

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Report materials, parts, and supplies purchased, transferred from other plants of your company, or withdrawn from inventory.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

INFORMATION COPY  
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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>	Shapes and forms (excluding castings, forgings, and fabricated metal products) Steel shapes and forms				
	Bars, bar shapes, and plate . . . . .	331200 07 1			
<b>2</b>	Wire and wire products . . . . .	331200 25 3			
<b>3</b>	Sheet, strip, and tin mill products . . . . .	331200 73 3			
<b>4</b>	All other steel shapes and forms . . . . .	331200 27 9			
<b>5</b>	Aluminum and aluminum-base alloy shapes and forms . . . . .	331000 39 8			
<b>6</b>	Copper and copper-base alloy shapes and forms . . . . .	331421 11 5			
<b>7</b>	All other nonferrous shapes and forms . . . . .	331000 83 6			

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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		
<b>8</b>	Castings (rough and semifinished)				
	Iron and steel . . . . .	331510 01 6			
<b>9</b>	Aluminum and aluminum-base alloy . . . . .	331520 05 6			
<b>10</b>	Other nonferrous . . . . .	331520 03 1			
<b>11</b>	Iron and steel forgings . . . . .	332111 01 2			
	Fabricated metal products (excluding castings and forgings)				
<b>12</b>	Bolts, nuts, screws, washers, rivets, and other screw machine products . . . . .	332722 03 2			
<b>13</b>	Other fabricated metal products . . . . .	332000 95 9			
<b>14</b>	Wood parts (including handles) . . . . .	321000 47 3			
<b>15</b>	Paper and paperboard containers (including shipping sacks and other paper packaging supplies) . . . . .	322200 17 1			
<b>16</b>	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc. . . . .	325211 05 0			
<b>17</b>	Plastics products (film, sheet, rod, tube, fabricated shapes including parts, handles, grips, etc.) . . . . .	326100 03 9			
<b>18</b>	Fluid power products, including pumps, motors, valves, cylinders, rotary actuators, hose or tube fittings and assemblies, filters, etc. (hydraulic and pneumatic) . . . . .	001900 90 1			
<b>19</b>	Electrical transmission, distribution, and control equipment . . . . .	001900 B1 6			
<b>20</b>	Cost of all other materials and components, parts, containers, and supplies consumed (Specify the principal materials, etc., included in this value.) ↴	009700 99 8			
<b>21</b>	<b>TOTAL</b> (Should equal total reported in 16, line A1) . . . . .	771000 00 7			

**17-21** Not Applicable.

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**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.

**Products Shipped and Other Receipts** - Report in these columns the quantity and value of all products made in this establishment which were physically shipped on consignment, whether or not sold at the end of the year. The value of the products shipped and services performed should be based on the net selling value, f.o.b. plant, after discounts and allowances, and exclusive of freight charges and excise taxes.

**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.	Thou.	
0734		0730	0736	0732	0731			
<b>1</b>	Mechanics' hand service tools		↑ thousands ↓					
	Pliers							
<b>2</b>	Slip joint . . . . .	332212 1101 5						
<b>3</b>	Solid joint . . . . .	332212 1206 2						
<b>4</b>	Ball peen hammers . . . . .	332212 1311 0						
<b>5</b>	Screwdrivers . . . . .	332212 1351 6						
<b>6</b>	Automobile jacks, mechanical (excluding hydraulic and pneumatic) . . . . .	332212 1356 5						
<b>7</b>	Tools for automotive use (excluding jacks, but including wheel and gear pullers, valve tools, body and fender tools, etc.) . . . . .	332212 1361 5						
<b>8</b>	Other mechanics' hand service tools (including blow torches and tape measures) ( <i>Specify kind.</i> ) ↘							
<b>9</b>	Wrenches							
<b>10</b>	Socket, including sockets, drives (ratchet and other), extensions, etc.; for hand-operated socket wrenches . . . . .	332212 1416 7						
<b>11</b>	Open-end and box wrenches . . . . .	332212 1421 7						
<b>12</b>	Torque wrenches . . . . .	332212 1426 6						
<b>13</b>	Adjustable, including pipe wrenches . . . . .	332212 1431 6	thousands					
	Combination open-end and box . . . . .	332212 1436 5						
	All other . . . . .	332212 1444 9						

