 30% |
|                        | 10                   | Numerically controlled . . . . .                                                                                                                                                                                  | No.                    |               |                                |     |
|                        | 90                   | Other . . . . .                                                                                                                                                                                                   | No.                    |               |                                |     |
| 8457.30.00             |                      | Multistation transfer machines . . . . .                                                                                                                                                                          |                        | 3.3%          | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 30% |
|                        | 10                   | Numerically controlled . . . . .                                                                                                                                                                                  | No.                    |               |                                |     |
|                        | 90                   | Other . . . . .                                                                                                                                                                                                   | No.                    |               |                                |     |



# Harmonized Tariff Schedule of the United States (2004)

Annotated for Statistical Reporting Purposes

XVI  
84-53

| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                           | Unit<br>of<br>Quantity | Rates of Duty |                                    |     |
|------------------------|----------------------|-------------------------------------------------------------------------------|------------------------|---------------|------------------------------------|-----|
|                        |                      |                                                                               |                        | 1             |                                    | 2   |
|                        |                      |                                                                               |                        | General       | Special                            |     |
| 8458                   |                      | Lathes (including turning centers) for removing metal:                        |                        |               |                                    |     |
| 8458.11.00             |                      | Horizontal lathes:                                                            |                        |               |                                    |     |
|                        |                      | Numerically controlled .....                                                  |                        | 4.4%          | Free (A,CA,CL,E,<br>IL,J,JO,MX,SG) | 30% |
|                        | 05                   | Used or rebuilt .....                                                         | No.                    |               |                                    |     |
|                        |                      | Other:                                                                        |                        |               |                                    |     |
|                        | 10                   | Multiple spindle .....                                                        | No.                    |               |                                    |     |
|                        |                      | Other:                                                                        |                        |               |                                    |     |
|                        | 30                   | With a power rating of less than<br>18.65 kW .....                            | No.                    |               |                                    |     |
|                        |                      | Other:                                                                        |                        |               |                                    |     |
|                        | 50                   | With a power rating of 18.65 kW or<br>greater but not exceeding 37.3 kW ..... | No.                    |               |                                    |     |
|                        |                      | Other:                                                                        |                        |               |                                    |     |
|                        | 90                   | With a power rating exceeding<br>37.3 kW .....                                | No.                    |               |                                    |     |
| 8458.19.00             |                      | Other .....                                                                   |                        | 4.4%          | Free (A,CA,CL,E,<br>IL,J,JO,MX,SG) | 30% |
|                        | 10                   | Used or rebuilt .....                                                         | No.                    |               |                                    |     |
|                        | 20                   | Other, valued under \$3,025 each .....                                        | No.                    |               |                                    |     |
|                        |                      | Other:                                                                        |                        |               |                                    |     |
|                        | 30                   | Engine or toolroom lathes .....                                               | No.                    |               |                                    |     |
|                        |                      | Automatic bar and/or chucking machines:                                       |                        |               |                                    |     |
|                        | 50                   | Single spindle .....                                                          | No.                    |               |                                    |     |
|                        | 70                   | Multiple spindle .....                                                        | No.                    |               |                                    |     |
|                        | 90                   | Other .....                                                                   | No.                    |               |                                    |     |
| 8458.91                |                      | Other lathes:                                                                 |                        |               |                                    |     |
| 8458.91.10             |                      | Numerically controlled:                                                       |                        |               |                                    |     |
|                        |                      | Vertical turret lathes .....                                                  |                        | 4.2%          | Free (A,CA,CL,E,<br>IL,J,JO,MX,SG) | 30% |
|                        | 40                   | Used or rebuilt .....                                                         | No.                    |               |                                    |     |
|                        |                      | Other:                                                                        |                        |               |                                    |     |
|                        | 60                   | Multiple spindle .....                                                        | No.                    |               |                                    |     |
|                        | 80                   | Other .....                                                                   | No.                    |               |                                    |     |
| 8458.91.50             |                      | Other .....                                                                   |                        | 4.4%          | Free (A,CA,CL,E,<br>IL,J,JO,MX,SG) | 30% |
|                        | 40                   | Used or rebuilt .....                                                         | No.                    |               |                                    |     |
|                        |                      | Other:                                                                        |                        |               |                                    |     |
|                        | 50                   | Multiple spindle .....                                                        | No.                    |               |                                    |     |
|                        | 70                   | Other .....                                                                   | No.                    |               |                                    |     |
| 8458.99                |                      | Other:                                                                        |                        |               |                                    |     |
| 8458.99.10             |                      | Vertical turret lathes .....                                                  |                        | 4.2%          | Free (A,CA,CL,E,<br>IL,J,JO,MX,SG) | 30% |
|                        | 10                   | Used or rebuilt .....                                                         | No.                    |               |                                    |     |
|                        | 50                   | Other .....                                                                   | No.                    |               |                                    |     |
| 8458.99.50             |                      | Other .....                                                                   |                        | 4.4%          | Free (A,CA,CL,E,<br>IL,J,JO,MX,SG) | 30% |
|                        | 30                   | Used or rebuilt .....                                                         | No.                    |               |                                    |     |
|                        | 60                   | Other, valued under \$3,025 each .....                                        | No.                    |               |                                    |     |
|                        | 90                   | Other .....                                                                   | No.                    |               |                                    |     |

# Harmonized Tariff Schedule of the United States (2004)

Annotated for Statistical Reporting Purposes

XVI  
84-54

| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                                                                                                         | Unit<br>of<br>Quantity | Rates of Duty |                                    |     |
|------------------------|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------|------------------------------------|-----|
|                        |                      |                                                                                                                                                                                             |                        | 1             |                                    | 2   |
|                        |                      |                                                                                                                                                                                             |                        | General       | Special                            |     |
| 8459                   |                      | Machine tools (including way-type unit head machines) for drilling, boring, milling, threading or tapping by removing metal, other than lathes (including turning centers) of heading 8458: |                        |               |                                    |     |
| 8459.10.00             | 00                   | Way-type unit head machines . . . . .                                                                                                                                                       | No. . . . .            | 3.3%          | Free (A,CA,CL,E,<br>IL,J,JO,MX,SG) | 30% |
| 8459.21.00             |                      | Other drilling machines:                                                                                                                                                                    |                        |               |                                    |     |
|                        |                      | Numerically controlled . . . . .                                                                                                                                                            |                        | 4.2%          | Free (A,CA,CL,E,<br>IL,J,JO,MX,SG) | 30% |
|                        | 40                   | Used or rebuilt . . . . .                                                                                                                                                                   | No.                    |               |                                    |     |
|                        | 80                   | Other . . . . .                                                                                                                                                                             | No.                    |               |                                    |     |
| 8459.29.00             |                      | Other . . . . .                                                                                                                                                                             |                        | 4.2%          | Free (A,CA,CL,E,<br>IL,J,JO,MX,SG) | 30% |
|                        | 10                   | Used or rebuilt . . . . .                                                                                                                                                                   | No.                    |               |                                    |     |
|                        | 20                   | Other, valued under \$3,025 each . . . . .                                                                                                                                                  | No.                    |               |                                    |     |
|                        |                      | Other:                                                                                                                                                                                      |                        |               |                                    |     |
|                        | 40                   | Multiple spindle . . . . .                                                                                                                                                                  | No.                    |               |                                    |     |
|                        |                      | Other:                                                                                                                                                                                      |                        |               |                                    |     |
|                        | 50                   | Radial . . . . .                                                                                                                                                                            | No.                    |               |                                    |     |
|                        | 70                   | Upright, excluding sensitive (hand-directed), turret and deep-hole machines . . . . .                                                                                                       | No.                    |               |                                    |     |
|                        | 90                   | Other . . . . .                                                                                                                                                                             | No.                    |               |                                    |     |
| 8459.31.00             |                      | Other boring-milling machines:                                                                                                                                                              |                        |               |                                    |     |
|                        |                      | Numerically controlled . . . . .                                                                                                                                                            |                        | 4.2%          | Free (A,CA,CL,E,<br>IL,J,JO,MX,SG) | 30% |
|                        | 05                   | Used or rebuilt . . . . .                                                                                                                                                                   | No.                    |               |                                    |     |
|                        |                      | Other:                                                                                                                                                                                      |                        |               |                                    |     |
|                        |                      | Horizontal spindle:                                                                                                                                                                         |                        |               |                                    |     |
|                        | 10                   | Table type, excluding planer type . . . . .                                                                                                                                                 | No.                    |               |                                    |     |
|                        | 40                   | Other . . . . .                                                                                                                                                                             | No.                    |               |                                    |     |
|                        | 70                   | Other . . . . .                                                                                                                                                                             | No.                    |               |                                    |     |
| 8459.39.00             |                      | Other . . . . .                                                                                                                                                                             |                        | 4.2%          | Free (A,CA,CL,E,<br>IL,J,JO,MX,SG) | 30% |
|                        | 10                   | Used or rebuilt . . . . .                                                                                                                                                                   | No.                    |               |                                    |     |
|                        | 20                   | Other, valued under \$3,025 each . . . . .                                                                                                                                                  | No.                    |               |                                    |     |
|                        |                      | Other:                                                                                                                                                                                      |                        |               |                                    |     |
|                        | 40                   | Horizontal spindle . . . . .                                                                                                                                                                | No.                    |               |                                    |     |
|                        | 50                   | Other . . . . .                                                                                                                                                                             | No.                    |               |                                    |     |
| 8459.40.00             |                      | Other boring machines . . . . .                                                                                                                                                             |                        | 4.2%          | Free (A,CA,CL,E,<br>IL,J,JO,MX,SG) | 30% |
|                        | 10                   | Used or rebuilt . . . . .                                                                                                                                                                   | No.                    |               |                                    |     |
|                        | 20                   | Other, valued under \$3,025 each . . . . .                                                                                                                                                  | No.                    |               |                                    |     |
|                        |                      | Other:                                                                                                                                                                                      |                        |               |                                    |     |
|                        |                      | Vertical:                                                                                                                                                                                   |                        |               |                                    |     |
|                        | 40                   | Numerically controlled . . . . .                                                                                                                                                            | No.                    |               |                                    |     |
|                        | 50                   | Other . . . . .                                                                                                                                                                             | No.                    |               |                                    |     |
|                        |                      | Other:                                                                                                                                                                                      |                        |               |                                    |     |
|                        | 70                   | Numerically controlled . . . . .                                                                                                                                                            | No.                    |               |                                    |     |
|                        | 80                   | Other . . . . .                                                                                                                                                                             | No.                    |               |                                    |     |

# Harmonized Tariff Schedule of the United States (2004)

Annotated for Statistical Reporting Purposes

XVI  
84-55

| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                                                                                                                | Unit<br>of<br>Quantity | Rates of Duty                      |         |   |
|------------------------|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|------------------------------------|---------|---|
|                        |                      |                                                                                                                                                                                                    |                        | 1                                  |         | 2 |
|                        |                      |                                                                                                                                                                                                    |                        | General                            | Special |   |
| 8459<br>(con.)         |                      | Machine tools (including way-type unit head machines) for drilling, boring, milling, threading or tapping by removing metal, other than lathes (including turning centers) of heading 8458 (con.): |                        |                                    |         |   |
| 8459.51.00             |                      | Milling machines, knee type:                                                                                                                                                                       |                        |                                    |         |   |
|                        |                      | Numerically controlled .....                                                                                                                                                                       | 4.2%                   | Free (A,CA,CL,E,<br>IL,J,JO,MX,SG) | 30%     |   |
|                        | 40                   | Used or rebuilt .....                                                                                                                                                                              | No.                    |                                    |         |   |
|                        | 80                   | Other .....                                                                                                                                                                                        | No.                    |                                    |         |   |
| 8459.59.00             |                      | Other .....                                                                                                                                                                                        | 4.2%                   | Free (A,CA,CL,E,<br>IL,J,JO,MX,SG) | 30%     |   |
|                        | 10                   | Used or rebuilt .....                                                                                                                                                                              | No.                    |                                    |         |   |
|                        | 20                   | Other, valued under \$3,025 each .....                                                                                                                                                             | No.                    |                                    |         |   |
|                        | 30                   | Other .....                                                                                                                                                                                        | No.                    |                                    |         |   |
| 8459.61.00             |                      | Other milling machines:                                                                                                                                                                            |                        |                                    |         |   |
|                        |                      | Numerically controlled .....                                                                                                                                                                       | 4.2%                   | Free (A,CA,CL,E,<br>IL,J,JO,MX,SG) | 30%     |   |
|                        | 40                   | Used or rebuilt .....                                                                                                                                                                              | No.                    |                                    |         |   |
|                        | 80                   | Other .....                                                                                                                                                                                        | No.                    |                                    |         |   |
| 8459.69.00             |                      | Other .....                                                                                                                                                                                        | 4.2%                   | Free (A,CA,CL,E,<br>IL,J,JO,MX,SG) | 30%     |   |
|                        | 10                   | Used or rebuilt .....                                                                                                                                                                              | No.                    |                                    |         |   |
|                        | 20                   | Other, valued under \$3,025 each .....                                                                                                                                                             | No.                    |                                    |         |   |
|                        |                      | Other:                                                                                                                                                                                             |                        |                                    |         |   |
|                        | 50                   | Profile, duplicating or die sinking .....                                                                                                                                                          | No.                    |                                    |         |   |
|                        | 70                   | Bed type .....                                                                                                                                                                                     | No.                    |                                    |         |   |
|                        | 90                   | Other .....                                                                                                                                                                                        | No.                    |                                    |         |   |
| 8459.70                |                      | Other threading or tapping machines:                                                                                                                                                               |                        |                                    |         |   |
| 8459.70.40             | 00                   | Numerically controlled .....                                                                                                                                                                       | No. .... 4.2%          | Free (A,CA,CL,E,<br>IL,J,JO,MX,SG) | 30%     |   |
| 8459.70.80             |                      | Other .....                                                                                                                                                                                        | 4.2%                   | Free (A,CA,CL,E,<br>IL,J,JO,MX,SG) | 30%     |   |
|                        | 40                   | Used or rebuilt .....                                                                                                                                                                              | No.                    |                                    |         |   |
|                        | 60                   | Other, valued under \$3,025 each .....                                                                                                                                                             | No.                    |                                    |         |   |
|                        | 80                   | Other .....                                                                                                                                                                                        | No.                    |                                    |         |   |

# Harmonized Tariff Schedule of the United States (2004)

Annotated for Statistical Reporting Purposes

XVI  
84-56

| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                                                                                                                                                                                    | Unit<br>of<br>Quantity | Rates of Duty                  |         |   |
|------------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------------------------|---------|---|
|                        |                      |                                                                                                                                                                                                                                                                        |                        | 1                              |         | 2 |
|                        |                      |                                                                                                                                                                                                                                                                        |                        | General                        | Special |   |
| 8460                   |                      | Machine tools for deburring, sharpening, grinding, honing, lapping, polishing or otherwise finishing metal or cermets by means of grinding stones, abrasives or polishing products, other than gear cutting, gear grinding or gear finishing machines of heading 8461: |                        |                                |         |   |
|                        |                      | Flat-surface grinding machines, in which the positioning in any one axis can be set up to an accuracy of at least 0.01 mm:                                                                                                                                             |                        |                                |         |   |
| 8460.11.00             |                      | Numerically controlled .....                                                                                                                                                                                                                                           | 4.4%                   | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 30%     |   |
|                        | 40                   | Used or rebuilt .....                                                                                                                                                                                                                                                  | No.                    |                                |         |   |
|                        | 80                   | Other .....                                                                                                                                                                                                                                                            | No.                    |                                |         |   |
| 8460.19.00             |                      | Other .....                                                                                                                                                                                                                                                            | 4.4%                   | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 30%     |   |
|                        | 05                   | Used or rebuilt .....                                                                                                                                                                                                                                                  | No.                    |                                |         |   |
|                        | 10                   | Other:                                                                                                                                                                                                                                                                 |                        |                                |         |   |
|                        | 50                   | Reciprocating-table type .....                                                                                                                                                                                                                                         | No.                    |                                |         |   |
|                        |                      | Other .....                                                                                                                                                                                                                                                            | No.                    |                                |         |   |
|                        |                      | Other grinding machines, in which the positioning in any one axis can be set up to an accuracy of at least 0.01 mm:                                                                                                                                                    |                        |                                |         |   |
| 8460.21.00             |                      | Numerically controlled .....                                                                                                                                                                                                                                           | 4.4%                   | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 30%     |   |
|                        | 40                   | Used or rebuilt .....                                                                                                                                                                                                                                                  | No.                    |                                |         |   |
|                        | 80                   | Other .....                                                                                                                                                                                                                                                            | No.                    |                                |         |   |
| 8460.29.00             |                      | Other .....                                                                                                                                                                                                                                                            | 4.4%                   | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 30%     |   |
|                        | 05                   | Used or rebuilt .....                                                                                                                                                                                                                                                  | No.                    |                                |         |   |
|                        | 10                   | Other:                                                                                                                                                                                                                                                                 |                        |                                |         |   |
|                        | 30                   | External cylindrical, including universal .....                                                                                                                                                                                                                        | No.                    |                                |         |   |
|                        | 50                   | Internal cylindrical .....                                                                                                                                                                                                                                             | No.                    |                                |         |   |
|                        |                      | Other .....                                                                                                                                                                                                                                                            | No.                    |                                |         |   |
|                        |                      | Sharpening (tool or cutter grinding) machines:                                                                                                                                                                                                                         |                        |                                |         |   |
| 8460.31.00             |                      | Numerically controlled .....                                                                                                                                                                                                                                           | 4.4%                   | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 30%     |   |
|                        | 40                   | Used or rebuilt .....                                                                                                                                                                                                                                                  | No.                    |                                |         |   |
|                        | 80                   | Other .....                                                                                                                                                                                                                                                            | No.                    |                                |         |   |
| 8460.39.00             |                      | Other .....                                                                                                                                                                                                                                                            | 4.4%                   | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 30%     |   |
|                        | 10                   | Used or rebuilt .....                                                                                                                                                                                                                                                  | No.                    |                                |         |   |
|                        | 20                   | Other, valued under \$3,025 each .....                                                                                                                                                                                                                                 | No.                    |                                |         |   |
|                        | 50                   | Other .....                                                                                                                                                                                                                                                            | No.                    |                                |         |   |
| 8460.40                |                      | Honing or lapping machines:                                                                                                                                                                                                                                            |                        |                                |         |   |
| 8460.40.40             |                      | Numerically controlled .....                                                                                                                                                                                                                                           | 4.4%                   | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 30%     |   |
|                        | 10                   | Used or rebuilt .....                                                                                                                                                                                                                                                  | No.                    |                                |         |   |
|                        | 60                   | Other .....                                                                                                                                                                                                                                                            | No.                    |                                |         |   |
| 8460.40.80             |                      | Other .....                                                                                                                                                                                                                                                            | 4.4%                   | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 30%     |   |
|                        | 10                   | Used or rebuilt .....                                                                                                                                                                                                                                                  | No.                    |                                |         |   |
|                        | 20                   | Other, valued under \$3,025 each .....                                                                                                                                                                                                                                 | No.                    |                                |         |   |
|                        | 80                   | Other .....                                                                                                                                                                                                                                                            | No.                    |                                |         |   |
| 8460.90                |                      | Other:                                                                                                                                                                                                                                                                 |                        |                                |         |   |
| 8460.90.40             |                      | Numerically controlled .....                                                                                                                                                                                                                                           | 4.4%                   | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 30%     |   |
|                        | 10                   | Used or rebuilt .....                                                                                                                                                                                                                                                  | No.                    |                                |         |   |
|                        | 60                   | Other .....                                                                                                                                                                                                                                                            | No.                    |                                |         |   |
| 8460.90.80             |                      | Other .....                                                                                                                                                                                                                                                            | 4.4%                   | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 30%     |   |
|                        | 10                   | Used or rebuilt .....                                                                                                                                                                                                                                                  | No.                    |                                |         |   |
|                        | 20                   | Other, valued under \$3,025 each .....                                                                                                                                                                                                                                 | No.                    |                                |         |   |
|                        | 80                   | Other .....                                                                                                                                                                                                                                                            | No.                    |                                |         |   |

