

**16** DETAILED COST OF MATERIALS, PARTS, AND SUPPLIES

**General** - The materials, parts, and supplies listed below are those commonly consumed in the manufacture, processing, or assembly of the products listed in **2**. Please review the entire list and report separately each item consumed. Leave blank if you do not consume the item. If you use materials, parts, and supplies that are not listed, describe and report them in the "Cost of all other materials . . ." at the end of this section. If you consumed less than \$25,000 of a listed material, include the value with "Cost of all other materials . . ." Census material code 009700 99 8.

Report materials, parts, and supplies purchased, transferred from other plants of your company, or withdrawn from inventory.

If quantities are requested, please use the unit of measure specified.

If the information as requested cannot be taken directly from your book records, REASONABLE ESTIMATES ARE ACCEPTABLE.

**Valuation of Materials Consumed** - The value of the materials, etc., consumed should be based on the delivered cost; i.e., the amount paid or payable after discounts and including freight and other direct charges incurred in acquiring the materials.

Materials received from other plants within your company should be reported at their full economic value (the value assigned by the shipping plant, plus the cost of freight and other handling charges).

If purchases or transfers do not differ significantly from the amount actually put into production, you may report the cost of purchases or transfers. However, if consumption differs significantly from the amounts purchased or transferred, these amounts should be adjusted for changes in the materials and supplies inventories by adding the beginning inventory to the amount purchased or transferred and subtracting ending inventory.

**Contract Work** - Include all materials consumed those you purchased for use by others making products for you under contract. Amounts paid to the companies doing the contract work should be reported in **15**, line A5, and should include freight in and out. On the other hand, materials owned by others but used at this establishment in making products for others under contract or on commission should be excluded.

**Resales** - Cost for products bought and sold or transferred from other establishments of your company and sold without further manufacture, processing, or assembly should be reported in **15**, line A2, not in **16**. The value of these products shipped by this establishment should be reported in **2** under Census product code 000999 8900 6, "Resales."

INFORMATION COPY  
 DO NOT USE TO REPORT

Line No.	Materials, parts, and supplies	Census material code	Consumption of purchased materials and of materials received from other establishments of your company		
			Cost, including delivery cost (freight-in)		
			\$ Bil.	Mil.	Thou.
0634		0630	0631		
<b>1</b>	Fabricated metal products (excluding forgings)				
	Bolts, nuts, screws, rivets, washers, and screw machine products . . . . .	332722 03 2			
<b>2</b>	Other fabricated metal products . . . . .	332000 95 9			
<b>3</b>	Forgings . . . . .	332100 01 5			
	Castings (rough and semifinished)				
<b>4</b>	Iron and steel . . . . .	331510 01 6			
<b>5</b>	Copper and copper-base alloy . . . . .	331525 00 6			
<b>6</b>	Other nonferrous . . . . .	331520 13 0			

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If not shown, please enter your 11-digit Census File Number (CFN) from the mailing address.

