

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Report materials, parts, and supplies purchased, transferred from other plants of your company, or withdrawn from inventory.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		
1	Pumps Hydraulic and pneumatic fluid power pumps, motors, and hydrostatic transmissions	333996 01 5			
2	Other pumps, excluding hydraulic	333911 03 0			
3	Fluid power products, (hydraulic and pneumatic), excluding pumps, motors, and hydrostatic transmissions Valves	332912 07 0			
4	Cylinders and rotary actuators	333995 01 7			
5	Hose or tube fittings and assemblies	332912 03 9			
6	Filters	333999 01 9			
7	Other fluid power products (excluding pumps, compressors, valves, cylinders and rotary actuators, hose or tube fittings and assemblies, and filters)	001900 89 3			
8	Fabricated metal products (excluding forgings) Bolts, nuts, screws, rivets, washers, and screw machine products	332722 03 2			
9	Pipe, valves, and pipe fittings (excluding plumbers')	332900 01 8			

CONTINUE WITH **16** ON PAGE 9

33314089

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		
	Fabricated metal products (excluding forgings) - Continued				
10	Other fabricated metal products (excluding electrical enclosures)	332000 77 7			
11	Other fabricated metal products (excluding fluid power products and forgings)	332000 51 2			
12	Sheet metal products (excluding stampings)	332000 A9 9			
13	Forgings	332100 01 5			
	Castings (rough and semifinished)				
14	Iron and steel	331510 01 6			
15	Nonferrous (aluminum, copper, etc.)	331520 11 4			
	Shapes and forms (excluding castings, forgings, and fabricated metal products)				
	Steel				
16	Bars, bar shapes, and plate	331200 07 1			
17	Sheet and strip	331200 17 0			
18	Structural shapes and sheet piling	331200 19 6			
19	All other steel shapes and forms	331200 91 5			
20	Aluminum and aluminum-base alloy	331000 39 8			
21	Sheet, plate, foil, and welded tubing	331315 01 0			
22	All other aluminum and aluminum-base alloy shapes and forms	331000 55 4			
23	Other nonferrous shapes and forms	331000 77 8			
	Electric motors and generators				
24	Fractional horsepower electric motors (less than 1 hp)	335312 25 2			
25	Integral horsepower motors and generators (1 hp or more)	335312 21 1			
26	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc., but excluding sheets, rods, tubes, and other shapes	325211 05 0			
27	Plastics products consumed in the form of sheets, rods, tubes, and other shapes	326100 13 8			
28	Speed changers, gears, and industrial high-speed drives	333612 00 0			

CONTINUE WITH 16 ON PAGE 10

CONTINUE ON PAGE 10

33314097

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		
29	Electrical enclosures (metal and plastics)	001900 91 9			
30	Current-carrying wiring devices	335931 01 0			
31	Paper and paperboard containers (including shipping sacks and other paper packing supplies)	322200 17 1			
32	Cost of all other materials and components, parts, containers, and supplies consumed (Specify the principal materials, etc., included in this value.) ↴	009700 99 8			
33	TOTAL (Should equal total reported in 16, line A1)	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 2. 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."

Detailed Data Reported Elsewhere - Items denoted by an asterisk (*) require totals for groups of products covered in the more frequent Current Industrial Reports (CIR). If you report on the CIR form, the sum of the detailed products should equal the total reported on this form. For corresponding survey item codes, see paragraph 4, "Comparability," of CIR Instruction Manual.

NOTE: Only totals are requested; do not duplicate detail reported on the CIR.