# Harmonized Tariff Schedule of the United States (2004)

Annotated for Statistical Reporting Purposes

XVI  
84-57

| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                                                                                                                                            | Unit<br>of<br>Quantity | Rates of Duty |                                              |     |
|------------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------|----------------------------------------------|-----|
|                        |                      |                                                                                                                                                                                                                                |                        | 1             |                                              | 2   |
|                        |                      |                                                                                                                                                                                                                                |                        | General       | Special                                      |     |
| 8461                   |                      | Machine tools for planing, shaping, slotting, broaching, gear cutting, gear grinding or gear finishing, sawing, cutting-off and other machine tools working by removing metal or cermets, not elsewhere specified or included: |                        |               |                                              |     |
| 8461.20                |                      | Shaping or slotting machines:                                                                                                                                                                                                  |                        |               |                                              |     |
| 8461.20.40             | 00                   | Numerically controlled . . . . .                                                                                                                                                                                               | No. . . . .            | 4.4%          | Free (A,CA,CL,E,<br>IL,J,JO,MX,SG)           | 30% |
| 8461.20.80             |                      | Other . . . . .                                                                                                                                                                                                                |                        | 4.4%          | Free (A,CA,CL,E,<br>IL,J,JO,MX,SG)           | 30% |
|                        | 30                   | Used or rebuilt . . . . .                                                                                                                                                                                                      | No.                    |               |                                              |     |
|                        | 70                   | Other, valued under \$3,025 each . . . . .                                                                                                                                                                                     | No.                    |               |                                              |     |
|                        | 90                   | Other . . . . .                                                                                                                                                                                                                | No.                    |               |                                              |     |
| 8461.30                |                      | Broaching machines:                                                                                                                                                                                                            |                        |               |                                              |     |
| 8461.30.40             |                      | Numerically controlled . . . . .                                                                                                                                                                                               |                        | 4.4%          | Free (A,CA,CL,E,<br>IL,J,JO,MX,SG)           | 30% |
|                        | 20                   | Used or rebuilt . . . . .                                                                                                                                                                                                      | No.                    |               |                                              |     |
|                        | 60                   | Other . . . . .                                                                                                                                                                                                                | No.                    |               |                                              |     |
| 8461.30.80             |                      | Other . . . . .                                                                                                                                                                                                                |                        | 4.4%          | Free (A,CA,CL,E,<br>IL,J,JO,MX,SG)           | 30% |
|                        | 20                   | Used or rebuilt . . . . .                                                                                                                                                                                                      | No.                    |               |                                              |     |
|                        | 40                   | Other, valued under \$3,025 each . . . . .                                                                                                                                                                                     | No.                    |               |                                              |     |
|                        | 80                   | Other . . . . .                                                                                                                                                                                                                | No.                    |               |                                              |     |
| 8461.40                |                      | Gear cutting, gear grinding or gear finishing machines:                                                                                                                                                                        |                        |               |                                              |     |
| 8461.40.10             |                      | Gear cutting machines . . . . .                                                                                                                                                                                                |                        | 5.8%          | Free (A,CA,CL,E,<br>IL,J,JO,MX)<br>4.3% (SG) | 40% |
|                        | 10                   | Used or rebuilt . . . . .                                                                                                                                                                                                      | No.                    |               |                                              |     |
|                        | 20                   | Other:                                                                                                                                                                                                                         |                        |               |                                              |     |
|                        |                      | For bevel gears . . . . .                                                                                                                                                                                                      | No.                    |               |                                              |     |
|                        |                      | Other:                                                                                                                                                                                                                         |                        |               |                                              |     |
|                        | 30                   | Gear hobbers . . . . .                                                                                                                                                                                                         | No.                    |               |                                              |     |
|                        | 40                   | Gear shapers . . . . .                                                                                                                                                                                                         | No.                    |               |                                              |     |
|                        | 60                   | Other . . . . .                                                                                                                                                                                                                | No.                    |               |                                              |     |
| 8461.40.50             |                      | Gear grinding or finishing machines . . . . .                                                                                                                                                                                  |                        | 4.4%          | Free (A,CA,CL,E,<br>IL,J,JO,MX,SG)           | 30% |
|                        | 20                   | Used or rebuilt . . . . .                                                                                                                                                                                                      | No.                    |               |                                              |     |
|                        | 40                   | Other, valued under \$3,025 each . . . . .                                                                                                                                                                                     | No.                    |               |                                              |     |
|                        |                      | Other:                                                                                                                                                                                                                         |                        |               |                                              |     |
|                        | 50                   | For bevel gears . . . . .                                                                                                                                                                                                      | No.                    |               |                                              |     |
|                        | 70                   | Other . . . . .                                                                                                                                                                                                                | No.                    |               |                                              |     |

# Harmonized Tariff Schedule of the United States (2004)

Annotated for Statistical Reporting Purposes

XVI  
84-58

| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                                                                                                                                                   | Unit<br>of<br>Quantity | Rates of Duty                      |         |   |
|------------------------|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|------------------------------------|---------|---|
|                        |                      |                                                                                                                                                                                                                                       |                        | 1                                  |         | 2 |
|                        |                      |                                                                                                                                                                                                                                       |                        | General                            | Special |   |
| 8461<br>(con.)         |                      | Machine tools for planing, shaping, slotting, broaching, gear cutting, gear grinding or gear finishing, sawing, cutting-off and other machine tools working by removing metal or cermets, not elsewhere specified or included (con.): |                        |                                    |         |   |
| 8461.50                |                      | Sawing or cutting-off machines:                                                                                                                                                                                                       |                        |                                    |         |   |
| 8461.50.40             |                      | Numerically controlled .....                                                                                                                                                                                                          | 4.4%                   | Free (A,CA,CL,E,<br>IL,J,JO,MX,SG) | 30%     |   |
|                        | 10                   | Used or rebuilt .....                                                                                                                                                                                                                 | No.                    |                                    |         |   |
|                        | 50                   | Other .....                                                                                                                                                                                                                           | No.                    |                                    |         |   |
| 8461.50.80             |                      | Other .....                                                                                                                                                                                                                           | 4.4%                   | Free (A,CA,CL,E,<br>IL,J,JO,MX,SG) | 30%     |   |
|                        | 10                   | Used or rebuilt .....                                                                                                                                                                                                                 | No.                    |                                    |         |   |
|                        | 20                   | Other, valued under \$3,025 each .....                                                                                                                                                                                                | No.                    |                                    |         |   |
|                        | 90                   | Other .....                                                                                                                                                                                                                           | No.                    |                                    |         |   |
| 8461.90                |                      | Other:                                                                                                                                                                                                                                |                        |                                    |         |   |
| 8461.90.30             |                      | Numerically controlled .....                                                                                                                                                                                                          | 4.4%                   | Free (A,CA,CL,E,<br>IL,J,JO,MX,SG) | 30%     |   |
|                        | 20                   | Planing machines:                                                                                                                                                                                                                     |                        |                                    |         |   |
|                        | 40                   | Used or rebuilt .....                                                                                                                                                                                                                 | No.                    |                                    |         |   |
|                        |                      | Other .....                                                                                                                                                                                                                           | No.                    |                                    |         |   |
|                        | 60                   | Other:                                                                                                                                                                                                                                |                        |                                    |         |   |
|                        | 80                   | Used or rebuilt .....                                                                                                                                                                                                                 | No.                    |                                    |         |   |
|                        |                      | Other .....                                                                                                                                                                                                                           | No.                    |                                    |         |   |
| 8461.90.60             |                      | Other .....                                                                                                                                                                                                                           | 4.4%                   | Free (A,CA,CL,E,<br>IL,J,JO,MX,SG) | 30%     |   |
|                        | 10                   | Planing machines:                                                                                                                                                                                                                     |                        |                                    |         |   |
|                        | 20                   | Used or rebuilt .....                                                                                                                                                                                                                 | No.                    |                                    |         |   |
|                        | 30                   | Other, valued under \$3,025 each .....                                                                                                                                                                                                | No.                    |                                    |         |   |
|                        |                      | Other .....                                                                                                                                                                                                                           | No.                    |                                    |         |   |
|                        | 40                   | Other:                                                                                                                                                                                                                                |                        |                                    |         |   |
|                        | 50                   | Used or rebuilt .....                                                                                                                                                                                                                 | No.                    |                                    |         |   |
|                        | 90                   | Other, valued under \$3,025 each .....                                                                                                                                                                                                | No.                    |                                    |         |   |
|                        |                      | Other .....                                                                                                                                                                                                                           | No.                    |                                    |         |   |

# Harmonized Tariff Schedule of the United States (2004)

Annotated for Statistical Reporting Purposes

XVI  
84-59

| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                                                                                                                                                                                                              | Unit<br>of<br>Quantity | Rates of Duty      |                                |     |
|------------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------------|--------------------------------|-----|
|                        |                      |                                                                                                                                                                                                                                                                                                  |                        | 1                  |                                | 2   |
|                        |                      |                                                                                                                                                                                                                                                                                                  |                        | General            | Special                        |     |
| 8462                   |                      | Machine tools (including presses) for working metal by forging, hammering or die-stamping; machine tools (including presses) for working metal by bending, folding, straightening, flattening, shearing, punching or notching; presses for working metal or metal carbides, not specified above: |                        |                    |                                |     |
| 8462.10.00             |                      | Forging or die-stamping machines (including presses) and hammers .....                                                                                                                                                                                                                           |                        | 4.4%               | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 30% |
|                        | 10                   | Used or rebuilt .....                                                                                                                                                                                                                                                                            | No.                    |                    |                                |     |
|                        |                      | Other:                                                                                                                                                                                                                                                                                           |                        |                    |                                |     |
|                        | 30                   | Headers and upsetters, including cold headers                                                                                                                                                                                                                                                    | No.                    |                    |                                |     |
|                        | 35                   | Mechanical transfer presses .....                                                                                                                                                                                                                                                                | No.                    |                    |                                |     |
|                        | 55                   | Other .....                                                                                                                                                                                                                                                                                      | No.                    |                    |                                |     |
|                        |                      | Bending, folding, straightening or flattening machines (including presses):                                                                                                                                                                                                                      |                        |                    |                                |     |
|                        |                      | Numerically controlled:                                                                                                                                                                                                                                                                          |                        |                    |                                |     |
| 8462.21                |                      | For bending, folding and straightening                                                                                                                                                                                                                                                           |                        |                    |                                |     |
| 8462.21.40             |                      | semiconductor leads .....                                                                                                                                                                                                                                                                        |                        | Free               |                                | 30% |
|                        | 45                   | Used or rebuilt .....                                                                                                                                                                                                                                                                            | No.                    |                    |                                |     |
|                        | 85                   | Other .....                                                                                                                                                                                                                                                                                      | No.                    |                    |                                |     |
| 8462.21.80             |                      | Other .....                                                                                                                                                                                                                                                                                      |                        | 4.4% <sup>1/</sup> | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 30% |
|                        | 45                   | Used or rebuilt .....                                                                                                                                                                                                                                                                            | No.                    |                    |                                |     |
|                        | 85                   | Other .....                                                                                                                                                                                                                                                                                      | No.                    |                    |                                |     |
| 8462.29                |                      | Other:                                                                                                                                                                                                                                                                                           |                        |                    |                                |     |
| 8462.29.40             |                      | For bending, folding and                                                                                                                                                                                                                                                                         |                        |                    |                                |     |
|                        |                      | straightening semiconductor leads .....                                                                                                                                                                                                                                                          |                        | Free               |                                | 30% |
|                        | 45                   | Used or rebuilt .....                                                                                                                                                                                                                                                                            | No.                    |                    |                                |     |
|                        | 85                   | Other .....                                                                                                                                                                                                                                                                                      | No.                    |                    |                                |     |
| 8462.29.80             |                      | Other .....                                                                                                                                                                                                                                                                                      |                        | 4.4% <sup>1/</sup> | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 30% |
|                        | 15                   | Used or rebuilt .....                                                                                                                                                                                                                                                                            | No.                    |                    |                                |     |
|                        | 25                   | Other, valued under \$3,025 each .....                                                                                                                                                                                                                                                           | No.                    |                    |                                |     |
|                        |                      | Other:                                                                                                                                                                                                                                                                                           |                        |                    |                                |     |
|                        | 35                   | Press brakes .....                                                                                                                                                                                                                                                                               | No.                    |                    |                                |     |
|                        | 45                   | Bending rolls .....                                                                                                                                                                                                                                                                              | No.                    |                    |                                |     |
|                        | 55                   | Other .....                                                                                                                                                                                                                                                                                      | No.                    |                    |                                |     |
|                        |                      | Shearing machines (including presses), other than combined punching and shearing machines:                                                                                                                                                                                                       |                        |                    |                                |     |
| 8462.31.00             |                      | Numerically controlled .....                                                                                                                                                                                                                                                                     |                        | 4.4%               | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 30% |
|                        | 40                   | Used or rebuilt .....                                                                                                                                                                                                                                                                            | No.                    |                    |                                |     |
|                        | 80                   | Other .....                                                                                                                                                                                                                                                                                      | No.                    |                    |                                |     |
| 8462.39.00             |                      | Other .....                                                                                                                                                                                                                                                                                      |                        | 4.4%               | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 30% |
|                        | 10                   | Used or rebuilt .....                                                                                                                                                                                                                                                                            | No.                    |                    |                                |     |
|                        | 20                   | Other, valued under \$3,025 each .....                                                                                                                                                                                                                                                           | No.                    |                    |                                |     |
|                        | 50                   | Other .....                                                                                                                                                                                                                                                                                      | No.                    |                    |                                |     |

<sup>1/</sup> See subheadings 9817.84.01 and 9902.84.40.

# Harmonized Tariff Schedule of the United States (2004)

Annotated for Statistical Reporting Purposes

XVI  
84-60

| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                                                                                                                                                                                                                     | Unit<br>of<br>Quantity | Rates of Duty  |                                |     |
|------------------------|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|----------------|--------------------------------|-----|
|                        |                      |                                                                                                                                                                                                                                                                                                         |                        | 1              |                                | 2   |
|                        |                      |                                                                                                                                                                                                                                                                                                         |                        | General        | Special                        |     |
| 8462<br>(con.)         |                      | Machine tools (including presses) for working metal by forging, hammering or die-stamping; machine tools (including presses) for working metal by bending, folding, straightening, flattening, shearing, punching or notching; presses for working metal or metal carbides, not specified above (con.): |                        |                |                                |     |
| 8462.41.00             |                      | Punching or notching machines (including presses), including combined punching and shearing machines:<br>Numerically controlled .....                                                                                                                                                                   |                        | 4.4% <u>1/</u> | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 30% |
|                        | 40                   | Used or rebuilt .....                                                                                                                                                                                                                                                                                   | No.                    |                |                                |     |
|                        | 80                   | Other .....                                                                                                                                                                                                                                                                                             | No.                    |                |                                |     |
| 8462.49.00             |                      | Other .....                                                                                                                                                                                                                                                                                             |                        | 4.4% <u>1/</u> | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 30% |
|                        | 10                   | Used or rebuilt .....                                                                                                                                                                                                                                                                                   | No.                    |                |                                |     |
|                        | 20                   | Other, valued under \$3,025 each .....                                                                                                                                                                                                                                                                  | No.                    |                |                                |     |
|                        | 50                   | Other .....                                                                                                                                                                                                                                                                                             | No.                    |                |                                |     |
| 8462.91                |                      | Other:                                                                                                                                                                                                                                                                                                  |                        |                |                                |     |
| 8462.91.40             |                      | Hydraulic presses:                                                                                                                                                                                                                                                                                      |                        |                |                                |     |
|                        |                      | Numerically controlled .....                                                                                                                                                                                                                                                                            |                        | 4.4%           | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 30% |
|                        | 30                   | Used or rebuilt .....                                                                                                                                                                                                                                                                                   | No.                    |                |                                |     |
|                        | 60                   | Other .....                                                                                                                                                                                                                                                                                             | No.                    |                |                                |     |
| 8462.91.80             |                      | Other .....                                                                                                                                                                                                                                                                                             |                        | 4.4%           | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 30% |
|                        | 30                   | Used or rebuilt .....                                                                                                                                                                                                                                                                                   | No.                    |                |                                |     |
|                        | 90                   | Other .....                                                                                                                                                                                                                                                                                             | No.                    |                |                                |     |
| 8462.99                |                      | Other:                                                                                                                                                                                                                                                                                                  |                        |                |                                |     |
| 8462.99.40             |                      | Numerically controlled .....                                                                                                                                                                                                                                                                            |                        | 4.4%           | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 30% |
|                        | 10                   | Used or rebuilt .....                                                                                                                                                                                                                                                                                   | No.                    |                |                                |     |
|                        | 30                   | Other .....                                                                                                                                                                                                                                                                                             | No.                    |                |                                |     |
| 8462.99.80             |                      | Other .....                                                                                                                                                                                                                                                                                             |                        | 4.4% <u>2/</u> | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 30% |
|                        | 10                   | Used or rebuilt .....                                                                                                                                                                                                                                                                                   | No.                    |                |                                |     |
|                        | 20                   | Other, valued under \$3,025 each .....                                                                                                                                                                                                                                                                  | No.                    |                |                                |     |
|                        |                      | Other:                                                                                                                                                                                                                                                                                                  |                        |                |                                |     |
|                        | 45                   | Mechanical presses .....                                                                                                                                                                                                                                                                                | No.                    |                |                                |     |
|                        | 60                   | Other .....                                                                                                                                                                                                                                                                                             | No.                    |                |                                |     |

1/ See subheading 9817.84.01.

2/ See subheading 9902.84.70.



# Harmonized Tariff Schedule of the United States (2004)

Annotated for Statistical Reporting Purposes

XVI  
84-61

| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                                       | Unit<br>of<br>Quantity | Rates of Duty      |                                |     |
|------------------------|----------------------|---------------------------------------------------------------------------------------------------------------------------|------------------------|--------------------|--------------------------------|-----|
|                        |                      |                                                                                                                           |                        | 1                  |                                | 2   |
|                        |                      |                                                                                                                           |                        | General            | Special                        |     |
| 8463                   |                      | Other machine tools for working metal or cermets, without removing material:                                              |                        |                    |                                |     |
| 8463.10.00             |                      | Draw-benches for bars, tubes, profiles, wire or the like                                                                  |                        | 4.4%               | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 30% |
|                        | 40                   | Used or rebuilt                                                                                                           | No.                    |                    |                                |     |
|                        | 60                   | Other, valued under \$3,025 each                                                                                          | No.                    |                    |                                |     |
|                        | 80                   | Other                                                                                                                     | No.                    |                    |                                |     |
| 8463.20.00             |                      | Thread rolling machines                                                                                                   |                        | 4.4%               | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 30% |
|                        | 40                   | Used or rebuilt                                                                                                           | No.                    |                    |                                |     |
|                        | 60                   | Other, valued under \$3,025 each                                                                                          | No.                    |                    |                                |     |
|                        | 80                   | Other                                                                                                                     | No.                    |                    |                                |     |
| 8463.30.00             |                      | Machines for working wire                                                                                                 |                        | 4.4% <sup>1/</sup> | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 30% |
|                        | 40                   | Used or rebuilt                                                                                                           | No.                    |                    |                                |     |
|                        | 60                   | Other, valued under \$3,025 each                                                                                          | No.                    |                    |                                |     |
|                        | 80                   | Other                                                                                                                     | No.                    |                    |                                |     |
| 8463.90.00             |                      | Other                                                                                                                     |                        | 4.4%               | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 30% |
|                        | 40                   | Used or rebuilt                                                                                                           | No.                    |                    |                                |     |
|                        | 60                   | Other, valued under \$3,025 each                                                                                          | No.                    |                    |                                |     |
|                        | 80                   | Other                                                                                                                     | No.                    |                    |                                |     |
| 8464                   |                      | Machine tools for working stone, ceramics, concrete, asbestos-cement or like mineral materials or for cold working glass: |                        |                    |                                |     |
| 8464.10.00             |                      | Sawing machines                                                                                                           |                        | Free               |                                | 35% |
|                        | 40                   | Machines designed to saw (slice) blank semiconductor wafers from crystal boules of semiconductor grade materials          | No.                    |                    |                                |     |
|                        | 80                   | Other                                                                                                                     | No.                    |                    |                                |     |
| 8464.20                |                      | Grinding or polishing machines:                                                                                           |                        |                    |                                |     |
| 8464.20.10             | 00                   | For processing of semiconductor wafers                                                                                    | No.                    | Free               |                                | 35% |
| 8464.20.50             |                      | Other                                                                                                                     |                        | 2%                 | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 35% |
|                        | 10                   | Glass-working machines                                                                                                    | No.                    |                    |                                |     |
|                        | 90                   | Other                                                                                                                     | No.                    |                    |                                |     |
| 8464.90                |                      | Other:                                                                                                                    |                        |                    |                                |     |
| 8464.90.10             |                      | For scribing or scoring semiconductor wafers; for wet-etching semiconductor wafers                                        |                        | Free               |                                | 35% |
|                        | 40                   | For scribing or scoring semiconductor wafers                                                                              | No.                    |                    |                                |     |
|                        | 60                   | Other                                                                                                                     | No.                    |                    |                                |     |
| 8464.90.60             | 00                   | For wet-developing or -stripping semiconductor wafers; for wet-etching, -developing, or -stripping flat panel displays    | No.                    | Free               |                                | 35% |
| 8464.90.90             |                      | Other                                                                                                                     |                        | 2%                 | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 35% |
|                        | 10                   | Glass-working machines                                                                                                    | No.                    |                    |                                |     |
|                        | 90                   | Other                                                                                                                     | No.                    |                    |                                |     |

<sup>1/</sup> See subheading 9902.84.40.

# Harmonized Tariff Schedule of the United States (2004)

Annotated for Statistical Reporting Purposes

XVI  
84-62

| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                                                                                           | Unit<br>of<br>Quantity | Rates of Duty    |                                |     |
|------------------------|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|------------------|--------------------------------|-----|
|                        |                      |                                                                                                                                                                               |                        | 1                |                                | 2   |
|                        |                      |                                                                                                                                                                               |                        | General          | Special                        |     |
| 8465                   |                      | Machine tools (including machines for nailing, stapling, glueing or otherwise assembling) for working wood, cork, bone, hard rubber, hard plastics or similar hard materials: |                        |                  |                                |     |
| 8465.10.00             |                      | Machines which can carry out different types of machining operations without tool change between such operations . . . . .                                                    |                        | 2.4%             | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 35% |
|                        |                      | Woodworking machines:                                                                                                                                                         |                        |                  |                                |     |
|                        |                      | Used or rebuilt:                                                                                                                                                              |                        |                  |                                |     |
|                        | 05                   | Tenoners . . . . .                                                                                                                                                            | No.                    |                  |                                |     |
|                        | 15                   | Other . . . . .                                                                                                                                                               | No.                    |                  |                                |     |
|                        |                      | Other:                                                                                                                                                                        |                        |                  |                                |     |
|                        |                      | Tenoners:                                                                                                                                                                     |                        |                  |                                |     |
|                        | 25                   | Numerically controlled . . . . .                                                                                                                                              | No.                    |                  |                                |     |
|                        | 35                   | Other . . . . .                                                                                                                                                               | No.                    |                  |                                |     |
|                        | 45                   | Other . . . . .                                                                                                                                                               | No.                    |                  |                                |     |
|                        | 50                   | Other . . . . .                                                                                                                                                               | No.                    |                  |                                |     |
|                        |                      | Other:                                                                                                                                                                        |                        |                  |                                |     |
| 8465.91.00             |                      | Sawing machines . . . . .                                                                                                                                                     |                        | 3% <sup>1/</sup> | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 35% |
|                        |                      | Woodworking machines:                                                                                                                                                         |                        |                  |                                |     |
|                        |                      | Used or rebuilt:                                                                                                                                                              |                        |                  |                                |     |
|                        | 02                   | Rip saws . . . . .                                                                                                                                                            | No.                    |                  |                                |     |
|                        | 06                   | Panel saws . . . . .                                                                                                                                                          | No.                    |                  |                                |     |
|                        | 12                   | Band saws . . . . .                                                                                                                                                           | No.                    |                  |                                |     |
|                        | 16                   | Cross-cut and optimizing saws . . . . .                                                                                                                                       | No.                    |                  |                                |     |
|                        | 22                   | Other . . . . .                                                                                                                                                               | No.                    |                  |                                |     |
|                        |                      | Other:                                                                                                                                                                        |                        |                  |                                |     |
|                        | 27                   | Sawmill machines . . . . .                                                                                                                                                    | No.                    |                  |                                |     |
|                        |                      | Other:                                                                                                                                                                        |                        |                  |                                |     |
|                        | 32                   | Radial arm saws . . . . .                                                                                                                                                     | No.                    |                  |                                |     |
|                        | 36                   | Tilting arbor table saws . . . . .                                                                                                                                            | No.                    |                  |                                |     |
|                        | 41                   | Rip saws . . . . .                                                                                                                                                            | No.                    |                  |                                |     |
|                        | 47                   | Miter saws . . . . .                                                                                                                                                          | No.                    |                  |                                |     |
|                        | 49                   | Scroll saws . . . . .                                                                                                                                                         | No.                    |                  |                                |     |
|                        |                      | Panel saws:                                                                                                                                                                   |                        |                  |                                |     |
|                        | 53                   | Valued under \$3,000 each . . . . .                                                                                                                                           | No.                    |                  |                                |     |
|                        | 58                   | Other . . . . .                                                                                                                                                               | No.                    |                  |                                |     |
|                        |                      | Band saws:                                                                                                                                                                    |                        |                  |                                |     |
|                        | 64                   | Valued under \$1,000 each . . . . .                                                                                                                                           | No.                    |                  |                                |     |
|                        | 68                   | Other . . . . .                                                                                                                                                               | No.                    |                  |                                |     |
|                        | 74                   | Cross-cut and optimizing saws . . . . .                                                                                                                                       | No.                    |                  |                                |     |
|                        | 78                   | Other . . . . .                                                                                                                                                               | No.                    |                  |                                |     |
|                        | 90                   | Other . . . . .                                                                                                                                                               | No.                    |                  |                                |     |

<sup>1/</sup> See subheading 9902.84.91.