**16** DETAILED COST OF MATERIALS, PARTS, AND SUPPLIES - Continued

Line No.	Materials, parts, and supplies	Census material code	Consumption of purchased materials and of materials received from other establishments of your company		
			Cost, including delivery cost (freight-in)		
			\$ Bil.	Mil.	Thou.
0634		0630	0631		
	Shapes and forms (excluding castings, forgings, and fabricated metal products)				
	Steel				
<b>7</b>	Bars, bar shapes, and plate . . . . .	331200 07 1			
<b>8</b>	Sheet and strip . . . . .	331200 17 0			
<b>9</b>	Wire and wire products . . . . .	331200 25 3			
<b>10</b>	All other steel shapes and forms . . . . .	331200 15 4			
<b>11</b>	Copper and copper-base alloy . . . . .	331421 11 5			
<b>12</b>	Aluminum and aluminum-base alloy . . . . .	331000 39 8			
<b>13</b>	All other nonferrous shapes and forms . . . . .	331000 83 6			
<b>14</b>	Insulated copper wire and cable (excluding magnet wire) . . . . .	331000 A3 3			
	Electric motors and generators				
	Fractional horsepower electric motors (less than 1 hp)				
<b>15</b>	Timing motors, synchronous and subsynchronous . . . . .	335312 09 6			
<b>16</b>	Other (excluding timing motors) . . . . .	335312 23 7			
<b>17</b>	Integral horsepower motors and generators (1 hp or more) . . . . .	335312 21 1			
<b>18</b>	Electrical transmission, distribution, and control equipment . . . . .	001900 B1 6			
<b>19</b>	Electrical industrial capacitors, resistors, rheostats, and coil windings . . . . .	335000 07 1			
<b>20</b>	Pressure gauges . . . . .	334513 00 9			
	Bearings (mounted or unmounted)				
<b>21</b>	Ball . . . . .	332991 05 8			
<b>22</b>	Roller . . . . .	332991 03 3			
<b>23</b>	Paperboard containers, boxes, and corrugated paperboard . . . . .	322210 01 4			

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**16** DETAILED COST OF MATERIALS, PARTS, AND SUPPLIES - Continued

Line No.	Materials, parts, and supplies	Census material code	Consumption of purchased materials and of materials received from other establishments of your company		
			Cost, including delivery cost (freight-in)		
			\$ Bil.	Mil.	Thou.
0634		0630	0631		
<b>24</b>	Industrial robots purchased for fabrication with welding equipment . . . . .	333999 03 5			
<b>25</b>	Cost of all other materials and components, parts, containers, and supplies consumed ( <i>Specify the principal materials, etc., included in this value.</i> ) ↘	009700 99 8			
<b>26</b>	<b>TOTAL</b> ( <i>Should equal total reported in 16, line A1</i> ) . . . . .	771000 00 7			

**17-21** Not Applicable.

**22** DETAIL OF SALES, SHIPMENTS, RECEIPTS, OR REVENUE

**General** - The manufactured products and services listed below are generally made in your industry. If you make products that are not listed, describe and report them in the "All other products made in this establishment" section at the end of 22. PLEASE DO NOT COMBINE PRODUCT LINES.

If quantities are requested, please use the unit of measure specified.

If the information as requested cannot be taken directly from your book records, REASONABLE ESTIMATES ARE ACCEPTABLE.

**Valuation of Products** - Report the value of the products shipped and services performed at the net selling value, f.o.b. plant to the customer; i.e., after discounts and allowances, and exclusive of freight charges and excise taxes.

If you transfer products to other establishments within your company, you should assign the full economic value to the transferred products; i.e., include all direct costs of production and a reasonable proportion of all other costs and profits.

**Contract Work** - Report PRODUCTS MADE BY OTHERS FOR YOU FROM YOUR MATERIALS on the specific lines as if they were made in this establishment. On the other hand, do not report on the specific product lines PRODUCTS THAT YOU MADE FROM MATERIALS OWNED BY OTHERS. Report only the amount that you received for "commission or contract receipts" under Census code 000930 0000 8.

**Resales** - Do not report on the specific product lines those PRODUCTS BOUGHT AND SOLD OR TRANSFERRED FROM OTHER ESTABLISHMENTS OF YOUR COMPANY AND SOLD WITHOUT FURTHER MANUFACTURE. Report only a value under Census code 000999 8900 6, "Resales."

