

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Report materials, parts, and supplies purchased, transferred from other plants of your company, or withdrawn from inventory.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	Fluid power pumps purchased for incorporation into products of this establishment	333996 03 1			
2	Fabricated metal products (excluding forgings)				
	Bolts, nuts, screws, rivets, washers, and screw machine products	332722 03 2			
3	Pipes, valves, and pipe fittings	332919 01 8			
4	Other fabricated metal products	332000 75 1			
5	Forgings	332100 01 5			
6	Castings (rough and semifinished)				
	Iron and steel	331510 01 6			
7	Aluminum and aluminum-base alloy	331520 05 6			
8	Other nonferrous	331520 03 1			

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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		
9	Shapes and forms (excluding castings, forgings, and fabricated metal products) Steel				
	Bars, bar shapes, and plates	331200 07 1			
10	Sheet and strip	331200 17 0			
11	Tubing	331210 00 5			
12	All other steel shapes and forms	331200 61 8			
	Aluminum and aluminum-base alloy				
13	Extruded shapes (including extruded rod, bar, pipe, tube, etc.)	331316 00 0			
14	All other aluminum and aluminum-base alloy	331000 47 1			
15	Other nonferrous shapes and forms	331000 77 8			
16	Metal powders	331000 AA 7			
17	Lubricating and cutting oils	324100 05 6			
18	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied products	325510 03 0			
19	Electric motors and generators	335312 01 3			
	Bearings (mounted or unmounted)				
20	Ball	332991 05 8			
21	Roller	332991 03 3			
22	Plain bearings and bushings	333613 01 6			
23	Speed changers, gears, and industrial high-speed drives	333612 00 0			
24	Gaskets and packing and sealing devices (all types)	339991 03 6			

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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		
25	Cutting tools for machine tools	333515 03 9			
26	Cost of all other materials and components, parts, containers, and supplies consumed (Specify the principal materials, etc., included in this value.) 7	009700 99 8			
27	TOTAL (Should equal total reported in 15, 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.

The value of pumps and motors shipped as hydrostatic transmissions should be reported separately in the pump and motor categories shown on lines 5 through 9.

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.

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

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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	Fluid power cylinders and actuators Nonaerospace Hydraulic types, linear and rotary (Corresponds to value of shipments reported on CIR Form MA333N, Fluid Power Products (Including Aerospace), for 2002)*	333995 1100 6			
2	Pneumatic types, linear and rotary (Corresponds to value of shipments reported on CIR Form MA333N, Fluid Power Products (Including Aerospace), for 2002)*	333995 3100 4			
3	Aerospace type, hydraulic and pneumatic (Corresponds to value of shipments reported on CIR Form MA333N, Fluid Power Products (Including Aerospace), for 2002)*	333995 7100 0			
4	Parts for fluid power cylinders and actuators, hydraulic and pneumatic, including accumulators, cushions, nonvehicular shock absorbers, and related items (Corresponds to value of shipments reported on CIR Form MA333N, Fluid Power Products (Including Aerospace), for 2002)*	333995 5100 2			
5	Fluid power pumps, motors, and hydrostatic transmission components (See instructions.) Nonaerospace Pumps Reciprocating types (Corresponds to value of shipments reported on CIR Form MA333N, Fluid Power Products (Including Aerospace), for 2002)*	333996 1100 4			
6	Rotary and other types, nec (Corresponds to value of shipments reported on CIR Form MA333N, Fluid Power Products (Including Aerospace), for 2002)*	333996 3100 2			
7	Motors (Corresponds to value of shipments reported on CIR Form MA333N, Fluid Power Products (Including Aerospace), for 2002)*	333996 5100 0			
8	Aerospace pumps and motors (Corresponds to value of shipments reported on CIR Form MA333N, Fluid Power Products (Including Aerospace), for 2002)*	333996 7100 8			
9	Parts for pumps and motors (Corresponds to value of shipments reported on CIR Form MA333N, Fluid Power Products (Including Aerospace), for 2002)*	333996 9100 6			
10	Industrial pumps, except fluid power (Corresponds to value of shipments reported on CIR Form MA333P, Pumps and Compressors, for 2002)*	333911 1440 3			
11	Other pumps, nec (Specify kind.) ↴	333911 1590 5			