# Harmonized Tariff Schedule of the United States (2004)

Annotated for Statistical Reporting Purposes

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| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                                                                                                  | Unit<br>of<br>Quantity | Rates of Duty |                                |     |
|------------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------|--------------------------------|-----|
|                        |                      |                                                                                                                                                                                      |                        | 1             |                                | 2   |
|                        |                      |                                                                                                                                                                                      |                        | General       | Special                        |     |
| 8465<br>(con.)         |                      | Machine tools (including machines for nailing, stapling, glueing or otherwise assembling) for working wood, cork, bone, hard rubber, hard plastics or similar hard materials (con.): |                        |               |                                |     |
| 8465.92.00             |                      | Other (con.)<br>Planing, milling or molding (by cutting) machines . . . . .                                                                                                          |                        | 3%            | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 35% |
|                        |                      | For woodworking:                                                                                                                                                                     |                        |               |                                |     |
|                        |                      | Used or rebuilt:                                                                                                                                                                     |                        |               |                                |     |
|                        | 03                   | Moulders . . . . .                                                                                                                                                                   | No.                    |               |                                |     |
|                        | 06                   | Routers . . . . .                                                                                                                                                                    | No.                    |               |                                |     |
|                        | 16                   | Other . . . . .                                                                                                                                                                      | No.                    |               |                                |     |
|                        |                      | Other:                                                                                                                                                                               |                        |               |                                |     |
|                        |                      | Dovetailing machines:                                                                                                                                                                |                        |               |                                |     |
|                        | 26                   | Valued under \$3,000 each . . . . .                                                                                                                                                  | No.                    |               |                                |     |
|                        | 29                   | Other . . . . .                                                                                                                                                                      | No.                    |               |                                |     |
|                        | 31                   | Moulders . . . . .                                                                                                                                                                   | No.                    |               |                                |     |
|                        |                      | Planers:                                                                                                                                                                             |                        |               |                                |     |
|                        | 34                   | Valued under \$1,000 each . . . . .                                                                                                                                                  | No.                    |               |                                |     |
|                        | 37                   | Other . . . . .                                                                                                                                                                      | No.                    |               |                                |     |
|                        |                      | Jointers:                                                                                                                                                                            |                        |               |                                |     |
|                        | 42                   | Valued under \$1,000 each . . . . .                                                                                                                                                  | No.                    |               |                                |     |
|                        | 46                   | Other . . . . .                                                                                                                                                                      | No.                    |               |                                |     |
|                        |                      | Routers:                                                                                                                                                                             |                        |               |                                |     |
|                        | 51                   | Valued under \$3,000 each . . . . .                                                                                                                                                  | No.                    |               |                                |     |
|                        |                      | Other:                                                                                                                                                                               |                        |               |                                |     |
|                        | 55                   | Numerically controlled . . . . .                                                                                                                                                     | No.                    |               |                                |     |
|                        | 58                   | Other . . . . .                                                                                                                                                                      | No.                    |               |                                |     |
|                        |                      | Shapers and profilers:                                                                                                                                                               |                        |               |                                |     |
|                        | 62                   | Valued under \$1,000 each . . . . .                                                                                                                                                  | No.                    |               |                                |     |
|                        | 66                   | Other . . . . .                                                                                                                                                                      | No.                    |               |                                |     |
|                        | 72                   | Other . . . . .                                                                                                                                                                      | No.                    |               |                                |     |
|                        | 90                   | Other . . . . .                                                                                                                                                                      | No.                    |               |                                |     |
| 8465.93.00             |                      | Grinding, sanding or polishing machines . . . . .                                                                                                                                    |                        | 3%            | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 35% |
|                        |                      | For woodworking:                                                                                                                                                                     |                        |               |                                |     |
|                        |                      | Used or rebuilt:                                                                                                                                                                     |                        |               |                                |     |
|                        | 04                   | Belt sanders, for a belt width 60 cm or wider . . . . .                                                                                                                              | No.                    |               |                                |     |
|                        | 12                   | Other . . . . .                                                                                                                                                                      | No.                    |               |                                |     |
|                        |                      | Other:                                                                                                                                                                               |                        |               |                                |     |
|                        |                      | Edge belt sanders:                                                                                                                                                                   |                        |               |                                |     |
|                        | 30                   | Valued under \$1,000 each . . . . .                                                                                                                                                  | No.                    |               |                                |     |
|                        | 45                   | Valued \$1,000 or over but under \$3,000 each . . . . .                                                                                                                              | No.                    |               |                                |     |
|                        | 55                   | Other . . . . .                                                                                                                                                                      | No.                    |               |                                |     |
|                        | 65                   | Belt sanders, for a belt width 60 cm or wider . . . . .                                                                                                                              | No.                    |               |                                |     |
|                        | 75                   | Other . . . . .                                                                                                                                                                      | No.                    |               |                                |     |
|                        | 90                   | Other . . . . .                                                                                                                                                                      | No.                    |               |                                |     |

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| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                                                                                                  | Unit<br>of<br>Quantity | Rates of Duty |                                |     |
|------------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------|--------------------------------|-----|
|                        |                      |                                                                                                                                                                                      |                        | 1             |                                | 2   |
|                        |                      |                                                                                                                                                                                      |                        | General       | Special                        |     |
| 8465<br>(con.)         |                      | Machine tools (including machines for nailing, stapling, glueing or otherwise assembling) for working wood, cork, bone, hard rubber, hard plastics or similar hard materials (con.): |                        |               |                                |     |
| 8465.94.00             |                      | Other (con.)<br>Bending or assembling machines . . . . .                                                                                                                             |                        | 2.9%          | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 35% |
|                        | 05                   | For woodworking:<br>Used or rebuilt . . . . .                                                                                                                                        | No.                    |               |                                |     |
|                        | 15                   | Other:<br>Doweling machines . . . . .                                                                                                                                                | No.                    |               |                                |     |
|                        | 25                   | Edgebanding machines . . . . .                                                                                                                                                       | No.                    |               |                                |     |
|                        | 35                   | Laminating machines . . . . .                                                                                                                                                        | No.                    |               |                                |     |
|                        | 45                   | Presses:<br>Cold . . . . .                                                                                                                                                           | No.                    |               |                                |     |
|                        | 55                   | Other . . . . .                                                                                                                                                                      | No.                    |               |                                |     |
|                        | 65                   | Other . . . . .                                                                                                                                                                      | No.                    |               |                                |     |
|                        | 90                   | Other . . . . .                                                                                                                                                                      | No.                    |               |                                |     |
| 8465.95.00             |                      | Drilling or mortising machines . . . . .                                                                                                                                             |                        | 3%            | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 35% |
|                        | 05                   | For woodworking:<br>Used or rebuilt:<br>Numerically controlled boring<br>machines . . . . .                                                                                          | No.                    |               |                                |     |
|                        | 10                   | Other . . . . .                                                                                                                                                                      | No.                    |               |                                |     |
|                        | 20                   | Other:<br>Boring machines:<br>Numerically controlled . . . . .                                                                                                                       | No.                    |               |                                |     |
|                        | 35                   | Other:<br>Valued under \$3,000 each . . . . .                                                                                                                                        | No.                    |               |                                |     |
|                        | 45                   | Other . . . . .                                                                                                                                                                      | No.                    |               |                                |     |
|                        | 55                   | Other drilling machines:<br>Valued under \$1,000 each . . . . .                                                                                                                      | No.                    |               |                                |     |
|                        | 60                   | Other . . . . .                                                                                                                                                                      | No.                    |               |                                |     |
|                        | 65                   | Other . . . . .                                                                                                                                                                      | No.                    |               |                                |     |
|                        | 90                   | Other . . . . .                                                                                                                                                                      | No.                    |               |                                |     |
| 8465.96.00             |                      | Splitting, slicing or paring machines . . . . .                                                                                                                                      |                        | 2.4%          | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 35% |
|                        | 15                   | For woodworking:<br>Log splitters . . . . .                                                                                                                                          | No.                    |               |                                |     |
|                        | 25                   | Chippers . . . . .                                                                                                                                                                   | No.                    |               |                                |     |
|                        | 30                   | Hogs . . . . .                                                                                                                                                                       | No.                    |               |                                |     |
|                        | 40                   | Other . . . . .                                                                                                                                                                      | No.                    |               |                                |     |
|                        | 50                   | Other . . . . .                                                                                                                                                                      | No.                    |               |                                |     |

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| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                                                                                                  | Unit<br>of<br>Quantity | Rates of Duty |                                |     |
|------------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------|--------------------------------|-----|
|                        |                      |                                                                                                                                                                                      |                        | 1             |                                | 2   |
|                        |                      |                                                                                                                                                                                      |                        | General       | Special                        |     |
| 8465<br>(con.)         |                      | Machine tools (including machines for nailing, stapling, glueing or otherwise assembling) for working wood, cork, bone, hard rubber, hard plastics or similar hard materials (con.): |                        |               |                                |     |
| 8465.99                |                      | Other (con.)                                                                                                                                                                         |                        |               |                                |     |
| 8465.99.40             | 00                   | Other:                                                                                                                                                                               |                        |               |                                |     |
|                        |                      | Deflash machines for cleaning and removing contaminants from the metal leads of semiconductor packages prior to the electroplating process (deflash by chemical bath) .....          | No. ....               | Free          |                                | 35% |
| 8465.99.80             |                      | Other .....                                                                                                                                                                          |                        | 2.4%          | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 35% |
|                        | 05                   | Woodworking machines:                                                                                                                                                                |                        |               |                                |     |
|                        |                      | Debarkers .....                                                                                                                                                                      | No.                    |               |                                |     |
|                        |                      | Lathes:                                                                                                                                                                              |                        |               |                                |     |
|                        | 10                   | Veneer lathes .....                                                                                                                                                                  | No.                    |               |                                |     |
|                        |                      | Other:                                                                                                                                                                               |                        |               |                                |     |
|                        | 20                   | Valued under \$1,000 each .....                                                                                                                                                      | No.                    |               |                                |     |
|                        | 40                   | Valued \$1,000 or over but under \$3,000 each .....                                                                                                                                  | No.                    |               |                                |     |
|                        | 60                   | Other .....                                                                                                                                                                          | No.                    |               |                                |     |
|                        | 70                   | Other .....                                                                                                                                                                          | No.                    |               |                                |     |
|                        | 95                   | Other .....                                                                                                                                                                          | No.                    |               |                                |     |

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Annotated for Statistical Reporting Purposes

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| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                                                                                                                                                                                                        | Unit<br>of<br>Quantity | Rates of Duty |                                     |     |
|------------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------|-------------------------------------|-----|
|                        |                      |                                                                                                                                                                                                                                                                                            |                        | 1             |                                     | 2   |
|                        |                      |                                                                                                                                                                                                                                                                                            |                        | General       | Special                             |     |
| 8466                   |                      | Parts and accessories suitable for use solely or principally with the machines of headings 8456 to 8465, including work or tool holders, self-opening dieheads, dividing heads and other special attachments for machine tools; tool holders for any type of tool for working in the hand: |                        |               |                                     |     |
| 8466.10                |                      | Tool holders and self-opening dieheads:                                                                                                                                                                                                                                                    |                        |               |                                     |     |
| 8466.10.40             | 00                   | Tool holders for the machines described in additional U.S. note 3 to chapter 84                                                                                                                                                                                                            | No. ....               | Free          |                                     | 45% |
| 8466.10.80             |                      | Other                                                                                                                                                                                                                                                                                      |                        | 3.9%          | Free (A,CA,CL,E,IL,J,JO,MX,SG)      | 45% |
|                        | 10                   | Tool holders for forming-type or cutting-type dies                                                                                                                                                                                                                                         | X                      |               |                                     |     |
|                        | 30                   | Holders for replaceable cutting or drill inserts                                                                                                                                                                                                                                           | X                      |               |                                     |     |
|                        | 75                   | Other                                                                                                                                                                                                                                                                                      | X                      |               |                                     |     |
| 8466.20                |                      | Work holders:                                                                                                                                                                                                                                                                              |                        |               |                                     |     |
| 8466.20.10             |                      | For machine tools used in cutting gears                                                                                                                                                                                                                                                    |                        | 4.6%          | Free (A,CA,CL,E,IL,J,JO,MX,SG)      | 45% |
|                        | 10                   | Jigs and fixtures                                                                                                                                                                                                                                                                          | X                      |               |                                     |     |
|                        | 90                   | Other                                                                                                                                                                                                                                                                                      | X                      |               |                                     |     |
| 8466.20.40             | 00                   | For the machines described in additional U.S. note 3 to chapter 84                                                                                                                                                                                                                         | No. ....               | Free          |                                     | 35% |
| 8466.20.80             |                      | Other                                                                                                                                                                                                                                                                                      |                        | 3.7%          | Free (A,CA,CL,E,IL,J,JO,MX,SG)      | 35% |
|                        | 20                   | For metalworking machine tools:                                                                                                                                                                                                                                                            |                        |               |                                     |     |
|                        | 35                   | Jigs and fixtures                                                                                                                                                                                                                                                                          | X                      |               |                                     |     |
|                        |                      | Other                                                                                                                                                                                                                                                                                      | X                      |               |                                     |     |
|                        | 40                   | Other work holders:                                                                                                                                                                                                                                                                        |                        |               |                                     |     |
|                        | 65                   | Jigs and fixtures                                                                                                                                                                                                                                                                          | X                      |               |                                     |     |
|                        |                      | Other                                                                                                                                                                                                                                                                                      | X                      |               |                                     |     |
| 8466.30                |                      | Dividing heads and other special attachments for machine tools:                                                                                                                                                                                                                            |                        |               |                                     |     |
| 8466.30.10             | 00                   | Dividing heads                                                                                                                                                                                                                                                                             | X                      | 3.7%          | Free (A,CA,CL,E,IL,J,JO,MX,SG)      | 35% |
| 8466.30.45             | 00                   | Other special attachments: For the machines described in additional U.S. note 3 to chapter 84                                                                                                                                                                                              | X                      | Free          |                                     | 45% |
| 8466.30.60             |                      | Other: Machines                                                                                                                                                                                                                                                                            |                        | 2.9%          | Free (A,CA,CL,E,IL,J,JO,MX,SG)      | 35% |
|                        | 40                   | For woodworking machines                                                                                                                                                                                                                                                                   | X                      |               |                                     |     |
|                        | 85                   | Other                                                                                                                                                                                                                                                                                      | X                      |               |                                     |     |
| 8466.30.80             | 00                   | Other                                                                                                                                                                                                                                                                                      | X                      | 8%            | Free (A,CA,CL,E,IL,J,JO,MX) 6% (SG) | 45% |

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| Heading/<br>Subheading              | Stat.<br>Suf-<br>fix | Article Description                                                                                                                                                                                                                                                                                         | Unit<br>of<br>Quantity      | Rates of Duty |                                              |            |
|-------------------------------------|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|---------------|----------------------------------------------|------------|
|                                     |                      |                                                                                                                                                                                                                                                                                                             |                             | 1             |                                              | 2          |
|                                     |                      |                                                                                                                                                                                                                                                                                                             |                             | General       | Special                                      |            |
| 8466<br>(con.)                      |                      | Parts and accessories suitable for use solely or principally with the machines of headings 8456 to 8465, including work or tool holders, self-opening dieheads, dividing heads and other special attachments for machine tools; tool holders for any type of tool for working in the hand (con.):<br>Other: |                             |               |                                              |            |
| 8466.91<br>8466.91.10               | 00                   | For machines of heading 8464:<br>Cast-iron parts not advanced beyond cleaning, and machined only for the removal of fins, gates, sprues and risers or to permit location in finishing machinery . . . . .                                                                                                   | kg . . . . .                | Free          |                                              | 10%        |
| 8466.91.50<br>8466.92<br>8466.92.10 | 00<br>00             | Other . . . . .<br>For machines of heading 8465:<br>Cast-iron parts not advanced beyond cleaning, and machined only for the removal of fins, gates, sprues and risers or to permit location in finishing machinery . . . . .                                                                                | X . . . . .<br>kg . . . . . | Free<br>Free  |                                              | 35%<br>10% |
| 8466.92.50                          | 10<br>90             | Other . . . . .<br>Of woodworking machines . . . . .<br>Other . . . . .                                                                                                                                                                                                                                     | . . . . .<br>X<br>X         | 4.7%          | Free (A,CA,CL,E,<br>IL,J,JO,MX,SG)           | 35%        |
| 8466.93                             |                      | For machines of headings 8456 to 8461:<br>Bed, base, table, head, tail, saddle, cradle, cross slide, column, arm, saw arm, wheelhead, tailstock, headstock, ram, frame, work-arbor support, and C-frame castings, weldments or fabrications:                                                                |                             |               |                                              |            |
| 8466.93.15                          | 30                   | Cast-iron parts not advanced beyond cleaning, and machined only for the removal of fins, gates, sprues and risers or to permit location in finishing machinery . . . . .                                                                                                                                    | . . . . .                   | Free          |                                              | 10%        |
| 8466.93.30                          | 60<br>00             | For metalworking machine tools for cutting, grinding or finishing gears . . . . .<br>Other . . . . .<br>Other:<br>Of metalworking machine tools for cutting gears . . . . .                                                                                                                                 | kg<br>kg<br>X . . . . .     | Free<br>Free  | Free (A,CA,CL,E,<br>IL,J,JO,MX)<br>4.3% (SG) | 45%        |
| 8466.93.47                          | 00                   | Of machines of subheading 8456.10.60; of machines of subheading 8456.91; of machines of 8456.99.10; of machines of subheading 8456.99.70 . . . . .                                                                                                                                                          | No. . . . .                 | Free          |                                              | 35%        |
| 8466.93.53                          | 40<br>85             | Other . . . . .<br>Of metalworking machine tools for grinding or finishing gears . . . . .<br>Other . . . . .                                                                                                                                                                                               | . . . . .<br>X<br>X         | 4.7%          | Free (A,CA,CL,E,<br>IL,J,JO,MX,SG)           | 35%        |

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| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                                                                                                                                                                                                               | Unit<br>of<br>Quantity | Rates of Duty |                                          |     |
|------------------------|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------|------------------------------------------|-----|
|                        |                      |                                                                                                                                                                                                                                                                                                   |                        | 1             |                                          | 2   |
|                        |                      |                                                                                                                                                                                                                                                                                                   |                        | General       | Special                                  |     |
| 8466<br>(con.)         |                      | Parts and accessories suitable for use solely or principally with the machines of headings 8456 to 8465, including work or tool holders, self-opening dieheads, dividing heads and other special attachments for machine tools; tool holders for any type of tool for working in the hand (con.): |                        |               |                                          |     |
| 8466.93<br>(con.)      |                      | Other (con.):                                                                                                                                                                                                                                                                                     |                        |               |                                          |     |
|                        |                      | For machines of headings 8456 to 8461 (con.):                                                                                                                                                                                                                                                     |                        |               |                                          |     |
|                        |                      | Other:                                                                                                                                                                                                                                                                                            |                        |               |                                          |     |
| 8466.93.60             |                      | Cast-iron parts not advanced beyond cleaning, and machined only for the removal of fins, gates, sprues and risers or to permit location in finishing machinery . . . . .                                                                                                                          |                        | Free          |                                          | 10% |
|                        | 30                   | For metalworking machine tools for cutting, grinding or finishing gears . . . . .                                                                                                                                                                                                                 | kg                     |               |                                          |     |
|                        | 60                   | Other . . . . .                                                                                                                                                                                                                                                                                   | kg                     |               |                                          |     |
| 8466.93.75             | 00                   | Other:                                                                                                                                                                                                                                                                                            |                        |               |                                          |     |
|                        |                      | Of metalworking machine tools for cutting gears . . . . .                                                                                                                                                                                                                                         | X                      | 5.8%          | Free (A,CA,CL,E,IL,J,JO,MX)<br>4.3% (SG) | 45% |
| 8466.93.85             | 00                   | Of machines of subheading 8456.10.60; of machines of subheading 8456.91; of machines of 8456.99.10; of machines of subheading 8456.99.70 . . . . .                                                                                                                                                | No.                    | Free          |                                          | 35% |
| 8466.93.95             |                      | Other . . . . .                                                                                                                                                                                                                                                                                   |                        | 4.7%          | Free (A,CA,CL,E,IL,J,JO,MX,SG)           | 35% |
|                        | 40                   | Of metalworking machine tools for grinding or finishing gears . . . . .                                                                                                                                                                                                                           | X                      |               |                                          |     |
|                        | 85                   | Other . . . . .                                                                                                                                                                                                                                                                                   | X                      |               |                                          |     |