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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			
14	Edge tools, hand-operated Axes, adzes, hatchets, and chisels . . . . .	332212 3101 3						
15	Professional and craft edge handtools (including knives) (palette, mixing, paperhanger, potter, putty, etc.), scrapers, trimmers, etc. . . . .	332212 3106 2						
16	Other edge tools (including kitchen, animal hand clippers, agricultural, and forestry edge handtools) (Specify kind.) ↘ [Redacted]	332212 3131 0						
17	Dies and interchangeable cutting tools, for machine and power-driven handtools Dies (except metal cutting) Steel rule dies . . . . .	332212 5101 1						
18	Other cutting dies, for use in cutting cloth, paper, leathers, etc. . . . .	332212 5206 8						
19	Machine knives (except metal cutting) Veneer knives and chipper knives . . . . .	332212 5311 6						
20	All other machine knives . . . . .	332212 5316 5						
21	Machine tools for woodcutting Countersink, drill, and router bits . . . . .	332212 5321 5						
22	All other woodcutting machine tools (including milling cutters) (Specify kind.) ↘ [Redacted]	332212 5333 0						
23	Other handtools, nec Shovels, spades, scoops, telegraph spoons, and scrapers . . . . .	332212 7101 9	↑ thousands					
24	Light forged hammers, less than 4 pounds (excluding ball peen hammers) . . . . .	332212 7111 8	↓					
25	Heavy forged tools, sledges (4 pounds or more), picks, pick mattocks, and mauls . . . . .	332212 7116 7						
26	Steel goods (forks, hoes, rakes, weeders, etc.) . . . . .	332212 7121 7	↑					
27	Soldering irons (electric) . . . . .	332212 7131 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		
	Other handtools, nec - Continued						
28	Clamps and vises (excluding machine tool accessories) . . . . .	332212 7136 5					
29	Wheelbarrows . . . . .	332212 7141 5					
30	Other handtools (including nonpowered lawnmowers, woodworking and metalworking files and rasps; (including precision files); except edge tools) (Specify kind.) ↴	332212 7199 3					
31	Precision measuring tools (inspection, quality control, tool room, and machinists')						
	Comparators (excluding optical) . . . . .	332212 9101 7					
32	Fixed size limit gauges (American gauges design type C58-61)						
	Fixture type . . . . .	332212 9106 6					
33	Thread type . . . . .	332212 9111 6					
34	Adjustable size limit gauges . . . . .	332212 9116 5					
35	Gauge blocks . . . . .	332212 9121 5					
36	Dial indicators . . . . .	332212 9126 4					
37	Micrometers and calipers . . . . .	332212 9131 4					
38	Other precision measuring tools (including industrial quality control laser systems and equipment, dividers, gear checking and surface texture measuring machines) . . . . .	332212 9171 0					
39	Pneumatic and electronic gauges (manual and automatic) . . . . .	332212 9236 1					
40	Coordinate and contour measuring machines (inspection and gauging) . . . . .	332212 9341 9					
41	Parts and accessories for machinists' precision measuring tools (sold separately) . . . . .	332212 9451 6					
42	Metal cutting shears (including aviation and tinner's snips, BX, and wire filament cutters) . . . .	332211 2336 8					
43	Tool-type scissors and shears (including hedge and grass shears and pruners) . . . . .	332211 2345 9					
44	Other cutlery, scissors, shears, trimmers, and snips, nsk (Specify kind.) ↴	332211 WYWW 9					