Line No.	Products and services	Census product code	Unit of measure for quantities	Products shipped and other receipts		
				Quantity	Value, f.o.b. plant	
					\$ Bil.	Mil.
0734		0730	0736	0732	0731	
<b>1</b>	Arc welding machines, components, and accessories (except electrodes), excluding stud welding equipment ( <i>Report electrodes on lines 12 - 22 and stud welding equipment on line 36.</i> ) Direct current arc welders Rectifier-type, fully or partly automatic . . .	333992 1106 0	number			
<b>2</b>	Rectifier-type, not fully or partly automatic . .	333992 1111 0				
<b>3</b>	Complete units . . . . .	333992 1156 5				
<b>4</b>	Direct current arc welding generators . . . . .	333992 1101 1				

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22 DETAIL OF SALES, SHIPMENTS, RECEIPTS, OR REVENUE - Continued

Line No.	Products and services	Census product code	Unit of measure for quantities	Products shipped and other receipts				
				Quantity	Value, f.o.b. plant			
					\$ Bil.	Mil.	Thou.	
0734		0730	0736	0732	0731			
	Arc welding machines, components, and accessories (except electrodes), excluding stud welding equipment (Report electrodes on lines 12 - 22 and stud welding equipment on line 36.) - Continued		number					
5	Alternating current transformer arc welders . . .	333992 1151 6						
6	Automatic and semiautomatic wire drive apparatus . . . . .	333992 1126 8						
7	Automatic and semiautomatic welding torches, guns and cables . . . . .	333992 1136 7						
8	Special purpose automatic welding apparatus . . . . .	333992 1131 8						
9	Circuit welding accessories (including electrode holders, ground clamps, cable connectors, cables sold separately, etc.) . . . . .	333992 1141 7						
10	Positioning and manipulating equipment (including turn rolls, head and tail stock, weld head manipulators, seamers, etc.) . . . . .	333992 1146 6						
11	All other components and accessories, excluding welding rods (Specify kind.) ↘	333992 1161 5						
12	Arc welding electrodes, metal Stick electrodes (including solid, cored, covered, and bare electrodes) Hard facing . . . . .	333992 3121 7	1000 lb					
13	Other than hard facing Mild steel . . . . .	333992 3101 9						
14	Low alloy steel . . . . .	333992 3106 8						
15	Stainless steel (chromium, 4 percent or more) . . . . .	333992 3111 8						
16	Nonferrous . . . . .	333992 3116 7						
17	Coiled and spooled continuous wire electrodes for automatic arc welding and inert gas shielded arc welding (including electrodes for submerged arc welding, bare wire) Hard facing . . . . .	333992 3146 4						
18	Other than hard facing solid wire Mild steel . . . . .	333992 3126 6						
19	Low alloy steel . . . . .	333992 3131 6						

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22 DETAIL OF SALES, SHIPMENTS, RECEIPTS, OR REVENUE - Continued							
Line No.	Products and services	Census product code	Unit of measure for quantities	Products shipped and other receipts			
				Quantity	Value, f.o.b. plant		
					\$ Bil.	Mil.	Thou.
0734		0730	0736	0732	0731		
	Arc welding electrodes, metal - Continued						
	Coiled and spooled continuous wire electrodes for automatic arc welding and inert gas shielded arc welding (including electrodes for submerged arc welding, bare wire) - Continued						
	Other than hard facing solid wire - Continued						
20	Stainless steel (chromium, 4 percent or more) . . . . .	333992 3136 5	1000 lb				
21	Cored wire . . . . .	333992 3151 4					
22	Nonferrous . . . . .	333992 3141 5					
	Resistance welders						
	Spot and projection						
23	Single electrode . . . . .	333992 7101 5	number				
24	Multielectrode . . . . .	333992 7106 4					
25	Seam . . . . .	333992 7111 4					
	All other resistance welders (including flash, upset, and butt welders) (Specify kind.) ↘						
26		333992 7116 3					
	Resistance welder components and accessories						
27	Transformers (sold separately) . . . . .	333992 7121 3	number				
28	Electrodes . . . . .	333992 7126 2	1000 lb				
	All other components and accessories, nec (including electrode holders) (Specify kind.) ↘						
29		333992 7131 2					
	Gas welding and cutting equipment (except plasma) (Report plasma welding and cutting equipment on lines 38 and 39.)						
30	Torches (including gas air torches) . . . . .	333992 9101 3	number				
31	Cutting machines and carriages, stationary and portable . . . . .	333992 9106 2					
	All other gas welding and cutting equipment, excluding pressure containers (Specify kind.) ↘						
32		333992 9111 2					