# Harmonized Tariff Schedule of the United States (2004)

Annotated for Statistical Reporting Purposes

XVI  
84-69

| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                                                                                                                                                                                                                                | Unit<br>of<br>Quantity | Rates of Duty |                                |     |
|------------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------|--------------------------------|-----|
|                        |                      |                                                                                                                                                                                                                                                                                                                    |                        | 1             |                                | 2   |
|                        |                      |                                                                                                                                                                                                                                                                                                                    |                        | General       | Special                        |     |
| 8466<br>(con.)         |                      | Parts and accessories suitable for use solely or principally with the machines of headings 8456 to 8465, including work or tool holders, self-opening dieheads, dividing heads and other special attachments for machine tools; tool holders for any type of tool for working in the hand (con.):<br>Other (con.): |                        |               |                                |     |
| 8466.94                |                      | For machines of heading 8462 or 8463:<br>Cast-iron parts not advanced beyond cleaning, and machined only for the removal of fins, gates, sprues and risers or to permit location in finishing machinery:                                                                                                           |                        |               |                                |     |
| 8466.94.20             | 00                   | Bed, base, table, column, cradle, frame, bolster, crown, slide, rod, tailstock and headstock castings, weldments or fabrications . . . . .                                                                                                                                                                         | kg . . . . .           | Free          |                                | 10% |
| 8466.94.40             | 00                   | Other . . . . .<br>Other:<br>Bed, base, table, column, cradle, frame, bolster, crown, slide, rod, tailstock and headstock castings, weldments or fabrications:                                                                                                                                                     | kg . . . . .           | Free          |                                | 10% |
| 8466.94.55             | 00                   | Of machines of subheading 8462.21.40 or 8462.29.40 . . . . .                                                                                                                                                                                                                                                       | No. . . . .            | Free          |                                | 35% |
| 8466.94.65             |                      | Other . . . . .                                                                                                                                                                                                                                                                                                    |                        | 4.7%          | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 35% |
|                        | 40                   | Parts of mechanical transfer presses . . . . .                                                                                                                                                                                                                                                                     | X                      |               |                                |     |
|                        | 85                   | Other . . . . .                                                                                                                                                                                                                                                                                                    | X                      |               |                                |     |
| 8466.94.75             | 00                   | Other:<br>Of machines of subheading 8462.21.40 or 8462.29.40 . . . . .                                                                                                                                                                                                                                             | No. . . . .            | Free          |                                | 35% |
| 8466.94.85             |                      | Other . . . . .                                                                                                                                                                                                                                                                                                    |                        | 4.7%          | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 35% |
|                        | 40                   | Parts of mechanical transfer presses . . . . .                                                                                                                                                                                                                                                                     | X                      |               |                                |     |
|                        | 85                   | Other . . . . .                                                                                                                                                                                                                                                                                                    | X                      |               |                                |     |

# Harmonized Tariff Schedule of the United States (2004)

Annotated for Statistical Reporting Purposes

XVI  
84-70

| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                                          | Unit<br>of<br>Quantity | Rates of Duty                  |         |   |
|------------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------------------------|---------|---|
|                        |                      |                                                                                                                              |                        | 1                              |         | 2 |
|                        |                      |                                                                                                                              |                        | General                        | Special |   |
| 8467                   |                      | Tools for working in the hand, pneumatic, hydraulic or with self-contained electric or nonelectric motor, and parts thereof: |                        |                                |         |   |
| 8467.11                |                      | Pneumatic:                                                                                                                   |                        |                                |         |   |
|                        |                      | Rotary type (including combined rotary-percussion):                                                                          |                        |                                |         |   |
| 8467.11.10             |                      | Suitable for metal working .....                                                                                             | 4.5%                   | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 30%     |   |
|                        | 40                   | Grinders, polishers and sanders .....                                                                                        | No.                    |                                |         |   |
|                        | 80                   | Other .....                                                                                                                  | No.                    |                                |         |   |
| 8467.11.50             |                      | Other .....                                                                                                                  | Free                   |                                | 27.5%   |   |
|                        | 10                   | Rock drills .....                                                                                                            | No.                    |                                |         |   |
|                        | 20                   | Drills, other than rock drills; screwdrivers and nut runners .....                                                           | No.                    |                                |         |   |
|                        | 40                   | Wrenches, other than nut runners .....                                                                                       | No.                    |                                |         |   |
|                        | 90                   | Other .....                                                                                                                  | No.                    |                                |         |   |
| 8467.19                |                      | Other:                                                                                                                       |                        |                                |         |   |
| 8467.19.10             | 00                   | Suitable for metal working .....                                                                                             | No. .... 4.5%          | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 30%     |   |
| 8467.19.50             | 30                   | Other .....                                                                                                                  | Free                   |                                | 27.5%   |   |
|                        |                      | Pneumatic, hand-held force feed lubricating equipment .....                                                                  | No.                    |                                |         |   |
|                        | 60                   | Designed for use in construction or mining ..                                                                                | No.                    |                                |         |   |
|                        | 90                   | Other .....                                                                                                                  | No.                    |                                |         |   |
| 8467.21.00             |                      | With self-contained electric motor:                                                                                          |                        |                                |         |   |
|                        |                      | Drills of all kinds .....                                                                                                    | 1.7%                   | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 35%     |   |
|                        | 10                   | Rotary:                                                                                                                      |                        |                                |         |   |
|                        |                      | Battery powered .....                                                                                                        | No.                    |                                |         |   |
|                        | 30                   | Other:                                                                                                                       |                        |                                |         |   |
|                        |                      | With a chuck capacity of less than 12.7 mm .....                                                                             | No.                    |                                |         |   |
|                        | 50                   | Other .....                                                                                                                  | No.                    |                                |         |   |
|                        | 70                   | Other, including hammer drills .....                                                                                         | No.                    |                                |         |   |
| 8467.22.00             |                      | Saws .....                                                                                                                   | Free                   |                                | 35%     |   |
|                        | 20                   | Circular .....                                                                                                               | No.                    |                                |         |   |
|                        | 40                   | Chain .....                                                                                                                  | No.                    |                                |         |   |
|                        | 70                   | Reciprocating and jig .....                                                                                                  | No.                    |                                |         |   |
|                        | 90                   | Other .....                                                                                                                  | No.                    |                                |         |   |
| 8467.29.00             |                      | Other .....                                                                                                                  | Free                   |                                | 35%     |   |
|                        | 10                   | Grinders, polishers and sanders:                                                                                             |                        |                                |         |   |
|                        |                      | Angle grinders, sanders and polishers ....                                                                                   | No.                    |                                |         |   |
|                        | 15                   | Orbital and straight-line sanders .....                                                                                      | No.                    |                                |         |   |
|                        |                      | Other:                                                                                                                       |                        |                                |         |   |
|                        | 25                   | Belt sanders .....                                                                                                           | No.                    |                                |         |   |
|                        | 35                   | Other .....                                                                                                                  | No.                    |                                |         |   |
|                        | 40                   | Screwdrivers, nut-runners and impact wrenches .....                                                                          | No.                    |                                |         |   |
|                        | 55                   | Routers .....                                                                                                                | No.                    |                                |         |   |
|                        | 65                   | Planers .....                                                                                                                | No.                    |                                |         |   |
|                        | 70                   | Grass and weed trimmers/edgers .....                                                                                         | No.                    |                                |         |   |
|                        | 80                   | Electropneumatic rotary and percussion hammers .....                                                                         | No.                    |                                |         |   |
|                        | 85                   | Electric scissors .....                                                                                                      | No.                    |                                |         |   |
|                        | 90                   | Other .....                                                                                                                  | No.                    |                                |         |   |

# Harmonized Tariff Schedule of the United States (2004)

Annotated for Statistical Reporting Purposes

XVI  
84-71

| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                                                                                                                    | Unit<br>of<br>Quantity | Rates of Duty |                                |       |
|------------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------|--------------------------------|-------|
|                        |                      |                                                                                                                                                                                                        |                        | 1             |                                | 2     |
|                        |                      |                                                                                                                                                                                                        |                        | General       | Special                        |       |
| 8467<br>(con.)         |                      | Tools for working in the hand, pneumatic, hydraulic or with self-contained electric or nonelectric motor, and parts thereof (con.):<br>Other tools:                                                    |                        |               |                                |       |
| 8467.81.00             | 00                   | Chain saws . . . . .                                                                                                                                                                                   | No. . . . .            | Free          |                                | 27.5% |
| 8467.89                |                      | Other:                                                                                                                                                                                                 |                        |               |                                |       |
| 8467.89.10             | 00                   | Suitable for metal working . . . . .                                                                                                                                                                   | No. . . . .            | Free          |                                | 30%   |
| 8467.89.50             |                      | Other . . . . .                                                                                                                                                                                        |                        | Free          |                                | 27.5% |
|                        | 30                   | Gasoline powered grass and weed trimmers and brushcutters . . . . .                                                                                                                                    | No.                    |               |                                |       |
|                        | 60                   | Other, designed for use in agriculture or horticulture . . . . .                                                                                                                                       | No.                    |               |                                |       |
|                        | 90                   | Other . . . . .                                                                                                                                                                                        | No.                    |               |                                |       |
|                        |                      | Parts:                                                                                                                                                                                                 |                        |               |                                |       |
| 8467.91.01             | 00                   | Of chain saws . . . . .                                                                                                                                                                                | X . . . . .            | Free          |                                | 27.5% |
| 8467.92.00             |                      | Of pneumatic tools . . . . .                                                                                                                                                                           |                        | Free          |                                | 27.5% |
|                        | 50                   | Of pneumatic, hand-held force feed lubricating equipment . . . . .                                                                                                                                     | X                      |               |                                |       |
|                        | 90                   | Other . . . . .                                                                                                                                                                                        | X                      |               |                                |       |
| 8467.99.01             |                      | Other . . . . .                                                                                                                                                                                        |                        | Free          |                                | 27.5% |
|                        | 30                   | Of gasoline powered grass and weed trimmers and brushcutters . . . . .                                                                                                                                 | X                      |               |                                |       |
|                        | 90                   | Other . . . . .                                                                                                                                                                                        | X                      |               |                                |       |
| 8468                   |                      | Machinery and apparatus for soldering, brazing or welding, whether or not capable of cutting, other than those of heading 8515; gas-operated surface tempering machines and appliances; parts thereof: |                        |               |                                |       |
| 8468.10.00             | 00                   | Hand-held blow torches . . . . .                                                                                                                                                                       | No. . . . .            | 2.9%          | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 45%   |
| 8468.20                |                      | Other gas-operated machinery and apparatus:                                                                                                                                                            |                        |               |                                |       |
| 8468.20.10             | 00                   | Hand-directed or -controlled . . . . .                                                                                                                                                                 | No. . . . .            | 3.9%          | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 45%   |
| 8468.20.50             | 00                   | Other . . . . .                                                                                                                                                                                        | No. . . . .            | Free          |                                | 27.5% |
| 8468.80                |                      | Other machinery and apparatus:                                                                                                                                                                         |                        |               |                                |       |
| 8468.80.10             | 00                   | Hand-directed or -controlled . . . . .                                                                                                                                                                 | No. . . . .            | 2.9%          | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 45%   |
| 8468.80.50             | 00                   | Other . . . . .                                                                                                                                                                                        | No. . . . .            | Free          |                                | 27.5% |
| 8468.90                |                      | Parts:                                                                                                                                                                                                 |                        |               |                                |       |
| 8468.90.10             | 00                   | Of hand-directed or -controlled machinery and apparatus . . . . .                                                                                                                                      | X . . . . .            | 2.9%          | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 45%   |
| 8468.90.50             | 00                   | Other . . . . .                                                                                                                                                                                        | X . . . . .            | Free          |                                | 27.5% |

# Harmonized Tariff Schedule of the United States (2004)

Annotated for Statistical Reporting Purposes

XVI  
84-72

| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                                                                                                                                                                                    | Unit<br>of<br>Quantity | Rates of Duty |         |      |
|------------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------|---------|------|
|                        |                      |                                                                                                                                                                                                                                                                        |                        | 1             |         | 2    |
|                        |                      |                                                                                                                                                                                                                                                                        |                        | General       | Special |      |
| 8469                   |                      | Typewriters other than printers of heading 8471; word processing machines:                                                                                                                                                                                             |                        |               |         |      |
|                        |                      | Automatic typewriters and word processing machines:                                                                                                                                                                                                                    |                        |               |         |      |
| 8469.11.00             | 00                   | Word processing machines . . . . .                                                                                                                                                                                                                                     | No. . . . .            | Free          |         | 35%  |
| 8469.12.00             | 00                   | Automatic typewriters . . . . .                                                                                                                                                                                                                                        | No. . . . .            | Free          |         | 35%  |
| 8469.20.00             |                      | Other typewriters, electric . . . . .                                                                                                                                                                                                                                  |                        | Free          |         | Free |
|                        | 20                   | Weighing not more than 12 kg, excluding case . . . . .                                                                                                                                                                                                                 | No.                    |               |         |      |
|                        | 40                   | Other . . . . .                                                                                                                                                                                                                                                        | No.                    |               |         |      |
| 8469.30.00             |                      | Other typewriters, nonelectric . . . . .                                                                                                                                                                                                                               |                        | Free          |         | Free |
|                        | 20                   | Weighing not more than 12 kg, excluding case . . . . .                                                                                                                                                                                                                 | No.                    |               |         |      |
|                        | 40                   | Other . . . . .                                                                                                                                                                                                                                                        | No.                    |               |         |      |
| 8470                   |                      | Calculating machines and pocket-size data recording, reproducing and displaying machines with calculating functions; accounting machines, postage-franking machines, ticket-issuing machines and similar machines, incorporating a calculating device; cash registers: |                        |               |         |      |
| 8470.10.00             |                      | Electronic calculators capable of operation without an external source of electric power and pocket-size data recording, reproducing and displaying machines with calculating functions . . . . .                                                                      |                        | Free          |         | 35%  |
|                        | 40                   | Display only . . . . .                                                                                                                                                                                                                                                 | No.                    |               |         |      |
|                        | 60                   | Other . . . . .                                                                                                                                                                                                                                                        | No.                    |               |         |      |
|                        |                      | Other electronic calculating machines:                                                                                                                                                                                                                                 |                        |               |         |      |
| 8470.21.00             | 00                   | Incorporating a printing device . . . . .                                                                                                                                                                                                                              | No. . . . .            | Free          |         | 35%  |
| 8470.29.00             | 00                   | Other . . . . .                                                                                                                                                                                                                                                        | No. . . . .            | Free          |         | 35%  |
| 8470.30.00             | 00                   | Other calculating machines . . . . .                                                                                                                                                                                                                                   | No. . . . .            | Free          |         | 35%  |
| 8470.40.00             | 00                   | Accounting machines . . . . .                                                                                                                                                                                                                                          | No. . . . .            | Free          |         | 35%  |
| 8470.50.00             |                      | Cash registers . . . . .                                                                                                                                                                                                                                               |                        | Free          |         | 35%  |
|                        | 20                   | Point-of-sale terminals . . . . .                                                                                                                                                                                                                                      | No.                    |               |         |      |
|                        | 60                   | Other . . . . .                                                                                                                                                                                                                                                        | No.                    |               |         |      |
| 8470.90.00             |                      | Other . . . . .                                                                                                                                                                                                                                                        |                        | Free          |         | 35%  |
|                        | 10                   | Postage-franking machines . . . . .                                                                                                                                                                                                                                    | No.                    |               |         |      |
|                        | 90                   | Other . . . . .                                                                                                                                                                                                                                                        | No.                    |               |         |      |

# Harmonized Tariff Schedule of the United States (2004)

Annotated for Statistical Reporting Purposes

XVI  
84-73

| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                                                                                                                                                  | Unit<br>of<br>Quantity | Rates of Duty |         |     |
|------------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------|---------|-----|
|                        |                      |                                                                                                                                                                                                                                      |                        | 1             |         | 2   |
|                        |                      |                                                                                                                                                                                                                                      |                        | General       | Special |     |
| 8471                   |                      | Automatic data processing machines and units thereof;<br>magnetic or optical readers, machines for transcribing<br>data onto data media in coded form and machines for<br>processing such data, not elsewhere specified or included: |                        |               |         |     |
| 8471.10.00             | 00                   | Analog or hybrid automatic data processing machines . . . . .                                                                                                                                                                        | No. . . . .            | Free          |         | 40% |
| 8471.30.00             | 00                   | Portable digital automatic data processing machines,<br>weighing not more than 10 kg, consisting of at least a<br>central processing unit, a keyboard and a display . . . . .                                                        | No. . . . .            | Free          |         | 35% |
| 8471.41.00             |                      | Other digital automatic data processing machines:<br>Comprising in the same housing at least a central<br>processing unit and an input and output unit,<br>whether or not combined . . . . .                                         |                        | Free          |         | 35% |
|                        | 35                   | With cathode-ray tube (CRT):                                                                                                                                                                                                         |                        |               |         |     |
|                        | 65                   | Color . . . . .                                                                                                                                                                                                                      | No.                    |               |         |     |
|                        | 95                   | Other . . . . .                                                                                                                                                                                                                      | No.                    |               |         |     |
| 8471.49                |                      | Other, entered in the form of systems:                                                                                                                                                                                               |                        |               |         |     |
| 8471.49.10             |                      | Digital processing units entered with the rest<br>of a system, whether or not containing in the<br>same housing one or two of the following<br>types of unit: storage units, input units,<br>output units . . . . .                  |                        | Free          |         | 35% |
|                        | 35                   | With cathode-ray tube (CRT):                                                                                                                                                                                                         |                        |               |         |     |
|                        | 65                   | Color . . . . .                                                                                                                                                                                                                      | No.                    |               |         |     |
|                        | 95                   | Other . . . . .                                                                                                                                                                                                                      | No.                    |               |         |     |
|                        |                      | Other . . . . .                                                                                                                                                                                                                      | No.                    |               |         |     |

# Harmonized Tariff Schedule of the United States (2004)

Annotated for Statistical Reporting Purposes

XVI  
84-74

| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                                                                                                                                                            | Unit<br>of<br>Quantity | Rates of Duty |         |     |
|------------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------|---------|-----|
|                        |                      |                                                                                                                                                                                                                                                |                        | 1             |         | 2   |
|                        |                      |                                                                                                                                                                                                                                                |                        | General       | Special |     |
| 8471<br>(con.)         |                      | Automatic data processing machines and units thereof;<br>magnetic or optical readers, machines for transcribing<br>data onto data media in coded form and machines for<br>processing such data, not elsewhere specified or<br>included (con.): |                        |               |         |     |
| 8471.49<br>(con.)      |                      | Other digital automatic data processing machines<br>(con.):                                                                                                                                                                                    |                        |               |         |     |
|                        |                      | Other, entered in the form of systems (con.):                                                                                                                                                                                                  |                        |               |         |     |
|                        |                      | Input or output units, entered with the rest of<br>a system, whether or not containing storage<br>units in the same housing:                                                                                                                   |                        |               |         |     |
| 8471.49.15             | 00                   | Combined input/output units . . . . .                                                                                                                                                                                                          | No. . . . .            | Free          |         | 35% |
|                        |                      | Other:                                                                                                                                                                                                                                         |                        |               |         |     |
| 8471.49.21             | 00                   | Keyboards . . . . .                                                                                                                                                                                                                            | No. . . . .            | Free          |         | 35% |
|                        |                      | Display units:                                                                                                                                                                                                                                 |                        |               |         |     |
| 8471.49.24             | 00                   | Without cathode-ray tube (CRT),<br>having a visual display diagonal<br>not exceeding 30.5 cm . . . . .                                                                                                                                         | No. . . . .            | Free          |         | 35% |
|                        |                      | Other:                                                                                                                                                                                                                                         |                        |               |         |     |
| 8471.49.26             | 00                   | With color cathode-ray tube<br>(CRT) . . . . .                                                                                                                                                                                                 | No. . . . .            | Free          |         | 35% |
| 8471.49.29             | 00                   | Other . . . . .                                                                                                                                                                                                                                | No. . . . .            | Free          |         | 35% |
|                        |                      | Printer units:                                                                                                                                                                                                                                 |                        |               |         |     |
|                        |                      | Laser:                                                                                                                                                                                                                                         |                        |               |         |     |
| 8471.49.31             | 00                   | Capable of producing more<br>than 20 pages per minute . . . . .                                                                                                                                                                                | No. . . . .            | Free          |         | 35% |
| 8471.49.32             | 00                   | Other . . . . .                                                                                                                                                                                                                                | No. . . . .            | Free          |         | 35% |
| 8471.49.33             | 00                   | Light bar electronic type . . . . .                                                                                                                                                                                                            | No. . . . .            | Free          |         | 35% |
| 8471.49.34             | 00                   | Ink jet . . . . .                                                                                                                                                                                                                              | No. . . . .            | Free          |         | 35% |
| 8471.49.35             | 00                   | Thermal transfer . . . . .                                                                                                                                                                                                                     | No. . . . .            | Free          |         | 35% |
| 8471.49.36             | 00                   | Ionographic . . . . .                                                                                                                                                                                                                          | No. . . . .            | Free          |         | 35% |
| 8471.49.37             | 00                   | Other . . . . .                                                                                                                                                                                                                                | No. . . . .            | Free          |         | 35% |
|                        | 30                   | Daisy wheel . . . . .                                                                                                                                                                                                                          | No.                    |               |         |     |
|                        | 60                   | Dot matrix . . . . .                                                                                                                                                                                                                           | No.                    |               |         |     |
|                        | 90                   | Other . . . . .                                                                                                                                                                                                                                | No.                    |               |         |     |
|                        |                      | Other:                                                                                                                                                                                                                                         |                        |               |         |     |
| 8471.49.42             | 00                   | Optical scanners and magnetic ink<br>recognition devices . . . . .                                                                                                                                                                             | No. . . . .            | Free          |         | 35% |
| 8471.49.48             | 50                   | Other . . . . .                                                                                                                                                                                                                                |                        | Free          |         | 35% |
|                        |                      | Card key and magnetic media<br>entry devices . . . . .                                                                                                                                                                                         | No.                    |               |         |     |
|                        |                      | Other:                                                                                                                                                                                                                                         |                        |               |         |     |
|                        | 75                   | Output devices . . . . .                                                                                                                                                                                                                       | No.                    |               |         |     |
|                        | 95                   | Other . . . . .                                                                                                                                                                                                                                | No.                    |               |         |     |

