

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Report materials, parts, and supplies purchased, transferred from other plants of your company, or withdrawn from inventory.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

Produced and Consumed - Forgings, foundries, and screw machine products - Report the quantities produced and used in manufacturing other products made in this establishment in **25**. Note that the materials used to produce these items should be reported in **16**.

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Line No.	Materials, parts, and supplies	Census material code	Unit of measure for quantities	Consumption of purchased materials and of materials received from other establishments of your company				
				Quantity	Cost, including delivery cost (freight-in)			
					\$ Bil.	Mil.	Thou.	
0634		0630	0636	0632	0631			
1	Fabricated metal products (excluding forgings) Bolts, nuts, screws, rivets, washers, and screw machine products	332722 03 2						
2	Other fabricated metal products	332000 95 9						
3	Castings (rough and semifinished) Iron and steel	331510 01 6						
4	Nonferrous (aluminum, copper, etc.)	331520 11 4						
5	Forgings	332100 01 5						
6	Shapes and forms (excluding castings, forgings, and fabricated metal products) Steel Bars and bar shapes	331200 71 7						
7	Sheet and strip	331200 17 0						
8	Plate	331200 79 0						

CONTINUE WITH **16** ON PAGE 9

33204082

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	Unit of measure for quantities	Consumption of purchased materials and of materials received from other establishments of your company				
				Quantity	Cost, including delivery cost (freight-in)			
					\$ Bil.	Mil.	Thou.	
0634		0630	0636	0632	0631			
	Shapes and forms (excluding castings, forgings, and fabricated metal products) - Continued Steel - Continued							
9	Wire and wire products	331200 25 3						
10	Tinplate, tin free steel, terneplate, and blackplate	331200 13 9	short tons					
11	All other steel shapes and forms	331200 27 9						
12	Copper and copper-base alloy	331421 11 5						
	Aluminum and aluminum-base alloy							
13	Sheet, plate, foil, and welded tubing	331315 01 0						
14	Extruded shapes (including extruded rod, bar, pipe, tube, etc.)	331316 00 0	1000 lb					
15	All other aluminum and aluminum-base alloy shapes and forms	331000 49 7						
16	All other nonferrous shapes and forms	331000 83 6						
	Chemicals and allied products							
17	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc., but excluding sheets, rods, tubes, and shapes	325211 05 0						
18	Paints, varnishes, lacquers, shellacs, japans, enamels, and allied products	325510 03 0						
19	Other chemicals and allied products	325000 51 1						
20	Plastics products consumed in the form of sheets, rods, tubes, and other shapes	326100 13 8						
	Paper and paperboard products							
21	Paperboard boxes, containers, and corrugated paperboard	322210 01 4						
22	Other paper and paperboard products	322000 07 6						

CONTINUE WITH 16 ON PAGE 10

33204090

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

Line No.	Materials, parts, and supplies	Census material code	Unit of measure for quantities	Consumption of purchased materials and of materials received from other establishments of your company			
				Quantity	Cost, including delivery cost (freight-in)		
					\$ Bil.	Mil.	Thou.
0634		0630	0636	0632	0631		
23	Special dies, tools, die sets, jigs, and fixtures (excluding cutting tools for machine tools)	335100 00 4					
24	Cost of all other materials and components, parts, containers, and supplies consumed (Specify the principal materials, etc., included in this value.) ↴	009700 99 8					
25	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."

Line No.	Products and services	Census product code	Products shipped and other receipts		
			Value, f.o.b. plant		
			\$ Bil.	Mil.	Thou.
0734		0730	0731		
1	Metal commercial and home-canning crowns and closures				
2	Metal and metal-composite closures, including home-canning closures	332115 0101 1			
3	Metal crowns (including soft drinks, beer, and all other)	332115 0103 7			
3	All other closures (including roll-ons, soft drinks, beer, and all other)	332115 0106 0			