CONTINUE WITH 22 ON PAGE 11

33314105

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

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

Line No.	Products and services *Items correspond to products reported on Current Industrial Reports (CIR)	Census product code	Products shipped and other receipts		
			Value, f.o.b. plant		
			\$ Bil.	Mil.	Thou.
	0734	0730	0731		
1	Commercial cooking and food-warming equipment Nonelectric				
	Commercial ranges, ovens, and broilers	333319 1111 6			
2	Deep-fat fryers	333319 1116 5			
3	Other commercial cooking equipment, including griddles, toasters, coffee urns, pressure cookers-steam, etc. (Specify kind.) ↴				
		333319 1121 5			
4	Commercial food-warming equipment, including steam tables	333319 1131 4			
5	Electric				
	Commercial ranges, ovens, and broilers	333319 1241 1			
6	Commercial microwave stoves and ovens	333319 1251 0			
7	Deep-fat fryers	333319 1261 9			
8	Other commercial cooking equipment (including griddles, toasters, coffee makers, coffee urns, etc.) (Specify kind.) ↴				
		333319 1271 8			
9	Commercial food-warming equipment (including hot food server units and steam tables)	333319 1281 7			
10	Parts and accessories for commercial cooking and food-warming equipment	333319 1391 4			
11	Electronic teaching machines, teaching aids, trainers, and simulators, including kits	333319 7100 3			
12	Service industry machines and parts				
	Water heaters, including parts (except household and boilers)				
	Instantaneous	333319 9101 9			
13	All others with more than 120 gallons (454.2 liters) capacity	333319 9106 8			
14	Water softeners				
	Industrial	333319 9111 8			
15	Farm, household, and commercial	333319 9116 7			
16	Parts for water softeners (excluding tanks)	333319 9221 5			

CONTINUE WITH 22 ON PAGE 12

33314113

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

Line No.	Products and services *Items correspond to products reported on Current Industrial Reports (CIR)	Census product code	Products shipped and other receipts		
			Value, f.o.b. plant		
			\$ Bil.	Mil.	Thou.
0734		0730	0731		
	Service industry machines and parts - Continued				
	Commercial and industrial floor and carpet cleaning equipment				
17	Carnival and amusement park equipment (ferris wheels, merry-go-rounds, etc.), excluding electric equipment, and coin-operated amusement machines	333319 9301 5			
18	Sanding and scrubbing machines	333319 9326 2			
19	Carpet cleaning equipment (including sweepers, except vacuum cleaners)	333319 9331 2			
20	Other machines, including waxing and polishing machines (except vacuum cleaners)	333319 9341 1			
21	Parts and attachments	333319 9236 3			
	Dishwashing machines, commercial-type				
22	Conveyor type	333319 9146 4			
23	All other	333319 9151 4			
24	Parts for dishwashing machines	333319 9256 1			
25	Sewer, pipe, and drain cleaning equipment, including hand-operated but excluding high-pressure (more than 1,000 psi) cleaning and blasting machinery and equipment	333319 9186 0			
26	High-pressure (more than 1,000 psi) cleaning and blasting machinery and equipment, including soot removing (except foundry)	333319 9189 4			
	Other service industry machines and parts				
27	Commercial car, truck, and bus washing equipment	333319 9178 7			
28	Trash and garbage compactors	333319 9182 9			
	Sewage treatment equipment				
29	Distilling or rectifying equipment	333319 9161 3			
30	Filtering or purifying apparatus	333319 9166 2			
31	Centrifuges	333319 9171 2			
32	Other sewage treatment equipment	333319 9174 6			
33	Electric hand-drying apparatus	333319 9194 4			
34	Other service industry equipment	333319 9196 9			
35	Parts for other service industry machines	333319 9299 1			