# Harmonized Tariff Schedule of the United States (2004)

Annotated for Statistical Reporting Purposes

XVI  
84-75

| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                                                                                                                                                            | Unit<br>of<br>Quantity | Rates of Duty |         |     |
|------------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------|---------|-----|
|                        |                      |                                                                                                                                                                                                                                                |                        | 1             |         | 2   |
|                        |                      |                                                                                                                                                                                                                                                |                        | General       | Special |     |
| 8471<br>(con.)         |                      | Automatic data processing machines and units thereof;<br>magnetic or optical readers, machines for transcribing<br>data onto data media in coded form and machines for<br>processing such data, not elsewhere specified or included<br>(con.): |                        |               |         |     |
|                        |                      | Other digital automatic data processing machines<br>(con.):                                                                                                                                                                                    |                        |               |         |     |
| 8471.49<br>(con.)      |                      | Other, entered in the form of systems (con.):                                                                                                                                                                                                  |                        |               |         |     |
| 8471.49.50             |                      | Storage units, entered with the rest of a<br>system .....                                                                                                                                                                                      |                        | Free          |         | 35% |
|                        | 10                   | Magnetic disk drive units:                                                                                                                                                                                                                     |                        |               |         |     |
|                        |                      | For a disk of a diameter exceeding<br>21 cm .....                                                                                                                                                                                              | No.                    |               |         |     |
|                        | 20                   | Other:                                                                                                                                                                                                                                         |                        |               |         |     |
|                        |                      | Flexible (floppy) magnetic disk<br>drive units .....                                                                                                                                                                                           | No.                    |               |         |     |
|                        | 40                   | Hard magnetic disk drive units .....                                                                                                                                                                                                           | No.                    |               |         |     |
|                        | 60                   | Other .....                                                                                                                                                                                                                                    | No.                    |               |         |     |
|                        | 80                   | Other .....                                                                                                                                                                                                                                    | No.                    |               |         |     |
|                        |                      | Other:                                                                                                                                                                                                                                         |                        |               |         |     |
| 8471.49.60             | 00                   | Control or adapter units .....                                                                                                                                                                                                                 | No. ....               | Free          |         | 35% |
| 8471.49.70             | 00                   | Power supplies .....                                                                                                                                                                                                                           | No. ....               | Free          |         | 35% |
|                        |                      | Other:                                                                                                                                                                                                                                         |                        |               |         |     |
| 8471.49.85             | 00                   | Units suitable for physical incorporation<br>into automatic data processing<br>machines or units thereof .....                                                                                                                                 | No. ....               | Free          |         | 35% |
| 8471.49.95             | 00                   | Other .....                                                                                                                                                                                                                                    | No. ....               | Free          |         | 35% |
| 8471.50.00             |                      | Digital processing units other than those of<br>subheading 8471.41 or 8471.49, whether or not<br>containing in the same housing one or two of the<br>following types of unit: storage units, input units,<br>output units .....                |                        | Free          |         | 35% |
|                        | 35                   | With cathode-ray tube (CRT):                                                                                                                                                                                                                   |                        |               |         |     |
|                        | 65                   | Color .....                                                                                                                                                                                                                                    | No.                    |               |         |     |
|                        | 85                   | Other .....                                                                                                                                                                                                                                    | No.                    |               |         |     |
| 8471.60                |                      | Input or output units, whether or not containing storage<br>units in the same housing:                                                                                                                                                         |                        |               |         |     |
| 8471.60.10             |                      | Combined input/output units .....                                                                                                                                                                                                              |                        | Free          |         | 35% |
|                        |                      | With cathode-ray tube (CRT):                                                                                                                                                                                                                   |                        |               |         |     |
|                        | 35                   | Color .....                                                                                                                                                                                                                                    | No.                    |               |         |     |
|                        | 65                   | Other .....                                                                                                                                                                                                                                    | No.                    |               |         |     |
|                        | 95                   | Other .....                                                                                                                                                                                                                                    | No.                    |               |         |     |

# Harmonized Tariff Schedule of the United States (2004)

Annotated for Statistical Reporting Purposes

XVI  
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| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                                                                                                                                                            | Unit<br>of<br>Quantity | Rates of Duty |         |     |
|------------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------|---------|-----|
|                        |                      |                                                                                                                                                                                                                                                |                        | 1             |         | 2   |
|                        |                      |                                                                                                                                                                                                                                                |                        | General       | Special |     |
| 8471<br>(con.)         |                      | Automatic data processing machines and units thereof;<br>magnetic or optical readers, machines for transcribing<br>data onto data media in coded form and machines for<br>processing such data, not elsewhere specified or included<br>(con.): |                        |               |         |     |
| 8471.60<br>(con.)      |                      | Input or output units, whether or not containing storage<br>units in the same housing (con.):                                                                                                                                                  |                        |               |         |     |
|                        |                      | Other:                                                                                                                                                                                                                                         |                        |               |         |     |
| 8471.60.20             | 00                   | Keyboards .....                                                                                                                                                                                                                                | No. ....               | Free          |         | 35% |
|                        |                      | Display units:                                                                                                                                                                                                                                 |                        |               |         |     |
| 8471.60.30             | 00                   | Without cathode-ray tube (CRT), having<br>a visual display diagonal not exceeding<br>30.5 cm .....                                                                                                                                             | No. ....               | Free          |         | 35% |
|                        |                      | Other:                                                                                                                                                                                                                                         |                        |               |         |     |
| 8471.60.35             | 00                   | With color cathode-ray tube (CRT) .....                                                                                                                                                                                                        | No. ....               | Free          |         | 35% |
| 8471.60.45             |                      | Other .....                                                                                                                                                                                                                                    |                        | Free          |         | 35% |
|                        | 40                   | With cathode-ray tube (CRT) .....                                                                                                                                                                                                              | No.                    |               |         |     |
|                        | 80                   | Other .....                                                                                                                                                                                                                                    | No.                    |               |         |     |
|                        |                      | Printer units:                                                                                                                                                                                                                                 |                        |               |         |     |
|                        |                      | Assembled units incorporating at least<br>the media transport, control and print<br>mechanisms:                                                                                                                                                |                        |               |         |     |
|                        |                      | Laser:                                                                                                                                                                                                                                         |                        |               |         |     |
| 8471.60.51             | 00                   | Capable of producing more than<br>20 pages per minute .....                                                                                                                                                                                    | No. ....               | Free          |         | 35% |
| 8471.60.52             | 00                   | Other .....                                                                                                                                                                                                                                    | No. ....               | Free          |         | 35% |
| 8471.60.53             | 00                   | Light bar electronic type .....                                                                                                                                                                                                                | No. ....               | Free          |         | 35% |
| 8471.60.54             | 00                   | Ink jet .....                                                                                                                                                                                                                                  | No. ....               | Free          |         | 35% |
| 8471.60.55             | 00                   | Thermal transfer .....                                                                                                                                                                                                                         | No. ....               | Free          |         | 35% |
| 8471.60.56             | 00                   | Ionographic .....                                                                                                                                                                                                                              | No. ....               | Free          |         | 35% |
| 8471.60.57             |                      | Other .....                                                                                                                                                                                                                                    |                        | Free          |         | 35% |
|                        | 30                   | Daisy wheel .....                                                                                                                                                                                                                              | No.                    |               |         |     |
|                        | 60                   | Dot matrix .....                                                                                                                                                                                                                               | No.                    |               |         |     |
|                        | 90                   | Other .....                                                                                                                                                                                                                                    | No.                    |               |         |     |
|                        |                      | Other:                                                                                                                                                                                                                                         |                        |               |         |     |
|                        |                      | Laser:                                                                                                                                                                                                                                         |                        |               |         |     |
| 8471.60.61             | 00                   | Capable of producing more than<br>20 pages per minute .....                                                                                                                                                                                    | No. ....               | Free          |         | 35% |
| 8471.60.62             | 00                   | Other .....                                                                                                                                                                                                                                    | No. ....               | Free          |         | 35% |
| 8471.60.63             | 00                   | Light bar electronic type .....                                                                                                                                                                                                                | No. ....               | Free          |         | 35% |
| 8471.60.64             | 00                   | Ink jet .....                                                                                                                                                                                                                                  | No. ....               | Free          |         | 35% |
| 8471.60.65             | 00                   | Thermal transfer .....                                                                                                                                                                                                                         | No. ....               | Free          |         | 35% |
| 8471.60.66             | 00                   | Ionographic .....                                                                                                                                                                                                                              | No. ....               | Free          |         | 35% |
| 8471.60.67             |                      | Other .....                                                                                                                                                                                                                                    |                        | Free          |         | 35% |
|                        | 30                   | Daisy wheel .....                                                                                                                                                                                                                              | No.                    |               |         |     |
|                        | 60                   | Dot matrix .....                                                                                                                                                                                                                               | No.                    |               |         |     |
|                        | 90                   | Other .....                                                                                                                                                                                                                                    | No.                    |               |         |     |
| 8471.60.70             |                      | Units suitable for physical incorporation into<br>automatic data processing machines or<br>units thereof .....                                                                                                                                 |                        | Free          |         | 35% |
|                        | 40                   | Output devices .....                                                                                                                                                                                                                           | No.                    |               |         |     |
|                        | 80                   | Other .....                                                                                                                                                                                                                                    | No.                    |               |         |     |
|                        |                      | Other:                                                                                                                                                                                                                                         |                        |               |         |     |
| 8471.60.80             | 00                   | Optical scanners and magnetic ink<br>recognition devices .....                                                                                                                                                                                 | No. ....               | Free          |         | 35% |
| 8471.60.90             |                      | Other .....                                                                                                                                                                                                                                    |                        | Free          |         | 35% |
|                        | 30                   | Card key and magnetic media<br>entry devices .....                                                                                                                                                                                             | No.                    |               |         |     |
|                        |                      | Other:                                                                                                                                                                                                                                         |                        |               |         |     |
|                        | 70                   | Output devices .....                                                                                                                                                                                                                           | No.                    |               |         |     |
|                        | 90                   | Other .....                                                                                                                                                                                                                                    | No.                    |               |         |     |



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| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                                                                                                                                                            | Unit<br>of<br>Quantity | Rates of Duty |         |     |
|------------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------|---------|-----|
|                        |                      |                                                                                                                                                                                                                                                |                        | 1             |         | 2   |
|                        |                      |                                                                                                                                                                                                                                                |                        | General       | Special |     |
| 8471<br>(con.)         |                      | Automatic data processing machines and units thereof;<br>magnetic or optical readers, machines for transcribing<br>data onto data media in coded form and machines for<br>processing such data, not elsewhere specified or included<br>(con.): |                        |               |         |     |
| 8471.70                |                      | Storage units:                                                                                                                                                                                                                                 |                        |               |         |     |
|                        |                      | Magnetic disk drive units:                                                                                                                                                                                                                     |                        |               |         |     |
|                        |                      | For a disk of a diameter exceeding 21 cm:                                                                                                                                                                                                      |                        |               |         |     |
| 8471.70.10             | 00                   | Without read-write unit assembled therein;<br>read-write units entered separately . . . . .                                                                                                                                                    | No. . . . .            | Free          |         | 35% |
| 8471.70.20             | 00                   | Units for physical incorporation into<br>automatic data processing machines or<br>units thereof . . . . .                                                                                                                                      | No. . . . .            | Free          |         | 35% |
| 8471.70.30             | 00                   | Other . . . . .                                                                                                                                                                                                                                | No. . . . .            | Free          |         | 35% |
| 8471.70.40             |                      | Other:                                                                                                                                                                                                                                         |                        |               |         |     |
|                        |                      | Not assembled in cabinets, and without<br>attached external power supply . . . . .                                                                                                                                                             |                        | Free          |         | 35% |
|                        | 35                   | Flexible (floppy) magnetic disk drive<br>units . . . . .                                                                                                                                                                                       | No.                    |               |         |     |
|                        | 65                   | Hard magnetic disk drive units . . . . .                                                                                                                                                                                                       | No.                    |               |         |     |
|                        | 95                   | Other . . . . .                                                                                                                                                                                                                                | No.                    |               |         |     |
| 8471.70.50             |                      | Other . . . . .                                                                                                                                                                                                                                |                        | Free          |         | 35% |
|                        | 35                   | Flexible (floppy) magnetic disk drive<br>units . . . . .                                                                                                                                                                                       | No.                    |               |         |     |
|                        | 65                   | Hard magnetic disk drive units . . . . .                                                                                                                                                                                                       | No.                    |               |         |     |
|                        | 95                   | Other . . . . .                                                                                                                                                                                                                                | No.                    |               |         |     |
| 8471.70.60             | 00                   | Other storage units:<br>Not assembled in cabinets for placing on a<br>table, desk, wall, floor or similar place . . . . .                                                                                                                      | No. . . . .            | Free          |         | 35% |
| 8471.70.90             | 00                   | Other . . . . .                                                                                                                                                                                                                                | No. . . . .            | Free          |         | 35% |
| 8471.80                |                      | Other units of automatic data processing machines:                                                                                                                                                                                             |                        |               |         |     |
| 8471.80.10             | 00                   | Control or adapter units . . . . .                                                                                                                                                                                                             | No. . . . .            | Free          |         | 35% |
|                        |                      | Other:                                                                                                                                                                                                                                         |                        |               |         |     |
| 8471.80.40             | 00                   | Units suitable for physical incorporation into<br>automatic data processing machines . . . . .                                                                                                                                                 | No. . . . .            | Free          |         | 35% |
| 8471.80.90             | 00                   | Other . . . . .                                                                                                                                                                                                                                | No. . . . .            | Free          |         | 35% |
| 8471.90.00             | 00                   | Other . . . . .                                                                                                                                                                                                                                | No. . . . .            | Free          |         | 35% |

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| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                                                                                                                                                                           | Unit<br>of<br>Quantity | Rates of Duty |                                |     |
|------------------------|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------|--------------------------------|-----|
|                        |                      |                                                                                                                                                                                                                                                               |                        | 1             |                                | 2   |
|                        |                      |                                                                                                                                                                                                                                                               |                        | General       | Special                        |     |
| 8472                   |                      | Other office machines (for example, hectograph or stencil duplicating machines, addressing machines, automatic banknote dispensers, coin-sorting machines, coin-counting or wrapping machines, pencil-sharpening machines, perforating or stapling machines): |                        |               |                                |     |
| 8472.10.00             | 00                   | Duplicating machines . . . . .                                                                                                                                                                                                                                | No. . . . .            | 1.6%          | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 25% |
| 8472.20.00             | 00                   | Addressing machines and address plate embossing machines . . . . .                                                                                                                                                                                            | No. . . . .            | 2.1%          | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 25% |
| 8472.30.00             | 00                   | Machines for sorting or folding mail or for inserting mail in envelopes or bands, machines for opening, closing or sealing mail and machines for affixing or canceling postage stamps . . . . .                                                               | No. . . . .            | 1.8%          | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 35% |
| 8472.90                |                      | Other:                                                                                                                                                                                                                                                        |                        |               |                                |     |
| 8472.90.10             | 00                   | Automatic teller machines . . . . .                                                                                                                                                                                                                           | No. . . . .            | Free          |                                | 35% |
| 8472.90.40             | 00                   | Pencil sharpeners . . . . .                                                                                                                                                                                                                                   | No. . . . .            | 2.6%          | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 40% |
| 8472.90.60             | 00                   | Numbering, dating and check-writing machines . . . . .                                                                                                                                                                                                        | No. . . . .            | Free          |                                | 25% |
| 8472.90.70             | 00                   | Accessory and auxiliary machines which are intended for attachment to an electrostatic photocopier and which do not operate independently of such photocopier . . . . .                                                                                       | No. . . . .            | Free          |                                | 35% |
| 8472.90.80             | 00                   | Printing machines other than those of heading 8443 or 8471 . . . . .                                                                                                                                                                                          | No. . . . .            | Free          |                                | 25% |
| 8472.90.90             |                      | Other . . . . .                                                                                                                                                                                                                                               |                        | 1.8%          | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 35% |
|                        | 40                   | Desktop note counters and note scanners . . . . .                                                                                                                                                                                                             | No.                    |               |                                |     |
|                        | 60                   | Other currency and coin handling machines . . . . .                                                                                                                                                                                                           | No.                    |               |                                |     |
|                        | 80                   | Other . . . . .                                                                                                                                                                                                                                               | No.                    |               |                                |     |

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Annotated for Statistical Reporting Purposes

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| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                                                                   | Unit<br>of<br>Quantity | Rates of Duty |                                |     |
|------------------------|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------|--------------------------------|-----|
|                        |                      |                                                                                                                                                       |                        | 1             |                                | 2   |
|                        |                      |                                                                                                                                                       |                        | General       | Special                        |     |
| 8473                   |                      | Parts and accessories (other than covers, carrying cases and the like) suitable for use solely or principally with machines of headings 8469 to 8472: |                        |               |                                |     |
| 8473.10                |                      | Parts and accessories of the machines of heading 8469:                                                                                                |                        |               |                                |     |
|                        |                      | Parts:                                                                                                                                                |                        |               |                                |     |
|                        |                      | Of word processing machines:                                                                                                                          |                        |               |                                |     |
| 8473.10.20             | 00                   | Printed circuit assemblies . . . . .                                                                                                                  | X . . . . .            | Free          |                                | 45% |
| 8473.10.40             | 00                   | Other . . . . .                                                                                                                                       | X . . . . .            | 2%            | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 45% |
| 8473.10.60             | 00                   | Other . . . . .                                                                                                                                       | X . . . . .            | 2%            | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 45% |
| 8473.10.90             | 00                   | Other . . . . .                                                                                                                                       | X . . . . .            | 2%            | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 45% |
|                        |                      | Parts and accessories of the machines of heading 8470:                                                                                                |                        |               |                                |     |
| 8473.21.00             | 00                   | Of the electronic calculating machines of subheading 8470.10, 8470.21 or 8470.29 . . . . .                                                            | X . . . . .            | Free          |                                | 35% |
| 8473.29.00             | 00                   | Other . . . . .                                                                                                                                       | X . . . . .            | Free          |                                | 35% |
| 8473.30                |                      | Parts and accessories of the machines of heading 8471:                                                                                                |                        |               |                                |     |
|                        |                      | Not incorporating a cathode ray tube:                                                                                                                 |                        |               |                                |     |
| 8473.30.10             | 40                   | Printed circuit assemblies . . . . .                                                                                                                  |                        | Free          |                                | 35% |
|                        |                      | Memory modules suitable for use solely or principally with machines of heading 8471 . . . . .                                                         | No.                    |               |                                |     |
|                        | 80                   | Other . . . . .                                                                                                                                       | X                      |               |                                |     |
| 8473.30.20             | 00                   | Parts and accessories, including face plates and lock latches, of printed circuit assemblies . . . . .                                                | X . . . . .            | Free          |                                | 35% |
| 8473.30.30             | 00                   | Other parts for printers, specified in additional U.S. note 2 to this chapter . . . . .                                                               | X . . . . .            | Free          |                                | 35% |
| 8473.30.50             | 00                   | Other . . . . .                                                                                                                                       | X . . . . .            | Free          |                                | 35% |
| 8473.30.60             | 00                   | Other:<br>Other parts for printers, specified in additional U.S. note 2 to this chapter . . . . .                                                     | X . . . . .            | Free          |                                | 35% |
| 8473.30.90             | 00                   | Other . . . . .                                                                                                                                       | X . . . . .            | Free          |                                | 35% |
| 8473.40                |                      | Parts and accessories of the machines of heading 8472:                                                                                                |                        |               |                                |     |
| 8473.40.10             | 00                   | Printed circuit assemblies for automatic teller machines of subheading 8472.90.10 . . . . .                                                           | X . . . . .            | Free          |                                | 35% |
| 8473.40.60             | 00                   | Parts and accessories of the goods of subheading 8472.90.70 . . . . .                                                                                 | X . . . . .            | Free          |                                | 35% |
| 8473.40.80             | 00                   | Parts and accessories of the goods of subheading 8472.90.80 . . . . .                                                                                 | X . . . . .            | Free          |                                | 25% |
| 8473.40.85             | 00                   | Other . . . . .                                                                                                                                       | X . . . . .            | 1.9%          | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 35% |
| 8473.50                |                      | Parts and accessories equally suitable for use with machines of two or more of the headings 8469 to 8472:                                             |                        |               |                                |     |
| 8473.50.30             | 00                   | Printed circuit assemblies . . . . .                                                                                                                  | X . . . . .            | Free          |                                | 35% |
| 8473.50.60             | 00                   | Parts and accessories, including face plates and lock latches, of printed circuit assemblies . . . . .                                                | X . . . . .            | Free          |                                | 35% |
| 8473.50.90             | 00                   | Other . . . . .                                                                                                                                       | X . . . . .            | Free          |                                | 35% |

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Annotated for Statistical Reporting Purposes

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| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                                                                                                                                                                                                                                                                                                                                                 | Unit<br>of<br>Quantity | Rates of Duty |         |     |
|------------------------|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------|---------|-----|
|                        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                     |                        | 1             |         | 2   |
|                        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                     |                        | General       | Special |     |
| 8474                   |                      | Machinery for sorting, screening, separating, washing, crushing, grinding, mixing or kneading earth, stone, ores or other mineral substances, in solid (including powder or paste) form; machinery for agglomerating, shaping or molding solid mineral fuels, ceramic paste, unhardened cements, plastering materials or other mineral products in powder or paste form; machines for forming foundry molds of sand; parts thereof: |                        |               |         |     |
| 8474.10.00             | 10                   | Sorting, screening, separating or washing machines . . . . .                                                                                                                                                                                                                                                                                                                                                                        |                        | Free          |         | 35% |
|                        | 90                   | Portable . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                  | No.                    |               |         |     |
|                        |                      | Stationary . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                | No.                    |               |         |     |
| 8474.20.00             | 10                   | Crushing or grinding machines . . . . .                                                                                                                                                                                                                                                                                                                                                                                             |                        | Free          |         | 35% |
|                        | 10                   | Portable . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                  | No.                    |               |         |     |
|                        |                      | Stationary:                                                                                                                                                                                                                                                                                                                                                                                                                         |                        |               |         |     |
|                        | 50                   | Crushing . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                  | No.                    |               |         |     |
|                        | 70                   | Other . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                     | No.                    |               |         |     |
|                        |                      | Mixing or kneading machines:                                                                                                                                                                                                                                                                                                                                                                                                        |                        |               |         |     |
| 8474.31.00             | 00                   | Concrete or mortar mixers . . . . .                                                                                                                                                                                                                                                                                                                                                                                                 | No.                    | Free          |         | 35% |
| 8474.32.00             | 00                   | Machines for mixing mineral substances with bitumen . . . . .                                                                                                                                                                                                                                                                                                                                                                       | No.                    | Free          |         | 35% |
| 8474.39.00             | 00                   | Other . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                     | No.                    | Free          |         | 35% |
| 8474.80.00             |                      | Other machinery . . . . .                                                                                                                                                                                                                                                                                                                                                                                                           |                        | Free          |         | 35% |
|                        |                      | For agglomerating, shaping or molding solid mineral fuels, ceramic paste, unhardened cements, plastering materials or other mineral products in powder or paste form:                                                                                                                                                                                                                                                               |                        |               |         |     |
|                        | 10                   | Designed for use with ceramic paste, unhardened cements and plastering materials . . . . .                                                                                                                                                                                                                                                                                                                                          | No.                    |               |         |     |
|                        | 15                   | Other . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                     | No.                    |               |         |     |
|                        | 20                   | Machines for forming foundry molds of sand . . . . .                                                                                                                                                                                                                                                                                                                                                                                | No.                    |               |         |     |
|                        | 80                   | Other . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                     | No.                    |               |         |     |
| 8474.90.00             |                      | Parts . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                     |                        | Free          |         | 35% |
|                        | 10                   | Of sorting, screening, separating or washing machines . . . . .                                                                                                                                                                                                                                                                                                                                                                     | X                      |               |         |     |
|                        | 20                   | Of crushing or grinding machines . . . . .                                                                                                                                                                                                                                                                                                                                                                                          | X                      |               |         |     |
|                        | 50                   | Of mixing or kneading machines . . . . .                                                                                                                                                                                                                                                                                                                                                                                            | X                      |               |         |     |
|                        | 90                   | Other . . . . .                                                                                                                                                                                                                                                                                                                                                                                                                     | X                      |               |         |     |