CONTINUE WITH **22** ON PAGE 11

33204108

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

Line No.	Products and services	Census product code	Products shipped and other receipts			
			Value, f.o.b. plant			
			\$ Bil.	Mil.	Thou.	
	0734	0730	0731			
	Job stampings (except automotive)					
4	Recreational vehicle stampings (motor homes, travel trailers, etc.)	332116 1101 8				
5	Motor and generator stampings	332116 1205 7				
6	Aviation stampings	332116 1311 3				
7	Agricultural equipment stampings (including tractor)	332116 1115 8				
8	Computer stampings	332116 1421 0				
9	Electrical appliance stampings (except refrigeration and laundry equipment)	332116 1525 8				
10	Furniture stampings	332116 1331 1				
11	Office machine stampings (excluding computer)	332116 1441 8				
12	Radio and phonograph stampings	332116 1352 7				
13	Television stampings	332116 1354 3				
14	Refrigeration stampings (residential, commercial, and industrial)	332116 1561 3				
15	Stove, heater, and air-conditioner stampings (residential, commercial, and industrial)	332116 1571 2				
16	Laundry equipment stampings (residential, commercial, and industrial)	332116 1584 5				
17	Other industrial equipment stampings	332116 1388 1				
18	Other job stampings (<i>Specify kind.</i>) ↴ 	332116 1398 0				
19	Stamped and spun utensils, cooking and kitchen Aluminum Top of range household utensils (those items generally used directly on top of source of heat, including pressure cookers)	332214 1111 0				
20	Camping and outdoor cooking equipment	332214 1231 6				
21	Bakeware, pantryware, and miscellaneous household utensils	332214 1221 7				
22	Other (including commercial and hospital)	332214 1241 5				

CONTINUE WITH **22** ON PAGE 12

33204116

22 DETAIL OF SALES, SHIPMENTS, RECEIPTS, OR REVENUE - Continued					
Line No.	Products and services	Census product code	Products shipped and other receipts		
			Value, f.o.b. plant		
			\$ Bil.	Mil.	Thou.
	0734	0730	0731		
	Stamped and spun utensils, cooking and kitchen - Continued				
23	Stainless steel Top of range household utensils (those items generally used directly on top of source of heat)	332214 3101 9			
24	Other (including commercial, hospital, and outdoor cooking equipment)	332214 3221 5			
25	Tinware (including household, commercial, hospital, and outdoor cooking equipment)	332214 3231 4			
26	Other stamped and spun cooking and kitchen utensils (including copper, vitreous enamel)	332214 3241 3			
27	Metal spinning products (excluding cooking and kitchen utensils) (<i>Specify kind.</i>) ↘ 	332116 3100 8			
28	Pails, ash cans, garbage cans, tubs, etc., (excluding shipping containers) Steel	332116 5201 2			
29	Other metal	332116 5202 0			
30	Stamped and pressed metal mailboxes (commercial and multiple unit residential)	332116 5203 8			
31	Stamped and pressed metal toolboxes	332116 5204 6			
32	Other stamped and pressed metal end products (including vitreous enameled products) Vitreous (porcelain) enameled products (excluding cooking and kitchen utensils) Architectural parts (exterior and interior) (including store front and curtain wall components)	332116 5101 4			
33	Other products (including refrigerator parts, commercial and hospital utensils, and laundry equipment parts sold separately) (<i>Specify kind.</i>) ↘ 	332116 5211 1			
34	Chemical milling products; milled contoured metal; and clad and bonded metal products (excluding precious metals when used in jewelers' findings and materials)	332116 5221 0			
35	Perforated metal end products	332116 5231 9			

CONTINUE WITH 22 ON PAGE 13

33204124

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

Line No.	Products and services	Census product code	Products shipped and other receipts		
			Value, f.o.b. plant		
			\$ Bil.	Mil.	Thou.
	0734	0730	0731		
	Other stamped and pressed metal end products (including vitreous enameled products) - Continued				
36	Electronic enclosures (excluding computer stampings)	332116 5361 4			
37	Stamped metal coins, including stamped metal tokens	332116 5293 9			
38	Other stamped and pressed metal end products (excluding spinning products) (Specify kind.) ↴ [Redacted]	332116 5295 4			
39	Receipts for machine shop job work and job order repairs	332710 0100 1			
40	Precision turned products (made on CNC equipment or screw machines), except automotive, nsk (Specify kind.) ↴ [Redacted]	332721 5YVV 7			
41	Electroplating, plating, polishing, anodizing, and coloring	332813 0101 1			
42	Laminating steel for the trade	332813 0102 9			
43	Noninsulated ferrous wire rope, cable, etc., not produced by wire drawers (including wire forms)	332618 1YVV 9			
44	Dies (for metal cutting only) Press brake dies	333514 0318 4			
45	Forming and drawing dies 500 pound weight or less	333514 0321 8			
46	501 to 3,000 pound weight	333514 0326 7			
47	More than 3,000 pound weight	333514 0332 5			
48	Stamping dies (including lamination and blanking dies) Progressive-type dies High-speed steel	333514 0535 3			
49	Carbide	333514 0538 7			
50	Other	333514 0429 9			
51	All other stamping-type dies (punch, trim, notch, pierce, perforate, etc.)	333514 0423 2			
52	Industrial models and prototypes	333514 0878 7			
53	Other specially designed tooling	333514 0981 9			