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22 DETAIL OF SALES, SHIPMENTS, RECEIPTS, OR REVENUE - Continued

Line No.	Products and services	Census product code	Unit of measure for quantities	Products shipped and other receipts				
				Quantity	Value, f.o.b. plant			
					\$ Bil.	Mil.	Thou.	
0734		0730	0736	0732	0731			
33	Gas welding and cutting equipment parts, attachments, and accessories, except plasma (sold separately) (Report plasma welding and cutting equipment on lines 38 and 39.)							
	Tips . . . . .	333992 9116 1						
34	Pressure regulators . . . . .	333992 9121 1	number					
35	All other parts, accessories, attachments, adaptors, etc. (Specify kind.) ↴  	333992 9126 0						
36	Other welding equipment (excluding arc, resistance, and gas)		↑ number ↓					
	Stud welding equipment . . . . .	333992 A101 1						
37	Industrial welding laser systems and equipment	333992 A116 9						
38	Plasma welding and cutting equipment							
	Fully or partly automatic . . . . .	333992 A121 9						
39	Not fully or partly automatic . . . . .	333992 A126 8						
40	Soldering equipment (except hand and ultrasonic) . . . . .	333992 A141 7						
41	All other welding equipment, nec (including friction, electric, and magnetic pulse welding machines) (Specify kind.) ↴  	333992 A131 8						
42	Components and accessories for other welding equipment . . . . .	333992 A146 6						
43	Receipts for machine shop job work and job order repairs . . . . .	332710 0100 1						

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22 DETAIL OF SALES, SHIPMENTS, RECEIPTS, OR REVENUE - Continued							
Line No.	Products and services	Census product code	Unit of measure for quantities	Products shipped and other receipts			
				Quantity	Value, f.o.b. plant		
					\$ Bil.	Mil.	Thou.
0734		0730	0736	0732	0731		
	All other products made in this establishment - Specify and report each product with sales value of \$50,000 or more that cannot be assigned to one of the "listed products and services". For all remaining products, write "Other" and report a single total value.						
44		18					
45		26					
46		34					
47		42					
48		59					
49		67					
	Contract work - Receipts for work done for others on their materials (Specify products worked on and kind of work.) ↴						
50		000930 0000 8					
	Miscellaneous receipts						
51	Receipts for research and developmental work	000999 8041 9					
52	Receipts for repair work . . . . .	000999 8061 7					
53	Other miscellaneous receipts (including sale of scrap, etc.) . . . . .	000999 8098 9					
	Resales - Sales of products bought and sold without further manufacture, processing, or assembly (The cost of such items should be reported in 16, line A2.) . . . . .						
54		000999 8900 6					
55	<b>TOTAL</b> (Should equal 4, line A) . . . . .	770000 0000 8					

23-27 Not Applicable.



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**28 ESTABLISHMENT ACTIVITIES**

**A.** Indicate activities that were performed by this establishment or were performed for this establishment by another company during 2002.  
(Mark "X" ALL that apply.)