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| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                                                                                         | Unit<br>of<br>Quantity | Rates of Duty |         |     |
|------------------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------|---------|-----|
|                        |                      |                                                                                                                                                                             |                        | 1             |         | 2   |
|                        |                      |                                                                                                                                                                             |                        | General       | Special |     |
| 8475                   |                      | Machines for assembling electric or electronic lamps, tubes or flashbulbs, in glass envelopes; machines for manufacturing or hot working glass or glassware; parts thereof: |                        |               |         |     |
| 8475.10.00             | 00                   | Machines for assembling electric or electronic lamps, tubes or flashbulbs, in glass envelopes . . . . .                                                                     | No. . . . .            | Free          |         | 35% |
| 8475.21.00             | 00                   | Machines for manufacturing or hot working glass or glassware:<br>Machines for making optical fibers and preforms thereof . . . . .                                          | No. . . . .            | Free          |         | 35% |
| 8475.29.00             | 00                   | Other . . . . .                                                                                                                                                             | No. . . . .            | Free          |         | 35% |
| 8475.90                |                      | Parts:                                                                                                                                                                      |                        |               |         |     |
| 8475.90.10             | 00                   | Of machines for assembling electric or electronic lamps, tubes or flashbulbs, in glass envelopes . . . . .                                                                  | X . . . . .            | Free          |         | 35% |
| 8475.90.90             | 00                   | Other . . . . .                                                                                                                                                             | X . . . . .            | Free          |         | 35% |
| 8476                   |                      | Automatic goods-vending machines (for example, postage stamp, cigarette, food or beverage machines), including money-changing machines; parts thereof:                      |                        |               |         |     |
| 8476.21.00             | 00                   | Automatic beverage-vending machines:<br>Incorporating heating or refrigerating devices . . . . .                                                                            | No. . . . .            | Free          |         | 35% |
| 8476.29.00             | 00                   | Other . . . . .                                                                                                                                                             | No. . . . .            | Free          |         | 35% |
| 8476.81.00             | 00                   | Other machines:<br>Incorporating heating or refrigerating devices . . . . .                                                                                                 | No. . . . .            | Free          |         | 35% |
| 8476.89.00             | 00                   | Other . . . . .                                                                                                                                                             | No. . . . .            | Free          |         | 35% |
| 8476.90.00             | 00                   | Parts . . . . .                                                                                                                                                             | X . . . . .            | Free          |         | 35% |

# Harmonized Tariff Schedule of the United States (2004)

Annotated for Statistical Reporting Purposes

XVI  
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| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                                                                                   | Unit<br>of<br>Quantity | Rates of Duty |                                |      |
|------------------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------|--------------------------------|------|
|                        |                      |                                                                                                                                                                       |                        | 1             |                                | 2    |
|                        |                      |                                                                                                                                                                       |                        | General       | Special                        |      |
| 8477                   |                      | Machinery for working rubber or plastics or for the manufacture of products from these materials, not specified or included elsewhere in this chapter; parts thereof: |                        |               |                                |      |
| 8477.10                |                      | Injection-molding machines:                                                                                                                                           |                        |               |                                |      |
| 8477.10.30             | 00                   | For manufacturing shoes . . . . .                                                                                                                                     | No. . . . .            | Free          |                                | Free |
| 8477.10.40             | 00                   | For use in the manufacture of video laser discs . . . . .                                                                                                             | No. . . . .            | Free          |                                | 35%  |
| 8477.10.70             | 00                   | For encapsulation in the assembly of semiconductors . . . . .                                                                                                         | No. . . . .            | Free          |                                | 35%  |
| 8477.10.90             |                      | Other . . . . .                                                                                                                                                       |                        | 3.1%          | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 35%  |
|                        | 15                   | Of a type used for processing rubber or other thermosetting materials . . . . .                                                                                       | No.                    |               |                                |      |
|                        | 30                   | Of a type used for processing thermoplastics:<br>With a clamp force less than 50 tons . . . . .                                                                       | No.                    |               |                                |      |
|                        | 40                   | With a clamp force equal to or greater than 50 tons and less than 300 tons . . . . .                                                                                  | No.                    |               |                                |      |
|                        | 50                   | With a clamp force equal to or greater than 300 tons and less than 750 tons . . . . .                                                                                 | No.                    |               |                                |      |
|                        | 60                   | With a clamp force equal to or greater than 750 tons . . . . .                                                                                                        | No.                    |               |                                |      |
| 8477.20.00             |                      | Extruders . . . . .                                                                                                                                                   |                        | 3.1%          | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 35%  |
|                        |                      | Of a type used for processing rubber or other thermosetting materials:                                                                                                |                        |               |                                |      |
|                        | 05                   | Single screw . . . . .                                                                                                                                                | No.                    |               |                                |      |
|                        | 15                   | Other, including multiple screw . . . . .                                                                                                                             | No.                    |               |                                |      |
|                        |                      | Of a type used for processing thermoplastics:                                                                                                                         |                        |               |                                |      |
|                        |                      | Single screw, with a screw size:                                                                                                                                      |                        |               |                                |      |
|                        | 35                   | Less than 6.4 cm . . . . .                                                                                                                                            | No.                    |               |                                |      |
|                        | 45                   | 6.4 cm or greater . . . . .                                                                                                                                           | No.                    |               |                                |      |
|                        |                      | Other, including multiple screw:                                                                                                                                      |                        |               |                                |      |
|                        | 55                   | With a screw size less than 6.4 cm . . . . .                                                                                                                          | No.                    |               |                                |      |
|                        | 65                   | With a screw size 6.4 cm or greater . . . . .                                                                                                                         | No.                    |               |                                |      |
| 8477.30.00             | 00                   | Blow-molding machines . . . . .                                                                                                                                       | No. . . . .            | 3.1%          | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 35%  |
| 8477.40                |                      | Vacuum-molding machines and other thermoforming machines:                                                                                                             |                        |               |                                |      |
| 8477.40.40             | 00                   | Transfer molding and compression molding machines for encapsulation in the assembly of semiconductors . . . . .                                                       | No. . . . .            | Free          |                                | 35%  |
| 8477.40.80             | 00                   | Other . . . . .                                                                                                                                                       | No. . . . .            | 3.1%          | Free (A,CA,CL,E,IL,J,JO,MX,SG) | 35%  |

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Annotated for Statistical Reporting Purposes

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| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                                                                                                | Unit<br>of<br>Quantity | Rates of Duty |                                 |     |
|------------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------|---------------------------------|-----|
|                        |                      |                                                                                                                                                                                    |                        | 1             |                                 | 2   |
|                        |                      |                                                                                                                                                                                    |                        | General       | Special                         |     |
| 8477<br>(con.)         |                      | Machinery for working rubber or plastics or for the manufacture of products from these materials, not specified or included elsewhere in this chapter; parts thereof (con.)        |                        |               |                                 |     |
| 8477.51.00             |                      | Other machinery for molding or otherwise forming:<br>For molding or retreading pneumatic tires or for molding or otherwise forming inner tubes . . . . .                           | No.                    | 3.1%          | Free (A*,CA,CL,E,IL,J,JO,MX,SG) | 35% |
|                        | 10                   | For molding or retreading pneumatic tires . . . . .                                                                                                                                | No.                    |               |                                 |     |
|                        | 90                   | Other . . . . .                                                                                                                                                                    | No.                    |               |                                 |     |
| 8477.59                |                      | Other:                                                                                                                                                                             |                        |               |                                 |     |
| 8477.59.40             | 00                   | Liquid encapsulate molding machines for encapsulation in the assembly of semiconductors . . . . .                                                                                  | No.                    | Free          |                                 | 35% |
| 8477.59.80             | 00                   | Other . . . . .                                                                                                                                                                    | No.                    | 3.1%          | Free (A,CA,CL,E,IL,J,JO,MX,SG)  | 35% |
| 8477.80.00             | 00                   | Other machinery . . . . .                                                                                                                                                          | No.                    | 3.1%          | Free (A,CA,CL,E,IL,J,JO,MX,SG)  | 35% |
| 8477.90                |                      | Parts:                                                                                                                                                                             |                        |               |                                 |     |
|                        |                      | Base, bed, platen, clamp cylinder, ram, and injection castings, weldments and fabrications:                                                                                        |                        |               |                                 |     |
| 8477.90.15             | 00                   | Of machines of subheading 8477.10.70, 8477.40.40 or 8477.59.40 . . . . .                                                                                                           | X                      | Free          |                                 | 35% |
| 8477.90.25             |                      | Other . . . . .                                                                                                                                                                    |                        | 3.1%          | Free (A,CA,CL,E,IL,J,JO,MX,SG)  | 35% |
|                        | 40                   | Of machines of subheading 8477.10.30, 8477.10.40 or 8477.10.90 . . . . .                                                                                                           | X                      |               |                                 |     |
|                        | 80                   | Other . . . . .                                                                                                                                                                    | X                      |               |                                 |     |
| 8477.90.35             | 00                   | Barrel screws:<br>Of machines of subheading 8477.10.70, 8477.40.40 or 8477.59.40 . . . . .                                                                                         | X                      | Free          |                                 | 35% |
| 8477.90.45             |                      | Other . . . . .                                                                                                                                                                    |                        | 3.1%          | Free (A,CA,CL,E,IL,J,JO,MX,SG)  | 35% |
|                        | 40                   | Of machines of subheading 8477.10.30, 8477.10.40 or 8477.10.90 . . . . .                                                                                                           | X                      |               |                                 |     |
|                        | 80                   | Other . . . . .                                                                                                                                                                    | X                      |               |                                 |     |
| 8477.90.55             | 00                   | Hydraulic assemblies incorporating more than one of the following: manifold; valves; pump; oil cooler:<br>Of machines of subheading 8477.10.70, 8477.40.40 or 8477.59.40 . . . . . | X                      | Free          |                                 | 35% |
| 8477.90.65             | 00                   | Other . . . . .                                                                                                                                                                    | X                      | 3.1%          | Free (A,CA,CL,E,IL,J,JO,MX,SG)  | 35% |
| 8477.90.75             | 00                   | Other:<br>Of machines of subheading 8477.10.70, 8477.40.40 or 8477.59.40 . . . . .                                                                                                 | X                      | Free          |                                 | 35% |
| 8477.90.85             |                      | Other . . . . .                                                                                                                                                                    |                        | 3.1%          | Free (A,CA,CL,E,IL,J,JO,MX,SG)  | 35% |
|                        | 05                   | Of injection-molding machines:<br>For manufacturing shoes . . . . .                                                                                                                | X                      |               |                                 |     |
|                        | 10                   | Other . . . . .                                                                                                                                                                    | X                      |               |                                 |     |
|                        | 20                   | Of extruders . . . . .                                                                                                                                                             | X                      |               |                                 |     |
|                        | 30                   | Of blow-molding machines . . . . .                                                                                                                                                 | X                      |               |                                 |     |
|                        | 40                   | Of machines for forming pneumatic tires . . . . .                                                                                                                                  | X                      |               |                                 |     |
|                        | 95                   | Other parts . . . . .                                                                                                                                                              | X                      |               |                                 |     |

# Harmonized Tariff Schedule of the United States (2004)

Annotated for Statistical Reporting Purposes

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| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                                                                               | Unit<br>of<br>Quantity | Rates of Duty |                                   |     |
|------------------------|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------|-----------------------------------|-----|
|                        |                      |                                                                                                                                                                   |                        | 1             |                                   | 2   |
|                        |                      |                                                                                                                                                                   |                        | General       | Special                           |     |
| 8478                   |                      | Machinery for preparing or making up tobacco, not specified or included elsewhere in this chapter; parts thereof:                                                 |                        |               |                                   |     |
| 8478.10.00             | 10                   | Machinery . . . . .                                                                                                                                               |                        | Free          |                                   | 35% |
|                        | 90                   | Industrial cigarette-making machines . . . . .                                                                                                                    | No.                    |               |                                   |     |
|                        |                      | Other . . . . .                                                                                                                                                   | No.                    |               |                                   |     |
| 8478.90.00             | 10                   | Parts . . . . .                                                                                                                                                   |                        | Free          |                                   | 35% |
|                        | 90                   | Parts of industrial cigarette-making machines . . . . .                                                                                                           | X                      |               |                                   |     |
|                        |                      | Other . . . . .                                                                                                                                                   | X                      |               |                                   |     |
| 8479                   |                      | Machines and mechanical appliances having individual functions, not specified or included elsewhere in this chapter; parts thereof:                               |                        |               |                                   |     |
| 8479.10.00             |                      | Machinery for public works, building or the like . . . . .                                                                                                        |                        | Free          |                                   | 35% |
|                        |                      | Concrete and bituminous pavers, finishers and spreaders:                                                                                                          |                        |               |                                   |     |
|                        | 40                   | For concrete . . . . .                                                                                                                                            | No.                    |               |                                   |     |
|                        | 60                   | For bituminous material . . . . .                                                                                                                                 | No.                    |               |                                   |     |
|                        | 80                   | Other . . . . .                                                                                                                                                   | No.                    |               |                                   |     |
| 8479.20.00             | 00                   | Machinery for the extraction or preparation of animal or fixed vegetable fats or oils . . . . .                                                                   | No. . . . .            | Free          |                                   | 35% |
| 8479.30.00             | 00                   | Presses for the manufacture of particle board or fiber building board of wood or other ligneous materials and other machinery for treating wood or cork . . . . . | No. . . . .            | Free          |                                   | 35% |
| 8479.40.00             | 00                   | Rope or cable-making machines . . . . .                                                                                                                           | No. . . . .            | Free          |                                   | 35% |
| 8479.50.00             | 00                   | Industrial robots, not elsewhere specified or included . . . . .                                                                                                  | No. . . . .            | 2.5%          | Free (A,CA,CL,E,IL,J,JO,MX,SG)    | 35% |
| 8479.60.00             | 00                   | Evaporative air coolers . . . . .                                                                                                                                 | No. . . . .            | 2.8%          | Free (A,CA,CL,E,IL,J,JO,MX,SG)    | 40% |
| 8479.81.00             | 00                   | Other machines and mechanical appliances:<br>For treating metal, including electric wire coil-winders . . . . .                                                   | No. . . . .            | Free          |                                   | 35% |
| 8479.82.00             |                      | Mixing, kneading, crushing, grinding, screening, sifting, homogenizing, emulsifying or stirring machines . . . . .                                                |                        | Free          |                                   | 35% |
|                        | 40                   | Mixing, kneading or stirring machines . . . . .                                                                                                                   | No.                    |               |                                   |     |
|                        | 80                   | Other . . . . .                                                                                                                                                   | No.                    |               |                                   |     |
| 8479.89                |                      | Other:                                                                                                                                                            |                        |               |                                   |     |
|                        |                      | Electromechanical appliances with self-contained electric motor:                                                                                                  |                        |               |                                   |     |
| 8479.89.10             | 00                   | Air humidifiers or dehumidifiers . . . . .                                                                                                                        | No. . . . .            | Free          |                                   | 40% |
| 8479.89.20             | 00                   | Floor polishers . . . . .                                                                                                                                         | No. . . . .            | Free          |                                   | 35% |
| 8479.89.30             |                      | Vacuum cleaners . . . . .                                                                                                                                         |                        | Free          |                                   | 35% |
|                        | 40                   | Industrial vacuum cleaners . . . . .                                                                                                                              | No.                    |               |                                   |     |
|                        | 80                   | Other . . . . .                                                                                                                                                   | No.                    |               |                                   |     |
| 8479.89.55             | 00                   | Trash compactors . . . . .                                                                                                                                        | No. . . . .            | 2.8%          | Free (A,CA,CL,E,IL,J,JO,MX,SG)    | 40% |
| 8479.89.65             | 00                   | Other . . . . .                                                                                                                                                   | X . . . . .            | 2.8%          | Free (A,C1,CA,CL,E,IL,J,JO,MX,SG) | 40% |
| 8479.89.70             | 00                   | Carpet sweepers . . . . .                                                                                                                                         | No. . . . .            | Free          |                                   | 35% |

1/ See additional U.S. note 1 to this chapter.



# Harmonized Tariff Schedule of the United States (2004)

Annotated for Statistical Reporting Purposes

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| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                                                                                                                                                                 | Unit<br>of<br>Quantity | Rates of Duty      |                                                    |     |
|------------------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------------|----------------------------------------------------|-----|
|                        |                      |                                                                                                                                                                                                                                                     |                        | 1                  |                                                    | 2   |
|                        |                      |                                                                                                                                                                                                                                                     |                        | General            | Special                                            |     |
| 8479<br>(con.)         |                      | Machines and mechanical appliances having individual functions, not specified or included elsewhere in this chapter; parts thereof (con.):                                                                                                          |                        |                    |                                                    |     |
| 8479.89<br>(con.)      |                      | Other machines and mechanical appliances (con.):                                                                                                                                                                                                    |                        |                    |                                                    |     |
| 8479.89.84             |                      | Other:                                                                                                                                                                                                                                              |                        |                    |                                                    |     |
|                        |                      | Machines for processing of semiconductor materials; machines for production and assembly of diodes, transistors and similar semiconductor devices and electronic integrated circuits; machines for the manufacturing of video laser discs . . . . . | No.                    | Free               |                                                    | 35% |
|                        | 72                   | Apparatus designed to grow monocrystal semiconductor boules (crystal growers and pullers) . . . . .                                                                                                                                                 | No.                    |                    |                                                    |     |
|                        | 74                   | Machines (spinners) designed to coat photographic emulsions on semiconductor wafers . . . . .                                                                                                                                                       | No.                    |                    |                                                    |     |
|                        | 76                   | Chemical vapor deposition (CVD) apparatus including low pressure and plasma enhanced systems . . . . .                                                                                                                                              | No.                    |                    |                                                    |     |
|                        | 90                   | Other . . . . .                                                                                                                                                                                                                                     | No.                    |                    |                                                    |     |
| 8479.89.87             | 00                   | Machines for wet-cleaning flat panel displays . . . . .                                                                                                                                                                                             | No.                    | Free               |                                                    | 35% |
| 8479.89.96             | 00                   | Printing machines other than those of heading 8443, 8471 or 8472 . . . . .                                                                                                                                                                          | No.                    | Free               |                                                    | 25% |
| 8479.89.98             |                      | Other . . . . .                                                                                                                                                                                                                                     |                        | 2.5% <sup>1/</sup> | Free (A,B,C <sup>2/</sup> ,CA,CL,E,IL,J,JO, MX,SG) | 35% |
|                        | 50                   | Oil and gas field wireline and downhole equipment . . . . .                                                                                                                                                                                         | No.                    |                    |                                                    |     |
|                        | 60                   | Automotive maintenance machines . . . . .                                                                                                                                                                                                           | No.                    |                    |                                                    |     |
|                        | 65                   | Hydraulic accumulators . . . . .                                                                                                                                                                                                                    | No.                    |                    |                                                    |     |
|                        | 85                   | Ultrasonic cleaning devices . . . . .                                                                                                                                                                                                               | No.                    |                    |                                                    |     |
|                        | 95                   | Industrial vibrators . . . . .                                                                                                                                                                                                                      | No.                    |                    |                                                    |     |
|                        | 97                   | Other . . . . .                                                                                                                                                                                                                                     | No.                    |                    |                                                    |     |

<sup>1/</sup> See subheadings 9817.84.01, 9902.84.00, 9902.84.16 and 9902.84.30.

<sup>2/</sup> See additional U.S. note 1 to this chapter.