CONTINUE WITH 22 ON PAGE 14

33204132

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

Line No.	Products and services	Census product code	Products shipped and other receipts			
			Value, f.o.b. plant			
			\$ Bil.	Mil.	Thou.	
0734		0730	0731			
54	Automotive job stampings (truck, bus, and passenger car)	336370 0100 0				
55	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				
56		26				
57		34				
58		42				
59		59				
60		67				
61	Contract work - Receipts for work done for others on their materials (<i>Specify products worked on and kind of work.</i>) ↘	000930 0000 8				
62	Miscellaneous receipts Sales of scrap and refuse	000999 8013 8				
63	Other miscellaneous receipts (including receipts for repair work, etc.) . .	000999 8098 9				
64	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				
65	TOTAL (<i>Should equal 4, line A</i>)	770000 0000 8				

23-25 Not Applicable.

26 SPECIAL INQUIRIES

A. TRUCK MOUNTED TOOL BOXES

Of the amount reported in 22, on line 30, estimate the value of shipments of stamped or pressed tool boxes for mounting on trucks 8690

Mark "X" if None

2002	
Amount	
\$ Mil.	Thou.

CONTINUE WITH 26 ON PAGE 15

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

26 SPECIAL INQUIRIES - Continued

B. SELECTED METALWORKING AND RELATED OPERATIONS

(Report the type(s) of operation(s) performed below and the approximate number of production workers on all shifts usually engaged in the specified operation.)

		Mark "X" if None	Number of production workers (on all shifts) usually employed when operated (estimate if necessary)
1.	Electroplating and other plating	<input type="checkbox"/>	
2.	Galvanizing and other hot dip coating of fabricated articles	<input type="checkbox"/>	
3.	Heat treating of metals for production purposes	<input type="checkbox"/>	
4.	Precision turned products (on screw machines, turning centers, and CNC equipment)	<input type="checkbox"/>	
5.	Machine shop	<input type="checkbox"/>	
6.	Tool and die shop (if separate from machine shop) for jigs, fixtures, dies, and other special tooling	<input type="checkbox"/>	
7.	Pattern shop (foundry patterns only - metal, wood, etc.)	<input type="checkbox"/>	
8.	Sheet metal work, aluminum or steel	<input type="checkbox"/>	
9.	Stamping and blanking of metals	<input type="checkbox"/>	
10.	Painting, lacquering, and enameling on metals	<input type="checkbox"/>	
11.	Welding of steel plate for manufacturing production	<input type="checkbox"/>	
12.	Welding repair shop	<input type="checkbox"/>	

CONTINUE WITH **26** ON PAGE 16



33204157

26 SPECIAL INQUIRIES - Continued

C. SELECTED PRODUCTS PRODUCED AND CONSUMED

- Report below the quantity of each listed item produced in this establishment and used in manufacturing other products made in this establishment.
- Purchases or receipts of the items specified below should be reported only in 16.
- Materials used to produce the items specified below should be reported in 16.
- Quantities produced for sale as such and not for incorporation in other products should be reported in 2.
- Report quantities in the unit of measure specified.

Mark "X" if not performed at this establishment

- | | | | |
|-----------|---|------|--------------------------|
| 1. | Ferrous foundries | 8301 | <input type="checkbox"/> |
| 2. | Nonferrous foundries, excluding die-casting | | |
| a. | Aluminum | 8302 | <input type="checkbox"/> |
| b. | Copper | 8303 | <input type="checkbox"/> |
| c. | Zinc | 8304 | <input type="checkbox"/> |
| d. | Other | 8305 | <input type="checkbox"/> |
| 3. | Nonferrous die-casting foundries | 8306 | <input type="checkbox"/> |

Unit of measure for quantities	Quantities produced in this establishment and used in manufacturing other products made in this establishment
short tons	
1000 lb	

4. Did this establishment produce precision turned products (on screw machines, turning centers, and CNC equipment)?

8308 Yes

8309 No

27 Not Applicable.



33204165

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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



33204173

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	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.

33204181