This activity was performed -			
By this establishment	By another establishment of this company	By another company	Not at all
0921 <input type="checkbox"/>	8071 <input type="checkbox"/>	0941 <input type="checkbox"/>	0961 <input type="checkbox"/>
<b>1. Product design/engineering . . . . .</b>			
<b>2. Order fulfillment</b>			
0923 <input type="checkbox"/>	8072 <input type="checkbox"/>	0943 <input type="checkbox"/>	0963 <input type="checkbox"/>
<b>a. Bundling or kitting (combining multiple items into a prepackaged product) . . . . .</b>			
0924 <input type="checkbox"/>	8073 <input type="checkbox"/>	0944 <input type="checkbox"/>	0964 <input type="checkbox"/>
<b>b. Pick and pack (taking goods from inventory and packaging them to fill orders). . . . .</b>			
0925 <input type="checkbox"/>	8074 <input type="checkbox"/>	0945 <input type="checkbox"/>	0965 <input type="checkbox"/>
<b>c. Warehousing of finished products . . . . .</b>			
0926 <input type="checkbox"/>	8075 <input type="checkbox"/>	0946 <input type="checkbox"/>	0966 <input type="checkbox"/>
<b>d. Breaking bulk (reducing large shipments into smaller portions for customers) . . . . .</b>			
0927 <input type="checkbox"/>	8076 <input type="checkbox"/>	0947 <input type="checkbox"/>	0967 <input type="checkbox"/>
<b>e. Local delivery (within a city, town, or other local area, including adjoining towns and suburban areas) . . . . .</b>			
0928 <input type="checkbox"/>	8077 <input type="checkbox"/>	0948 <input type="checkbox"/>	0968 <input type="checkbox"/>
<b>f. Long distance delivery (beyond local areas and commercial zones) . . . . .</b>			
0932 <input type="checkbox"/>	8078 <input type="checkbox"/>	0952 <input type="checkbox"/>	0972 <input type="checkbox"/>
<b>g. Processing of returned merchandise . . . . .</b>			

**B.** During 2002 did this establishment:

- 1. Manage inventory owned by this establishment AND held at this location? . . . . . 0936  Yes 0937  No
- 2. Manage inventory owned by this establishment BUT held at a customer's location?. . . . . 0956  Yes 0957  No
- 3. Manage inventory owned by another company BUT held at this location? . . . . . 0976  Yes 0977  No
- 4. Manage inventory owned by another company AND held somewhere other than at this location?. . . . . 0994  Yes 0995  No
- 5. Contract with another firm for any of your production using materials owned by this location? . . . . . 8041  Yes 8042  No
- 6. Send any partially completed products to a foreign facility for processing that were then returned to this establishment for completion? . . . . . 8044  Yes 8045  No
- 7. Manufacture products for a government to their specifications? . . . . . 8047  Yes 8048  No
- 8. Manufacture products for another business to their specifications? . . . . . 8016  Yes 8017  No
- 9. Manufacture products for a final retail customer to their specifications? . . . . . 8060  Yes 8062  No



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**29 OPERATIONAL STATUS**

Activity that best describes this establishment's status at the end of 2002  
(Mark "X" only ONE box.)

0011 <input type="checkbox"/> In operation	0013 <input type="checkbox"/> Temporarily or seasonally inactive							
0012 <input type="checkbox"/> Under construction, development, or exploration	0014 <input type="checkbox"/> Ceased operation - Give date at right →	0018 <table border="1"> <tr> <th>Month</th> <th>Day</th> <th>Year</th> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>	Month	Day	Year			
Month	Day	Year						
	0015 <input type="checkbox"/> Sold or leased to another operator - Give date at right AND enter new name and mailing address below ↴	→						

0060 Name of new owner or operator	0061 Employer Identification Number		
	Enter EIN of new owner (9 digits) →		-
0062 Mailing address (number and street, P.O. Box, etc.)			
0063 City, town, village, etc.	0064 State	0065 ZIP Code	
			-

Remarks (Please use this space for any explanations that may be essential in understanding your reported data.)

**30 CERTIFICATION** - This report is substantially accurate and was prepared in accordance with the instructions.

Is the time period covered by this report a calendar year?								
0078 <input type="checkbox"/> Yes	0079 <input type="checkbox"/> No - Enter time period covered →	FROM 0070	Month	Year	TO 0071	Month	Year	
0072 Name of person to contact regarding this report				0073 Title				
Telephone 0074		Area code	Number		Extension	Fax 0075		
			-			-		
0076 Internet e-mail address					Date completed 0069	Month	Day	Year

**Thank you for completing your 2002 Economic Census form.**  
**PLEASE PHOTOCOPY THIS FORM FOR YOUR RECORDS AND RETURN THE ORIGINAL.**

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