CONTINUE WITH **22** ON PAGE 13

33314121

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

Line No.	Products and services *Items correspond to products reported on Current Industrial Reports (CIR)	Census product code	Products shipped and other receipts		
			Value, f.o.b. plant		
			\$ Bil.	Mil.	Thou.
0734		0730	0731		
36	Commercial and industrial vacuum cleaners Portable Complete machine	333319 3101 5			
37	Parts and attachments	333319 3111 4			
38	Central system, including parts and attachments	333319 3221 1			
39	All other industrial machinery manufacturing, including automotive maintenance equipment, except handtools, nec Automotive frame and body alignment equipment, except handtools . .	333319 5101 3			
40	Automotive wheel alignment equipment, except handtools	333319 5106 2			
41	Automotive wheel balancing equipment, except handtools	333319 5111 2			
42	Automotive tire and wheel mounting equipment, except handtools	333319 5116 1			
43	Automotive brake service equipment, except handtools	333319 5121 1			
44	All other automotive maintenance equipment, except handtools	333319 5126 0			
45	Parts and attachments for automotive maintenance equipment, except handtools (sold separately)	333319 5231 8			
46	Barber and beauty shop furniture and equipment, excluding barber and beauty chairs	339999 K106 9			
47	Restaurant, cafeteria, and bar furniture and fixtures, nsk (including fabricated food service and processing equipment counters, dishtables, tableware, dispensers, tables, table tops and bases, tray stands, serving tables, bus carts, and food trucks), except cooking, warming, refrigeration, etc., equipment	337127 7YVW 0			
48	Industrial pumps (except hydraulic fluid power pumps, automotive circulating pumps, and measuring and dispensing pumps) (Corresponds to the value of shipments on CIR Form MA333P, Pumps and Compressors, for 2002, item codes 1098 - 1800)*	333911 1440 3			
49	Specific-purpose industrial controls (Corresponds to the value of shipments reported on CIR Form MA335A, Switchgear, Switchboard Apparatus, Relays, and Industrial Controls, for 2002, item codes 6101 - 6355)*	335314 3100 6			
50	Relays and industrial controls General-purpose industrial controls (Corresponds to the value of shipments reported on CIR Form MA335A, Switchgear, Switchboard Apparatus, Relays, and Industrial Controls, for 2002, item codes 6402 - 6509.)*	335314 5100 4			
51	Parts for industrial controls and motor-control accessories (Corresponds to the value of shipments reported on CIR Form MA335A, Switchgear, Switchboard Apparatus, Relays, and Industrial Controls, for 2002, item codes 6703 and 6705)*	335314 7100 2			

CONTINUE WITH **22** ON PAGE 14

33314139

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

Line No.	Products and services *Items correspond to products reported on Current Industrial Reports (CIR)	Census product code	Products shipped and other receipts		
			Value, f.o.b. plant		
			\$ Bil.	Mil.	Thou.
0734		0730	0731		
52	All other products made in this establishment - <i>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.</i>	18			
53		26			
54		34			
55		42			
56		59			
57		67			
58	Contract work - Receipts for work done for others on their materials (<i>Specify products worked on and kind of work.</i>) ↴	000930 0000 8			
59	Miscellaneous receipts (including receipts for repair work, scrap, refuse, etc.)	000999 8000 5			
60	Resales - Sales of products bought and sold without further manufacture, processing, or assembly (The cost of such items should be reported in 15, line A2.)	000999 8900 6			
61	TOTAL (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"/>
1. Product design/engineering			
2. Order fulfillment			
0923 <input type="checkbox"/>	8072 <input type="checkbox"/>	0943 <input type="checkbox"/>	0963 <input type="checkbox"/>
a. Bundling or kitting (combining multiple items into a prepackaged product)			
0924 <input type="checkbox"/>	8073 <input type="checkbox"/>	0944 <input type="checkbox"/>	0964 <input type="checkbox"/>
b. Pick and pack (taking goods from inventory and packaging them to fill orders).			
0925 <input type="checkbox"/>	8074 <input type="checkbox"/>	0945 <input type="checkbox"/>	0965 <input type="checkbox"/>
c. Warehousing of finished products			
0926 <input type="checkbox"/>	8075 <input type="checkbox"/>	0946 <input type="checkbox"/>	0966 <input type="checkbox"/>
d. Breaking bulk (reducing large shipments into smaller portions for customers)			
0927 <input type="checkbox"/>	8076 <input type="checkbox"/>	0947 <input type="checkbox"/>	0967 <input type="checkbox"/>
e. Local delivery (within a city, town, or other local area, including adjoining towns and suburban areas)			
0928 <input type="checkbox"/>	8077 <input type="checkbox"/>	0948 <input type="checkbox"/>	0968 <input type="checkbox"/>
f. Long distance delivery (beyond local areas and commercial zones)			
0932 <input type="checkbox"/>	8078 <input type="checkbox"/>	0952 <input type="checkbox"/>	0972 <input type="checkbox"/>
g. Processing of returned merchandise			

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



33314154

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 Yes 0079 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	Area code	Number	
			-					-

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.

33314162