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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		
45	Plastics products, nsk (Specify kind.) ↴	326199 WYWW 4					
46	Saw blades and handsaws, nsk (Specify kind.) ↴	332213 0YWW 8					
47	Hardware manufacturing, nsk (Specify kind.) ↴	332510 WYWW 4					
48	Consumer nonriding lawn, garden, and snow equipment . . . . .	333112 1100 8					
49	Parts and attachments for mining machinery and equipment (sold separately), nsk (Specify kind.) ↴	333131 9YVV 4					
50	Machines for making paper and paperboard cartons, boxes, cases, tubes, drums, or similar containers, except by molding . . . . .	333291 1581 1					
51	Printing trades paper cutting machines . . . . .	333293 7111 7					
52	Machine tool (metal cutting types) manufacturing, nsk (Specify kind.) ↴	333512 WYWW 9					
53	Special dies, tools, jigs, and fixtures, nsk (Specify kind.) ↴	333514 0YWW 8					
54	Small cutting tools for machine tools and metalworking machinery, nsk (Specify kind.) ↴	333515 1YVV 6					
55	Other attachments and accessories for machine tools and metalworking machinery, nsk (Specify kind.) ↴	333515 3YVV 4					
56	Wire rope or wire cable making machines (except handheld and ultrasonic) . . . . .	333518 3106 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		
57	Household and person-weighing scales (including bathroom, coin-operated, free weighing, kitchen, and baby scales) . . . . .	333997 3105 9					
58	Intercommunications systems, including inductive paging systems (selective paging), except telephone and telegraph . . . . .	334290 3100 9					
59	Test equipment for testing electrical, radio, and communication circuits, and motors, except portable instrument transformers . . . . .	334515 3100 9					
60	Electrical wiring tools, including fish wire . . . . .	335932 5101 1					
61	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.	18					
62		26					
63		34					
64		42					
65		59					
66		67					
67	Contract work - Receipts for work done for others on their materials (Specify products worked on and kind of work.) ↴	000930 0000 8					
68	Miscellaneous receipts Sales of scrap and refuse . . . . .	000999 8013 8					
69	Receipts for research and developmental work	000999 8041 9					
70	Receipts for repair work . . . . .	000999 8061 7					
71	Other miscellaneous receipts . . . . .	000999 8098 9					
72	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					
73	<b>TOTAL</b> (Should equal 4, line A) . . . . .	770000 0000 8					
23-25 Not Applicable.							

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**26** SPECIAL INQUIRIES

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
- 2. Nonferrous foundries, excluding die-casting
  - a. Aluminum . . . . . 8302
  - b. Copper . . . . . 8303
  - c. Zinc . . . . . 8304
  - d. Other . . . . . 8305
- 3. Nonferrous die-casting foundries . . . . . 8306
- 4. Did this establishment produce precision turned products (on screw machines, turning centers, and CNC equipment)?

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

8308  Yes      8309  No

**27** Not Applicable.



33208158



**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:

- |  |                                   |                                  |
|--|-----------------------------------|----------------------------------|
| <b>1.</b> Manage inventory owned by this establishment AND held at this location? . . . . .  | 0936 <input type="checkbox"/> Yes | 0937 <input type="checkbox"/> No |
| <b>2.</b> Manage inventory owned by this establishment BUT held at a customer's location? . . . . .  | 0956 <input type="checkbox"/> Yes | 0957 <input type="checkbox"/> No |
| <b>3.</b> Manage inventory owned by another company BUT held at this location? . . . . .   | 0976 <input type="checkbox"/> Yes | 0977 <input type="checkbox"/> No |
| <b>4.</b> Manage inventory owned by another company AND held somewhere other than at this location? . . . . .  | 0994 <input type="checkbox"/> Yes | 0995 <input type="checkbox"/> No |
| <b>5.</b> 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 |
| <b>6.</b> 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 |
| <b>7.</b> Manufacture products for a government to their specifications? . . . . .   | 8047 <input type="checkbox"/> Yes | 8048 <input type="checkbox"/> No |
| <b>8.</b> Manufacture products for another business to their specifications? . . . . .   | 8016 <input type="checkbox"/> Yes | 8017 <input type="checkbox"/> No |
| <b>9.</b> 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.**

33208174