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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		
12	Fluid power valves and hose fittings Aerospace Valves Hydraulic (Corresponds to value of shipments reported on CIR Form MA333N, Fluid Power Products (Including Aerospace), for 2002)*	332912 1100 2			
13	Pneumatic (Corresponds to value of shipments reported on CIR Form MA333N, Fluid Power Products (Including Aerospace), for 2002)*	332912 3100 0			
14	Hydraulic and pneumatic hose or tube end fittings and assemblies (Corresponds to value of shipments reported on CIR Form MA333N, Fluid Power Products (Including Aerospace), for 2002)*	332912 F100 7			
15	Nonaerospace Valves Hydraulic Directional control (Corresponds to value of shipments reported on CIR Form MA333N, Fluid Power Products (Including Aerospace), for 2002)*	332912 5100 8			
16	Other (Corresponds to value of shipments reported on CIR Form MA333N, Fluid Power Products (Including Aerospace), for 2002)*	332912 7100 6			
17	Pneumatic Directional control (Corresponds to value of shipments reported on CIR Form MA333N, Fluid Power Products (Including Aerospace), for 2002)*	332912 9100 4			
18	Other (Corresponds to value of shipments reported on CIR Form MA333N, Fluid Power Products (Including Aerospace), for 2002)*	332912 B100 1			
19	Flared (metal) fittings and couplings for, and assemblies of, tubing (including assemblies that combine tubing and hose) used in fluid power transfer systems (Corresponds to value of shipments reported on CIR Form MA333N, Fluid Power Products (Including Aerospace), for 2002)*	332912 H100 5			
20	Flareless fittings and couplings (including nonmetal fittings) used in fluid power transfer systems (Corresponds to value of shipments reported on CIR Form MA333N, Fluid Power Products (Including Aerospace), for 2002)*	332912 J100 3			
21	Hydraulic and pneumatic fittings and couplings for hose (Corresponds to value of shipments reported on CIR Form MA333N, Fluid Power Products (Including Aerospace), for 2002)*	332912 L100 1			
22	Hydraulic and pneumatic assemblies of hose (Corresponds to value of shipments reported on CIR Form MA333N, Fluid Power Products (Including Aerospace), for 2002)*	332912 N100 9			
23	Parts for fluid power valves (Corresponds to value of shipments reported on CIR Form MA333N, Fluid Power Products (Including Aerospace), for 2002)*	332912 D100 9			

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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			
24	Filters for fluid power systems (hydraulic and pneumatic) Nonaerospace Hydraulic (Corresponds to value of shipments reported on CIR Form MA333N, Fluid Power Products (Including Aerospace), for 2002)* . . .	333999 3100 6				
25	Pneumatic (Corresponds to value of shipments reported on CIR Form MA333N, Fluid Power Products (Including Aerospace), for 2002)* . . .	333999 4100 5				
26	Aerospace (Corresponds to value of shipments reported on CIR Form MA333N, Fluid Power Products (Including Aerospace), for 2002)*	333999 6100 3				
27	Receipts for machine shop job work and job order repairs	332710 0100 1				
28	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				
29		26				
30		34				
31		42				
32		59				
33		67				
34	Contract work - Receipts for work done for others on their materials (<i>Specify products worked on and kind of work.</i>) ↘	000930 0000 8				
35	Miscellaneous receipts Receipts for repair work	000999 8061 7				
36	Other miscellaneous receipts	000999 8098 9				
37	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				
38	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 <input type="checkbox"/> | Yes | 0937 <input type="checkbox"/> | No |
| 2. Manage inventory owned by this establishment BUT held at a customer's location? | 0956 <input type="checkbox"/> | Yes | 0957 <input type="checkbox"/> | No |
| 3. Manage inventory owned by another company BUT held at this location? | 0976 <input type="checkbox"/> | Yes | 0977 <input type="checkbox"/> | No |
| 4. Manage inventory owned by another company AND held somewhere other than at this location? | 0994 <input type="checkbox"/> | Yes | 0995 <input type="checkbox"/> | No |
| 5. Contract with another firm for any of your production using materials owned by this location? | 8041 <input type="checkbox"/> | Yes | 8042 <input type="checkbox"/> | No |
| 6. Send any partially completed products to a foreign facility for processing that were then returned to this establishment for completion? | 8044 <input type="checkbox"/> | Yes | 8045 <input type="checkbox"/> | No |
| 7. Manufacture products for a government to their specifications? | 8047 <input type="checkbox"/> | Yes | 8048 <input type="checkbox"/> | No |
| 8. Manufacture products for another business to their specifications? | 8016 <input type="checkbox"/> | Yes | 8017 <input type="checkbox"/> | No |
| 9. Manufacture products for a final retail customer to their specifications? | 8060 <input type="checkbox"/> | Yes | 8062 <input type="checkbox"/> | 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 In operation
- 0012 Under construction, development, or exploration
- 0013 Temporarily or seasonally inactive
- 0014 Ceased operation - Give date at right →
- 0015 Sold or leased to another operator - Give date at right AND enter new name and mailing address below ↴

0018	Month	Day	Year

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	Month	Year	TO	Month	Year
0070			0071		

0072 Name of person to contact regarding this report		0073 Title			

Telephone	Area code	Number		Extension	Fax	Area code	Number	
0074		-			0075		-	

0076 Internet e-mail address			Date completed	Month	Day	Year
			0069			

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

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