# Harmonized Tariff Schedule of the United States (2004)

Annotated for Statistical Reporting Purposes

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| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                                                                                  | Unit<br>of<br>Quantity | Rates of Duty |         |     |
|------------------------|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------|---------|-----|
|                        |                      |                                                                                                                                                                      |                        | 1             |         | 2   |
|                        |                      |                                                                                                                                                                      |                        | General       | Special |     |
| 8479<br>(con.)         |                      | Machines and mechanical appliances having individual functions, not specified or included elsewhere in this chapter; parts thereof (con.):                           |                        |               |         |     |
| 8479.90                |                      | Parts:                                                                                                                                                               |                        |               |         |     |
| 8479.90.40             | 00                   | Of articles of subheading 8479.89.10, 8479.89.30 or 8479.89.70 . . . . .                                                                                             | X . . . . .            | Free          |         | 35% |
| 8479.90.45             | 00                   | Of trash compactors:<br>Frame assemblies incorporating more than one of the following: baseplate; side frames; power screws; front plates . . . . .                  | X . . . . .            | Free          |         | 35% |
| 8479.90.55             | 00                   | Ram assemblies incorporating a ram wrapper and/or ram cover . . . . .                                                                                                | X . . . . .            | Free          |         | 35% |
| 8479.90.65             | 00                   | Container assemblies incorporating more than one of the following: container bottom; container wrapper; slide track; container front . . . . .                       | X . . . . .            | Free          |         | 35% |
| 8479.90.75             | 00                   | Cabinets or cases . . . . .                                                                                                                                          | X . . . . .            | Free          |         | 35% |
| 8479.90.85             | 00                   | Other . . . . .                                                                                                                                                      | X . . . . .            | Free          |         | 35% |
| 8479.90.94             |                      | Other . . . . .                                                                                                                                                      |                        | Free          |         | 35% |
|                        | 40                   | Of industrial robots . . . . .                                                                                                                                       | X                      |               |         |     |
|                        |                      | Other:                                                                                                                                                               |                        |               |         |     |
|                        | 50                   | Of machinery for public works, building or the like . . . . .                                                                                                        | X                      |               |         |     |
|                        | 60                   | Of presses for the manufacture of particle board or fiber building board of wood or other ligneous materials and other machinery for treating wood or cork . . . . . | X                      |               |         |     |
|                        | 65                   | Of machines or mechanical appliances for treating metal . . . . .                                                                                                    | X                      |               |         |     |
|                        | 95                   | Other . . . . .                                                                                                                                                      | X                      |               |         |     |

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Annotated for Statistical Reporting Purposes

XVI  
84-87

| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                                                                                                               | Unit<br>of<br>Quantity | Rates of Duty      |                                     |      |
|------------------------|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------------|-------------------------------------|------|
|                        |                      |                                                                                                                                                                                                   |                        | 1                  |                                     | 2    |
|                        |                      |                                                                                                                                                                                                   |                        | General            | Special                             |      |
| 8480                   |                      | Molding boxes for metal foundry; mold bases; molding patterns; molds for metal (other than ingot molds), metal carbides, glass, mineral materials, rubber or plastics:                            |                        |                    |                                     |      |
| 8480.10.00             | 00                   | Molding boxes for metal foundry . . . . .                                                                                                                                                         | No. . . . .            | 3.8%               | Free (A,CA,CL,E,<br>IL,J,JO,MX,SG)  | 45%  |
| 8480.20.00             | 00                   | Mold bases . . . . .                                                                                                                                                                              | No. . . . .            | 3.4%               | Free (A,CA,CL,E,<br>IL,J,JO,MX,SG)  | 50%  |
| 8480.30.00             | 00                   | Molding patterns . . . . .                                                                                                                                                                        | No. . . . .            | 2.8%               | Free (A*,CA,CL,E,<br>IL,J,JO,MX,SG) | 50%  |
| 8480.41.00             | 00                   | Molds for metal or metal carbides:<br>Injection or compression types . . . . .                                                                                                                    | No. . . . .            | 3.1%               | Free (A,CA,CL,E,<br>IL,J,JO,MX,SG)  | 35%  |
| 8480.49.00             | 00                   | Other types . . . . .                                                                                                                                                                             | No. . . . .            | 3.1%               | Free (A,CA,CL,E,<br>IL,J,JO,MX,SG)  | 35%  |
| 8480.50.00             |                      | Molds for glass . . . . .                                                                                                                                                                         |                        | Free               |                                     | 35%  |
|                        | 10                   | Injection or compression types . . . . .                                                                                                                                                          | No.                    |                    |                                     |      |
|                        | 90                   | Other types . . . . .                                                                                                                                                                             | No.                    |                    |                                     |      |
| 8480.60.00             |                      | Molds for mineral materials . . . . .                                                                                                                                                             |                        | Free               |                                     | 35%  |
|                        | 10                   | Injection or compression types . . . . .                                                                                                                                                          | No.                    |                    |                                     |      |
|                        | 90                   | Other types . . . . .                                                                                                                                                                             | No.                    |                    |                                     |      |
| 8480.71                |                      | Molds for rubber or plastics:<br>Injection or compression types:                                                                                                                                  |                        |                    |                                     |      |
| 8480.71.10             | 00                   | For shoe machinery . . . . .                                                                                                                                                                      | No. . . . .            | Free               |                                     | Free |
| 8480.71.40             | 00                   | For the manufacture of semiconductor<br>devices . . . . .                                                                                                                                         | No. . . . .            | Free               |                                     | 35%  |
| 8480.71.80             |                      | Other . . . . .                                                                                                                                                                                   |                        | 3.1% <sup>1/</sup> | Free (A,CA,CL,E,<br>IL,J,JO,MX,SG)  | 35%  |
|                        | 20                   | Temporarily imported for testing,<br>calibration, examination, repair or<br>alteration; returned after being exported<br>for testing, calibration, examination,<br>repair or alteration . . . . . | No.                    |                    |                                     |      |
|                        | 45                   | Other:<br>Injection type . . . . .                                                                                                                                                                | No.                    |                    |                                     |      |
|                        | 60                   | Compression type . . . . .                                                                                                                                                                        | No.                    |                    |                                     |      |
| 8480.79                |                      | Other types:                                                                                                                                                                                      |                        |                    |                                     |      |
| 8480.79.10             | 00                   | Molds for shoe machinery . . . . .                                                                                                                                                                | No. . . . .            | Free               |                                     | Free |
| 8480.79.90             |                      | Other . . . . .                                                                                                                                                                                   |                        | 3.1%               | Free (A,CA,CL,E,<br>IL,J,JO,MX,SG)  | 35%  |
|                        | 10                   | Blow molds . . . . .                                                                                                                                                                              | No.                    |                    |                                     |      |
|                        | 20                   | Bladder operated molds . . . . .                                                                                                                                                                  | No.                    |                    |                                     |      |
|                        | 90                   | Other molds . . . . .                                                                                                                                                                             | No.                    |                    |                                     |      |

<sup>1/</sup> See subheading 9902.84.19.

# Harmonized Tariff Schedule of the United States (2004)

Annotated for Statistical Reporting Purposes

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| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                                                                                                      | Unit<br>of<br>Quantity | Rates of Duty |                                           |     |
|------------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------|-------------------------------------------|-----|
|                        |                      |                                                                                                                                                                                          |                        | 1             |                                           | 2   |
|                        |                      |                                                                                                                                                                                          |                        | General       | Special                                   |     |
| 8481                   |                      | Taps, cocks, valves and similar appliances, for pipes, boiler shells, tanks, vats or the like, including pressure-reducing valves and thermostatically controlled valves; parts thereof: |                        |               |                                           |     |
| 8481.10.00             |                      | Pressure-reducing valves . . . . .                                                                                                                                                       |                        | 2%            | Free (A,B,CA,CL, E,IL,J,JO,MX, SG)        | 35% |
|                        | 20                   | Hydraulic fluid power type . . . . .                                                                                                                                                     | No.<br>kg              |               |                                           |     |
|                        | 40                   | Pneumatic fluid power type:<br>Filter-regulators and filter-regulator-lubricators . . . . .                                                                                              | No.<br>kg              |               |                                           |     |
|                        | 60                   | Other . . . . .                                                                                                                                                                          | No.<br>kg              |               |                                           |     |
|                        | 90                   | Other . . . . .                                                                                                                                                                          | No.<br>kg              |               |                                           |     |
| 8481.20.00             |                      | Valves for oleohydraulic or pneumatic transmissions . . . . .                                                                                                                            |                        | 2%            | Free (A,B,CA,CL, E,IL,J,JO,MX, SG)        | 35% |
|                        |                      | Hydraulic valves:                                                                                                                                                                        |                        |               |                                           |     |
|                        | 10                   | Directional control:<br>Manual type . . . . .                                                                                                                                            | No.<br>kg              |               |                                           |     |
|                        | 20                   | Solenoid type . . . . .                                                                                                                                                                  | No.<br>kg              |               |                                           |     |
|                        | 30                   | Other . . . . .                                                                                                                                                                          | No.<br>kg              |               |                                           |     |
|                        | 40                   | Flow control type . . . . .                                                                                                                                                              | No.<br>kg              |               |                                           |     |
|                        | 50                   | Other . . . . .                                                                                                                                                                          | No.<br>kg              |               |                                           |     |
|                        |                      | Other:                                                                                                                                                                                   |                        |               |                                           |     |
|                        | 60                   | Directional control:<br>Solenoid type . . . . .                                                                                                                                          | No.<br>kg              |               |                                           |     |
|                        | 70                   | Other . . . . .                                                                                                                                                                          | No.<br>kg              |               |                                           |     |
|                        | 80                   | Other . . . . .                                                                                                                                                                          | No.<br>kg              |               |                                           |     |
| 8481.30                |                      | Check (nonreturn) valves:                                                                                                                                                                |                        |               |                                           |     |
| 8481.30.10             |                      | Of copper . . . . .                                                                                                                                                                      |                        | 3%            | Free (A,B,CA,CL, E,IL,J,JO,MX, SG)        | 45% |
|                        | 10                   | Having a pressure rating under 850 kPa . . . . .                                                                                                                                         | No.<br>kg              |               |                                           |     |
|                        | 90                   | Having a pressure rating of 850 kPa or over . . . . .                                                                                                                                    | No.<br>kg              |               |                                           |     |
| 8481.30.20             |                      | Of iron or steel . . . . .                                                                                                                                                               |                        | 5%            | Free (A*,B,CA,CL, E,IL,J,JO,MX) 3.7% (SG) | 45% |
|                        | 10                   | Of iron . . . . .                                                                                                                                                                        | No.<br>kg              |               |                                           |     |
|                        | 90                   | Of steel . . . . .                                                                                                                                                                       | No.<br>kg              |               |                                           |     |
| 8481.30.90             | 00                   | Other . . . . .                                                                                                                                                                          | No.<br>kg              | 3%            | Free (A,B,CA,CL, E,IL,J,JO,MX, SG)        | 45% |
| 8481.40.00             | 00                   | Safety or relief valves . . . . .                                                                                                                                                        | No.<br>kg              | 2%            | Free (A,B,CA,CL, E,IL,J,JO,MX, SG)        | 35% |

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| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                                                                                                             | Unit<br>of<br>Quantity | Rates of Duty |                                          |     |
|------------------------|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------|------------------------------------------|-----|
|                        |                      |                                                                                                                                                                                                 |                        | 1             |                                          | 2   |
|                        |                      |                                                                                                                                                                                                 |                        | General       | Special                                  |     |
| 8481<br>(con.)         |                      | Taps, cocks, valves and similar appliances, for pipes, boiler shells, tanks, vats or the like, including pressure-reducing valves and thermostatically controlled valves; parts thereof (con.): |                        |               |                                          |     |
| 8481.80                |                      | Other appliances:                                                                                                                                                                               |                        |               |                                          |     |
| 8481.80.10             |                      | Hand operated:                                                                                                                                                                                  |                        |               |                                          |     |
|                        |                      | Of copper .....                                                                                                                                                                                 |                        | 4%            | Free (A,B,CA,CL, E,IL,J,JO,MX, SG)       | 47% |
|                        | 20                   | Having a pressure rating under 850 kPa:<br>Bath and shower faucets .....                                                                                                                        | No.<br>kg              |               |                                          |     |
|                        | 30                   | Sink and lavatory faucets .....                                                                                                                                                                 | No.<br>kg              |               |                                          |     |
|                        | 40                   | Supply stops .....                                                                                                                                                                              | No.<br>kg              |               |                                          |     |
|                        | 50                   | Other .....                                                                                                                                                                                     | No.<br>kg              |               |                                          |     |
|                        | 60                   | Having a pressure rating of 850 kPa or over:<br>Gate type .....                                                                                                                                 | No.<br>kg              |               |                                          |     |
|                        | 70                   | Globe type .....                                                                                                                                                                                | No.<br>kg              |               |                                          |     |
|                        | 75                   | Plug type .....                                                                                                                                                                                 | No.<br>kg              |               |                                          |     |
|                        | 85                   | Ball type .....                                                                                                                                                                                 | No.<br>kg              |               |                                          |     |
|                        | 90                   | Butterfly type .....                                                                                                                                                                            | No.<br>kg              |               |                                          |     |
|                        | 95                   | Other .....                                                                                                                                                                                     | No.<br>kg              |               |                                          |     |
| 8481.80.30             |                      | Of iron or steel .....                                                                                                                                                                          |                        | 5.6%          | Free (A*,B,CA,CL E,IL,J,JO,MX) 4.2% (SG) | 45% |
|                        | 10                   | Of iron:<br>Gate type .....                                                                                                                                                                     | No.<br>kg              |               |                                          |     |
|                        | 15                   | Globe type .....                                                                                                                                                                                | No.<br>kg              |               |                                          |     |
|                        | 20                   | Plug type .....                                                                                                                                                                                 | No.<br>kg              |               |                                          |     |
|                        | 25                   | Ball type .....                                                                                                                                                                                 | No.<br>kg              |               |                                          |     |
|                        | 30                   | Butterfly type .....                                                                                                                                                                            | No.<br>kg              |               |                                          |     |
|                        | 40                   | Other .....                                                                                                                                                                                     | No.<br>kg              |               |                                          |     |
|                        | 55                   | Of steel:<br>Gate type .....                                                                                                                                                                    | No.<br>kg              |               |                                          |     |
|                        | 60                   | Globe type .....                                                                                                                                                                                | No.<br>kg              |               |                                          |     |
|                        | 65                   | Plug type .....                                                                                                                                                                                 | No.<br>kg              |               |                                          |     |
|                        | 70                   | Ball type .....                                                                                                                                                                                 | No.<br>kg              |               |                                          |     |
|                        | 75                   | Butterfly type .....                                                                                                                                                                            | No.<br>kg              |               |                                          |     |
|                        | 90                   | Other .....                                                                                                                                                                                     | No.<br>kg              |               |                                          |     |

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| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                                                                                                             | Unit<br>of<br>Quantity | Rates of Duty |                                           |     |
|------------------------|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------|-------------------------------------------|-----|
|                        |                      |                                                                                                                                                                                                 |                        | 1             |                                           | 2   |
|                        |                      |                                                                                                                                                                                                 |                        | General       | Special                                   |     |
| 8481<br>(con.)         |                      | Taps, cocks, valves and similar appliances, for pipes, boiler shells, tanks, vats or the like, including pressure-reducing valves and thermostatically controlled valves; parts thereof (con.): |                        |               |                                           |     |
| 8481.80<br>(con.)      |                      | Other appliances (con.):                                                                                                                                                                        |                        |               |                                           |     |
|                        |                      | Hand operated (con.):                                                                                                                                                                           |                        |               |                                           |     |
| 8481.80.50             |                      | Of other materials .....                                                                                                                                                                        |                        | 3%            | Free (A,B,CA,CL, E,IL,J,JO,MX, SG)        | 45% |
|                        | 40                   | Pressure spray can valves .....                                                                                                                                                                 | No.<br>kg              |               |                                           |     |
|                        | 60                   | Bath, shower, sink and lavatory faucets ..                                                                                                                                                      | No.<br>kg              |               |                                           |     |
|                        | 90                   | Other .....                                                                                                                                                                                     | No.<br>kg              |               |                                           |     |
| 8481.80.90             |                      | Other .....                                                                                                                                                                                     |                        | 2%            | Free (A*,B,CA,CL, E,IL,J,JO,MX, SG)       | 35% |
|                        | 05                   | Solenoid valves .....                                                                                                                                                                           | No.                    |               |                                           |     |
|                        | 10                   | Ballcock mechanisms .....                                                                                                                                                                       | No.                    |               |                                           |     |
|                        | 15                   | Regulator valves, self-operating, for controlling variables such as temperature, pressure, flow and liquid level .....                                                                          | No.                    |               |                                           |     |
|                        |                      | Other:                                                                                                                                                                                          |                        |               |                                           |     |
|                        |                      | With electrical or electro-hydraulic actuators:                                                                                                                                                 |                        |               |                                           |     |
|                        | 20                   | Control valves designed for proportional operation by a signal from a control device .....                                                                                                      | No.                    |               |                                           |     |
|                        | 25                   | Other .....                                                                                                                                                                                     | No.                    |               |                                           |     |
|                        | 30                   | With hydraulic actuators .....                                                                                                                                                                  | No.                    |               |                                           |     |
|                        |                      | With pneumatic actuators:                                                                                                                                                                       |                        |               |                                           |     |
|                        | 35                   | Control valves designed for proportional operation by a signal from a control device .....                                                                                                      | No.                    |               |                                           |     |
|                        | 40                   | Other .....                                                                                                                                                                                     | No.                    |               |                                           |     |
|                        | 45                   | With thermostatic actuators .....                                                                                                                                                               | No.                    |               |                                           |     |
|                        | 50                   | Other .....                                                                                                                                                                                     | No.                    |               |                                           |     |
| 8481.90                |                      | Parts:                                                                                                                                                                                          |                        |               |                                           |     |
|                        |                      | Of hand operated and check appliances:                                                                                                                                                          |                        |               |                                           |     |
| 8481.90.10             | 00                   | Of copper .....                                                                                                                                                                                 | kg                     | 3%            | Free (A,B,CA,CL, E,IL,J,JO,MX, SG)        | 47% |
| 8481.90.30             | 00                   | Of iron or steel .....                                                                                                                                                                          | kg                     | 5%            | Free (A*,B,CA,CL, E,IL,J,JO,MX) 3.7% (SG) | 45% |
| 8481.90.50             | 00                   | Of other materials .....                                                                                                                                                                        | kg                     | 3%            | Free (A,B,CA,CL, E,IL,J,JO,MX, SG)        | 45% |
| 8481.90.90             |                      | Other .....                                                                                                                                                                                     |                        | Free          |                                           | 35% |
|                        |                      | Of valves of subheading 8481.20:                                                                                                                                                                |                        |               |                                           |     |
|                        | 20                   | Valve bodies .....                                                                                                                                                                              | kg                     |               |                                           |     |
|                        | 40                   | Other .....                                                                                                                                                                                     | kg                     |               |                                           |     |
|                        |                      | Other:                                                                                                                                                                                          |                        |               |                                           |     |
|                        | 60                   | Valve bodies .....                                                                                                                                                                              | kg                     |               |                                           |     |
|                        | 80                   | Other .....                                                                                                                                                                                     | kg                     |               |                                           |     |

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| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                         | Unit<br>of<br>Quantity | Rates of Duty |                                                   |     |
|------------------------|----------------------|-------------------------------------------------------------|------------------------|---------------|---------------------------------------------------|-----|
|                        |                      |                                                             |                        | 1             |                                                   | 2   |
|                        |                      |                                                             |                        | General       | Special                                           |     |
| 8482                   |                      | Ball or roller bearings, and parts thereof:                 |                        |               |                                                   |     |
| 8482.10                |                      | Ball bearings:                                              |                        |               |                                                   |     |
| 8482.10.10             |                      | Ball bearings with integral shafts .....                    |                        | 2.4%          | Free (A+,B,CA,CL,<br>D,E,IL,J,JO,MX,<br>SG)       | 35% |
|                        | 40                   | Bearings having an outside diameter not<br>over 30 mm ..... | No.<br>kg              |               |                                                   |     |
|                        | 80                   | Other .....                                                 | No.<br>kg              |               |                                                   |     |
| 8482.10.50             |                      | Other .....                                                 |                        | 9%            | Free (A+,B,CA,CL,<br>D,E,IL,J,JO,MX)<br>6.7% (SG) | 67% |
|                        | 04                   | Unground bearings .....                                     | No.                    |               |                                                   |     |
|                        | 08                   | Other:                                                      |                        |               |                                                   |     |
|                        |                      | Thrust bearings .....                                       | No.<br>kg              |               |                                                   |     |
|                        | 12                   | Linear bearings .....                                       | No.<br>kg              |               |                                                   |     |
|                        |                      | Angular contact bearings:                                   |                        |               |                                                   |     |
|                        |                      | Wheel hub bearings units:                                   |                        |               |                                                   |     |
|                        | 16                   | Flanged .....                                               | No.<br>kg              |               |                                                   |     |
|                        | 24                   | Other .....                                                 | No.<br>kg              |               |                                                   |     |
|                        | 28                   | Other .....                                                 | No.<br>kg              |               |                                                   |     |
|                        |                      | Radial bearings:                                            |                        |               |                                                   |     |
|                        |                      | Single row bearings:                                        |                        |               |                                                   |     |
|                        | 32                   | Maximum or full capacity type . . . .                       | No.<br>kg              |               |                                                   |     |
|                        |                      | Other bearings, having an outside<br>diameter of:           |                        |               |                                                   |     |
|                        | 36                   | Under 9 mm .....                                            | No.<br>kg              |               |                                                   |     |
|                        | 44                   | 9 mm and over but not over<br>30 mm .....                   | No.<br>kg              |               |                                                   |     |
|                        | 48                   | Over 30 mm but not over<br>52 mm .....                      | No.<br>kg              |               |                                                   |     |
|                        | 52                   | Over 52 mm but not over<br>100 mm. ....                     | No.<br>kg              |               |                                                   |     |
|                        | 56                   | Over 100 mm .....                                           | No.<br>kg              |               |                                                   |     |
|                        | 60                   | Double row ball bearings .....                              | No.<br>kg              |               |                                                   |     |
|                        | 64                   | Other .....                                                 | No.<br>kg              |               |                                                   |     |
|                        | 68                   | Other .....                                                 | No.<br>kg              |               |                                                   |     |

