

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Report materials, parts, and supplies purchased, transferred from other plants of your company, or withdrawn from inventory.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

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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			
<b>1</b>	Fabricated metal products (excluding forgings) . . .	332000 81 9	↑ short tons ↓					
<b>2</b>	Forgings . . . . .	332100 01 5						
	Shapes and forms (excluding castings, forgings, and fabricated metal products)							
	Steel							
<b>3</b>	Ingot and semifinished shapes (blooms, billets, and slabs) . . . . .	331200 05 5						
<b>4</b>	Bars, bar shapes, and other shapes and forms . . . . .	331200 65 9						
<b>5</b>	Titanium and titanium-base alloy . . . . .	331491 01 9						
<b>6</b>	Aluminum and aluminum-base alloy shapes and forms . . . . .	331000 39 8						
<b>7</b>	Nickel and nickel-base alloy (including nickel-copper alloys) . . . . .	331491 03 5						
<b>8</b>	All other nonferrous shapes and forms . . . . .	331000 74 5						

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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	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			
<b>9</b>	Forgings dies . . . . .	333514 00 8	short tons					
<b>10</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>11</b>	<b>TOTAL</b> (Should equal total reported in 16, line A1)	771000 00 7						

**17** Not Applicable.

**18** TYPE OF OPERATION

(Mark "X" the ONE box that best describes the operation performed at this establishment during 2002.)

**Steel forgings**

- 0620 388  Either all or partly produced from ingot, blooms, billets, slabs, or bars produced in this establishment
- 390  All produced from ingot, blooms, billets, slabs, or bars purchased from other companies or received from other plants of the same company

**19-21** 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.

**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."

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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		
	Iron and steel forgings		↑ short tons ↓				
	Hot impression die impact, press, and upset steel forgings						
1	Carbon steel . . . . .	332111 1101 9					
2	Alloy steel (excluding stainless and hi-temp)	332111 1206 6					
3	Stainless . . . . .	332111 1311 4					
4	Hi-temp (iron, nickel, or cobalt-base alloys) .	332111 1416 1					
	Cold impression die impact, press, and upset steel forgings						
5	Carbon steel . . . . .	332111 3101 7					
6	Alloy and stainless steel and hi-temp (iron, nickel, or cobalt-base alloy) . . . . .	332111 3116 5					
	Seamless rolled ring forgings (ferrous)						
7	Carbon and alloy steel (excluding stainless and hi-temp) . . . . .	332111 5101 5					
8	Stainless steel and hi-temp (iron, nickel, or cobalt-base alloy) . . . . .	332111 5106 4					
	Open-die or smith forgings (hammer or press), ferrous						
9	Carbon and alloy steel (excluding stainless and hi-temp) . . . . .	332111 7101 3					
10	Stainless steel and hi-temp (iron, nickel, or cobalt-base alloy) . . . . .	332111 7106 2					
	Hot impression die impact, press, and upset nonferrous forgings		↑ short tons ↓				
11	Aluminum and aluminum alloy . . . . .	332112 1101 7					
12	Titanium and titanium alloy . . . . .	332112 1206 4					
13	Copper and copper-base alloy . . . . .	332112 1311 2					
14	Other hot impression nonferrous forgings . . .	332112 1316 1					
	Other nonferrous forgings						
15	Cold impression die impact, press, and upset nonferrous forgings . . . . .	332112 2101 6					
16	Seamless rolled ring nonferrous forgings . . . .	332112 2106 5					
17	Open-die or smith nonferrous forgings (hammer or press) . . . . .	332112 2111 5					
	Special dies and tools, die sets, jigs, and fixtures (Specify kind.) ↘						
18		333514 0YWW 8					

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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	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.							
<b>19</b>		18						
<b>20</b>		26						
<b>21</b>		34						
<b>22</b>		42						
<b>23</b>		59						
<b>24</b>		67						
	Contract work - Receipts for work done for others on their materials (Specify products worked on and kind of work.) ↴							
<b>25</b>		000930 0000 8						
	Miscellaneous receipts							
<b>26</b>	Sales of scrap and refuse . . . . .	000999 8013 8						
<b>27</b>	Other miscellaneous receipts (including receipts for repair work, etc.) . . . . .	000999 8098 9						
<b>28</b>	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						
<b>29</b>	<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.</b> Product design/engineering . . . . .			
<b>2.</b> Order fulfillment			
0923 <input type="checkbox"/>	8072 <input type="checkbox"/>	0943 <input type="checkbox"/>	0963 <input type="checkbox"/>
<b>a.</b> 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>b.</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"/>
<b>c.</b> Warehousing of finished products . . . . .			
0926 <input type="checkbox"/>	8075 <input type="checkbox"/>	0946 <input type="checkbox"/>	0966 <input type="checkbox"/>
<b>d.</b> 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"/>
<b>e.</b> 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"/>
<b>f.</b> 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"/>
<b>g.</b> Processing of returned merchandise . . . . .			

**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.**

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