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| Heading/<br>Subheading       | Stat.<br>Suf-<br>fix | Article Description                                                         | Unit<br>of<br>Quantity | Rates of Duty |                                             |     |
|------------------------------|----------------------|-----------------------------------------------------------------------------|------------------------|---------------|---------------------------------------------|-----|
|                              |                      |                                                                             |                        | 1             |                                             | 2   |
|                              |                      |                                                                             |                        | General       | Special                                     |     |
| 8482<br>(con.)<br>8482.20.00 |                      | Ball or roller bearings, and parts thereof (con.):                          |                        |               |                                             |     |
|                              |                      | Tapered roller bearings, including cone and tapered roller assemblies ..... |                        | 5.8%          | Free (A+,B,CA,CL, D,E,IL,J,JO,MX) 4.3% (SG) | 67% |
|                              |                      | Cup and cone assemblies entered as a set:                                   |                        |               |                                             |     |
|                              |                      | Wheel hub units:                                                            |                        |               |                                             |     |
|                              | 20                   | Flanged .....                                                               | No.<br>kg              |               |                                             |     |
|                              | 30                   | Other .....                                                                 | No.<br>kg              |               |                                             |     |
|                              |                      | Other:                                                                      |                        |               |                                             |     |
|                              | 40                   | With cups having an outside diameter not exceeding 102 mm .....             | No.<br>kg              |               |                                             |     |
|                              | 60                   | Other .....                                                                 | No.<br>kg              |               |                                             |     |
|                              |                      | Cone assemblies entered separately:                                         |                        |               |                                             |     |
|                              | 70                   | For cups having an outside diameter not exceeding 102 mm .....              | No.<br>kg              |               |                                             |     |
|                              | 80                   | Other .....                                                                 | No.<br>kg              |               |                                             |     |
| 8482.30.00                   |                      | Spherical roller bearings .....                                             |                        | 5.8%          | Free (A,B,CA,CL, E,IL,J,JO,MX) 4.3% (SG)    | 67% |
|                              | 40                   | Single row .....                                                            | No.<br>kg              |               |                                             |     |
|                              | 80                   | Other .....                                                                 | No.<br>kg              |               |                                             |     |
| 8482.40.00                   | 00                   | Needle roller bearings .....                                                | No.<br>kg              | 5.8%          | Free (A,B,CA,CL, E,IL,J,JO,MX) 4.3% (SG)    | 67% |
| 8482.50.00                   | 00                   | Other cylindrical roller bearings .....                                     | No.<br>kg              | 5.8%          | Free (A,B,CA,CL, E,IL,J,JO,MX) 4.3% (SG)    | 67% |
| 8482.80.00                   |                      | Other, including combined ball/roller bearings .....                        |                        | 5.8%          | Free (A,B,CA,CL, E,IL,J,JO,MX) 4.3% (SG)    | 67% |
|                              | 20                   | Combined ball and spherical roller bearings .....                           | No.<br>kg              |               |                                             |     |
|                              | 40                   | Combined ball and needle roller bearings .....                              | No.<br>kg              |               |                                             |     |
|                              | 60                   | Combined ball and other cylindrical roller bearings .....                   | No.<br>kg              |               |                                             |     |
|                              | 80                   | Other .....                                                                 | No.<br>kg              |               |                                             |     |



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| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                   | Unit<br>of<br>Quantity | Rates of Duty |                                                   |     |
|------------------------|----------------------|-------------------------------------------------------------------------------------------------------|------------------------|---------------|---------------------------------------------------|-----|
|                        |                      |                                                                                                       |                        | 1             |                                                   | 2   |
|                        |                      |                                                                                                       |                        | General       | Special                                           |     |
| 8482<br>(con.)         |                      | Ball or roller bearings, and parts thereof (con.):                                                    |                        |               |                                                   |     |
| 8482.91.00             |                      | Parts:<br>Balls, needles and rollers . . . . .                                                        |                        | 4.4%          | Free (A+,B,CA,CL,<br>D,E,IL,J,JO,MX,<br>SG)       | 45% |
|                        | 10                   | Balls:<br>Of alloy steel . . . . .                                                                    | kg                     |               |                                                   |     |
|                        | 20                   | Other . . . . .                                                                                       | kg                     |               |                                                   |     |
|                        | 40                   | Needles . . . . .                                                                                     | kg                     |               |                                                   |     |
|                        | 50                   | Tapered rollers . . . . .                                                                             | kg                     |               |                                                   |     |
|                        | 70                   | Spherical rollers . . . . .                                                                           | kg                     |               |                                                   |     |
|                        | 80                   | Other cylindrical rollers . . . . .                                                                   | kg                     |               |                                                   |     |
|                        | 90                   | Other . . . . .                                                                                       | kg                     |               |                                                   |     |
| 8482.99                |                      | Other:                                                                                                |                        |               |                                                   |     |
| 8482.99.05             | 00                   | Inner or outer rings or races:<br>For ball bearings . . . . .                                         | No.<br>kg              | 9.9%          | Free (A+,B,CA,CL,<br>D,E,IL,J,JO,MX)<br>7.4% (SG) | 67% |
| 8482.99.15             |                      | For tapered roller bearings . . . . .                                                                 |                        | 5.8%          | Free (A+,B,CA,CL,<br>D,E,IL,J,JO,MX)<br>4.3% (SG) | 67% |
|                        | 40                   | Cups . . . . .                                                                                        | No.<br>kg              |               |                                                   |     |
|                        | 80                   | Other . . . . .                                                                                       | No.<br>kg              |               |                                                   |     |
| 8482.99.25             |                      | Other . . . . .                                                                                       |                        | 5.8%          | Free (A+,B,CA,CL,<br>D,E,IL,J,JO,MX)<br>4.3% (SG) | 67% |
|                        | 20                   | For spherical roller<br>bearings . . . . .                                                            | No.<br>kg              |               |                                                   |     |
|                        | 40                   | For needle bearings . . . . .                                                                         | No.<br>kg              |               |                                                   |     |
|                        | 60                   | For other cylindrical<br>roller bearings . . . . .                                                    | No.<br>kg              |               |                                                   |     |
|                        | 80                   | Other . . . . .                                                                                       | No.<br>kg              |               |                                                   |     |
| 8482.99.35             | 00                   | Other:<br>Parts of ball bearings (including parts of<br>ball bearings with integral shafts) . . . . . | kg                     | 9.9%          | Free (A+,B,CA,CL,<br>D,E,IL,J,JO,MX)<br>7.4% (SG) | 67% |
| 8482.99.45             | 00                   | Parts of tapered roller bearings . . . . .                                                            | kg                     | 5.8%          | Free (A+,B,CA,CL,<br>D,E,IL,J,JO,MX)<br>4.3% (SG) | 67% |
| 8482.99.65             |                      | Other . . . . .                                                                                       |                        | 5.8%          | Free (A+,B,CA,CL,<br>D,E,IL,J,JO,MX)<br>4.3% (SG) | 67% |
|                        | 10                   | For spherical roller bearings . . . . .                                                               | kg                     |               |                                                   |     |
|                        | 30                   | For needle bearings . . . . .                                                                         | kg                     |               |                                                   |     |
|                        | 60                   | For other cylindrical roller bearings . . . . .                                                       | kg                     |               |                                                   |     |
|                        | 95                   | Other . . . . .                                                                                       | kg                     |               |                                                   |     |

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| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                                                                                                                                                                                                                                                                                     | Unit<br>of<br>Quantity | Rates of Duty |                                     |     |
|------------------------|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------|-------------------------------------|-----|
|                        |                      |                                                                                                                                                                                                                                                                                                                                                                         |                        | 1             |                                     | 2   |
|                        |                      |                                                                                                                                                                                                                                                                                                                                                                         |                        | General       | Special                             |     |
| 8483                   |                      | Transmission shafts (including camshafts and crankshafts) and cranks; bearing housings, housed bearings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers, including torque converters; flywheels and pulleys, including pulley blocks; clutches and shaft couplings (including universal joints); parts thereof: |                        |               |                                     |     |
| 8483.10                |                      | Transmission shafts (including camshafts and crankshafts) and cranks:                                                                                                                                                                                                                                                                                                   |                        |               |                                     |     |
|                        |                      | Camshafts and crankshafts:                                                                                                                                                                                                                                                                                                                                              |                        |               |                                     |     |
| 8483.10.10             |                      | Designed for use solely or principally with spark-ignition internal combustion piston engines or rotary engines                                                                                                                                                                                                                                                         |                        | 2.5%          | Free (A,B,C,CA,CL,E,IL,J,JO,MX,SG)  | 35% |
|                        | 10                   | For vehicles of chapter 87:                                                                                                                                                                                                                                                                                                                                             |                        |               |                                     |     |
|                        |                      | For motorcycles                                                                                                                                                                                                                                                                                                                                                         | No. kg                 |               |                                     |     |
|                        | 30                   | Other                                                                                                                                                                                                                                                                                                                                                                   | No. kg                 |               |                                     |     |
|                        | 50                   | Other                                                                                                                                                                                                                                                                                                                                                                   | No. kg                 |               |                                     |     |
| 8483.10.30             |                      | Other                                                                                                                                                                                                                                                                                                                                                                   |                        | 2.5%          | Free (A,B,C,CA,CL,E,IL,J,JO,MX,SG)  | 35% |
|                        | 10                   | For vehicles of chapter 87                                                                                                                                                                                                                                                                                                                                              | No. kg                 |               |                                     |     |
|                        | 50                   | Other                                                                                                                                                                                                                                                                                                                                                                   | No. kg                 |               |                                     |     |
| 8483.10.50             | 00                   | Other transmission shafts and cranks                                                                                                                                                                                                                                                                                                                                    | kg                     | Free          |                                     | 30% |
| 8483.20                |                      | Housed bearings, incorporating ball or roller bearings:                                                                                                                                                                                                                                                                                                                 |                        |               |                                     |     |
| 8483.20.40             |                      | Flange, take-up, cartridge and hanger units                                                                                                                                                                                                                                                                                                                             |                        | 4.5%          | Free (A,CA,CL,E,IL,J,JO,MX,SG)      | 45% |
|                        | 40                   | Incorporating ball bearings                                                                                                                                                                                                                                                                                                                                             | No.                    |               |                                     |     |
|                        | 80                   | Incorporating roller bearings                                                                                                                                                                                                                                                                                                                                           | No.                    |               |                                     |     |
| 8483.20.80             |                      | Other                                                                                                                                                                                                                                                                                                                                                                   |                        | 4.5%          | Free (A+,CA,CL,D,E,IL,J,JO,MX,SG)   | 45% |
|                        | 40                   | Incorporating ball bearings                                                                                                                                                                                                                                                                                                                                             | No.                    |               |                                     |     |
|                        | 80                   | Incorporating roller bearings                                                                                                                                                                                                                                                                                                                                           | No.                    |               |                                     |     |
| 8483.30                |                      | Bearing housings; plain shaft bearings:                                                                                                                                                                                                                                                                                                                                 |                        |               |                                     |     |
| 8483.30.40             |                      | Flange, take-up, cartridge and hanger units                                                                                                                                                                                                                                                                                                                             |                        | 4.5%          | Free (A,C,CA,CL,E,IL,J,JO,MX,SG)    | 45% |
|                        | 40                   | Ball or roller bearing type                                                                                                                                                                                                                                                                                                                                             | kg                     |               |                                     |     |
|                        | 80                   | Other                                                                                                                                                                                                                                                                                                                                                                   | kg                     |               |                                     |     |
| 8483.30.80             |                      | Other                                                                                                                                                                                                                                                                                                                                                                   |                        | 4.5%          | Free (A+,C,CA,CL,D,E,IL,J,JO,MX,SG) | 45% |
|                        | 20                   | Bearing housings:                                                                                                                                                                                                                                                                                                                                                       |                        |               |                                     |     |
|                        |                      | Ball or roller bearing type                                                                                                                                                                                                                                                                                                                                             | kg                     |               |                                     |     |
|                        | 40                   | Other                                                                                                                                                                                                                                                                                                                                                                   | kg                     |               |                                     |     |
|                        |                      | Plain shaft bearings:                                                                                                                                                                                                                                                                                                                                                   |                        |               |                                     |     |
|                        |                      | With housing:                                                                                                                                                                                                                                                                                                                                                           |                        |               |                                     |     |
|                        | 55                   | Rod end bearings                                                                                                                                                                                                                                                                                                                                                        | No. kg                 |               |                                     |     |
|                        | 65                   | Other                                                                                                                                                                                                                                                                                                                                                                   | No. kg                 |               |                                     |     |
|                        |                      | Without housing:                                                                                                                                                                                                                                                                                                                                                        |                        |               |                                     |     |
|                        | 70                   | Spherical                                                                                                                                                                                                                                                                                                                                                               | No. kg                 |               |                                     |     |
|                        | 90                   | Other                                                                                                                                                                                                                                                                                                                                                                   | No. kg                 |               |                                     |     |

# Harmonized Tariff Schedule of the United States (2004)

Annotated for Statistical Reporting Purposes

XVI  
84-95

| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                                                                                                                                                                                                                                                                                            | Unit<br>of<br>Quantity | Rates of Duty   |                                          |                   |
|------------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-----------------|------------------------------------------|-------------------|
|                        |                      |                                                                                                                                                                                                                                                                                                                                                                                |                        | 1               |                                          | 2                 |
|                        |                      |                                                                                                                                                                                                                                                                                                                                                                                |                        | General         | Special                                  |                   |
| 8483<br>(con.)         |                      | Transmission shafts (including camshafts and crankshafts) and cranks; bearing housings, housed bearings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers, including torque converters; flywheels and pulleys, including pulley blocks; clutches and shaft couplings (including universal joints); parts thereof (con.): |                        |                 |                                          |                   |
| 8483.40                |                      | Gears and gearing, other than toothed wheels, chain sprockets and other transmission elements entered separately; ball or roller screws; gear boxes and other speed changers, including torque converters:                                                                                                                                                                     |                        |                 |                                          |                   |
| 8483.40.10             | 00                   | Torque converters                                                                                                                                                                                                                                                                                                                                                              | No. ....               | Free            |                                          | 27.5%             |
|                        |                      | Gear boxes and other speed changers:                                                                                                                                                                                                                                                                                                                                           |                        |                 |                                          |                   |
|                        |                      | Fixed ratio speed changers, multiple and variable ratio speed changers each ratio of which is selected by manual manipulation:                                                                                                                                                                                                                                                 |                        |                 |                                          |                   |
| 8483.40.30             |                      | Imported for use with machines for making cellulosic pulp, paper or paperboard                                                                                                                                                                                                                                                                                                 |                        | Free            |                                          | 27.5%             |
|                        | 40                   | Fixed ratio speed changers                                                                                                                                                                                                                                                                                                                                                     | No.                    |                 |                                          |                   |
|                        | 80                   | Other                                                                                                                                                                                                                                                                                                                                                                          | No.                    |                 |                                          |                   |
| 8483.40.50             |                      | Other                                                                                                                                                                                                                                                                                                                                                                          |                        | 2.5%            | Free (A,C,CA,CL, E,IL,J,JO,MX, SG)       | 27.5%             |
|                        | 10                   | Fixed ratio speed changers                                                                                                                                                                                                                                                                                                                                                     | No.                    |                 |                                          |                   |
|                        | 50                   | Other                                                                                                                                                                                                                                                                                                                                                                          | No.                    |                 |                                          |                   |
| 8483.40.70             | 00                   | Other speed changers                                                                                                                                                                                                                                                                                                                                                           | No. ....               | 25¢ each + 3.9% | Free (A,C,CA,CL, E,IL,J,JO,MX, SG)       | \$4.50 each + 65% |
| 8483.40.80             | 00                   | Ball or roller screws                                                                                                                                                                                                                                                                                                                                                          | X .....                | 3.8%            | Free (A,B,C,CA, CL,E,IL,J,JO, MX,SG)     | 45%               |
| 8483.40.90             | 00                   | Gears and gearing, other than toothed wheels, chain sprockets and other transmission elements entered separately                                                                                                                                                                                                                                                               | X .....                | 2.5%            | Free (A,B,C,CA, CL,E,IL,J,JO, MX,SG)     | 27.5%             |
| 8483.50                |                      | Flywheels and pulleys, including pulley blocks:                                                                                                                                                                                                                                                                                                                                |                        |                 |                                          |                   |
| 8483.50.40             | 00                   | Gray-iron awning or tackle pulleys, not over 6.4 cm in wheel diameter                                                                                                                                                                                                                                                                                                          | X .....                | 5.7%            | Free (A,C,CA,CL, E,IL,J,JO,MX) 4.2% (SG) | 45%               |
|                        |                      | Other:                                                                                                                                                                                                                                                                                                                                                                         |                        |                 |                                          |                   |
| 8483.50.60             | 00                   | Flywheels                                                                                                                                                                                                                                                                                                                                                                      | X .....                | 2.8%            | Free (A,B,C,CA, CL,E,IL,J,JO, MX,SG)     | 45%               |
| 8483.50.90             |                      | Other                                                                                                                                                                                                                                                                                                                                                                          |                        | 2.8%            | Free (A,B,C,CA, CL,E,IL,J,JO, MX,SG)     | 45%               |
|                        | 40                   | Grooved pulleys                                                                                                                                                                                                                                                                                                                                                                | X                      |                 |                                          |                   |
|                        | 80                   | Other                                                                                                                                                                                                                                                                                                                                                                          | X                      |                 |                                          |                   |
| 8483.60                |                      | Clutches and shaft couplings (including universal joints):                                                                                                                                                                                                                                                                                                                     |                        |                 |                                          |                   |
| 8483.60.40             |                      | Clutches and universal joints                                                                                                                                                                                                                                                                                                                                                  |                        | 2.8%            | Free (A,B,C,CA, CL,E,IL,J,JO, MX,SG)     | 45%               |
|                        | 40                   | Clutches                                                                                                                                                                                                                                                                                                                                                                       | No.                    |                 |                                          |                   |
|                        | 80                   | Universal joints                                                                                                                                                                                                                                                                                                                                                               | No.                    |                 |                                          |                   |
| 8483.60.80             | 00                   | Other                                                                                                                                                                                                                                                                                                                                                                          | X .....                | 2.8%            | Free (A+,B,C,CA, CL,D,E,IL,J,JO, MX,SG)  | 45%               |

# Harmonized Tariff Schedule of the United States (2004)

Annotated for Statistical Reporting Purposes

XVI  
84-96

| Heading/<br>Subheading | Stat.<br>Suf-<br>fix | Article Description                                                                                                                                                                                                                                                                                                                                                            | Unit<br>of<br>Quantity | Rates of Duty |                                           |       |
|------------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------|-------------------------------------------|-------|
|                        |                      |                                                                                                                                                                                                                                                                                                                                                                                |                        | 1             |                                           | 2     |
|                        |                      |                                                                                                                                                                                                                                                                                                                                                                                |                        | General       | Special                                   |       |
| 8483<br>(con.)         |                      | Transmission shafts (including camshafts and crankshafts) and cranks; bearing housings, housed bearings and plain shaft bearings; gears and gearing; ball or roller screws; gear boxes and other speed changers, including torque converters; flywheels and pulleys, including pulley blocks; clutches and shaft couplings (including universal joints); parts thereof (con.): |                        |               |                                           |       |
| 8483.90                |                      | Toothed wheels, chain sprockets and other transmission elements presented separately; parts:                                                                                                                                                                                                                                                                                   |                        |               |                                           |       |
| 8483.90.10             |                      | Chain sprockets and parts thereof                                                                                                                                                                                                                                                                                                                                              |                        | 2.8%          | Free (A,B,C,CA,CL,E,IL,J,JO, MX,SG)       | 45%   |
|                        | 10                   | Forged                                                                                                                                                                                                                                                                                                                                                                         | kg                     |               |                                           |       |
|                        | 50                   | Other                                                                                                                                                                                                                                                                                                                                                                          | kg                     |               |                                           |       |
| 8483.90.20             | 00                   | Parts of bearing housings and plain shaft bearings: Parts of flange, take-up, cartridge and hanger units                                                                                                                                                                                                                                                                       | X                      | 4.5%          | Free (A,C,CA,CL, E,IL,J,JO,MX, SG)        | 45%   |
| 8483.90.30             | 00                   | Other                                                                                                                                                                                                                                                                                                                                                                          | X                      | 4.5%          | Free (A+,C,CA,CL, D,E,IL,J,JO,MX, SG)     | 45%   |
| 8483.90.50             | 00                   | Parts of gearing, gear boxes and other speed changers                                                                                                                                                                                                                                                                                                                          | X                      | 2.5%          | Free (A,B,C,CA, CL,E,IL,J,JO, MX,SG)      | 27.5% |
| 8483.90.70             | 00                   | Other: Parts of articles of subheading 8483.20                                                                                                                                                                                                                                                                                                                                 | X                      | 5.5%          | Free (A+,CA,CL,D, E,IL,J,JO,MX) 4.1% (SG) | 45%   |
| 8483.90.80             |                      | Other                                                                                                                                                                                                                                                                                                                                                                          |                        | 2.8%          | Free (A+,B,C,CA, CL,D,E,IL,J,JO, MX,SG)   | 45%   |
|                        | 10                   | Parts of articles of subheading 8483.60.80                                                                                                                                                                                                                                                                                                                                     | X                      |               |                                           |       |
|                        | 40                   | Parts of universal joints                                                                                                                                                                                                                                                                                                                                                      | X                      |               |                                           |       |
|                        | 80                   | Other                                                                                                                                                                                                                                                                                                                                                                          | X                      |               |                                           |       |
| 8484                   |                      | Gaskets and similar joints of metal sheeting combined with other material or of two or more layers of metal; sets or assortments of gaskets and similar joints, dissimilar in composition, put up in pouches, envelopes or similar packings; mechanical seals:                                                                                                                 |                        |               |                                           |       |
| 8484.10.00             | 00                   | Gaskets and similar joints of metal sheeting combined with other material or of two or more layers of metal                                                                                                                                                                                                                                                                    | X                      | 2.5%          | Free (A,B,C,CA, CL,E,IL,J,JO, MX,SG)      | 35%   |
| 8484.20.00             | 00                   | Mechanical seals                                                                                                                                                                                                                                                                                                                                                               | No.                    | 3.9%          | Free (A,B,CA,CL, E,IL,J,JO,MX, SG)        | 45%   |
| 8484.90.00             | 00                   | Other                                                                                                                                                                                                                                                                                                                                                                          | No.                    | 2.5%          | Free (A,B,C,CA, CL,E,IL,J,JO, MX,SG)      | 35%   |
| 8485                   |                      | Machinery parts, not containing electrical connectors, insulators, coils, contacts or other electrical features, and not specified or included elsewhere in this chapter:                                                                                                                                                                                                      |                        |               |                                           |       |
| 8485.10.00             |                      | Ships' or boats' propellers and blades therefor                                                                                                                                                                                                                                                                                                                                |                        | Free          |                                           | 30%   |
|                        | 40                   | Of copper                                                                                                                                                                                                                                                                                                                                                                      | No.                    |               |                                           |       |
|                        | 80                   | Other                                                                                                                                                                                                                                                                                                                                                                          | X                      |               |                                           |       |
| 8485.90.00             |                      | Other                                                                                                                                                                                                                                                                                                                                                                          |                        | 3.9%          | Free (A,B,CA,CL, E,IL,J,JO,MX, SG)        | 45%   |
|                        | 40                   | Oil seals, other than those of chapter 40                                                                                                                                                                                                                                                                                                                                      | kg                     |               |                                           |       |
|                        | 80                   | Other                                                                                                                                                                                                                                                                                                                                                                          | kg                     |               |                                           |       |