

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

17 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 **22**. 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.

Report materials, parts, and supplies purchased, transferred from other plants of your company, or withdrawn from inventory.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 amounts 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 as 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 **16**, 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 **16**, line A2, not in **17**. The value of these products shipped by this establishment should be reported in **22** under Census product code 999899 1000, "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 **26**. Note that the materials used to produce these items should be reported in **17**.

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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		
1	Fabricated metal products (excluding forgings)				
	Bolts, nuts, screws, rivets, washers, and screw machine products	332722 03			
2	All other fabricated metal products (excluding forgings, bolts, nuts, screws, rivets, washers, and screw machine products) . .	332001 01			
3	Forgings	332110 00			
4	Castings (rough and semifinished)				
	Iron and steel	331510 01			
5	Castings (rough and semifinished)				
	Aluminum and aluminum-base alloy	331520 05			
6	All other nonferrous metal castings	331520 04			

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17 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			
7	Shapes and forms (excluding castings, forgings, and fabricated metal products) Steel Bars, bar shapes, and plate	331200 07				
8	Sheet and strip (including tinplate)	331000 22				
9	Structural shapes and sheet piling	331000 25				
10	All other steel shapes and forms	331200 92				
11	Copper and copper-base alloy Rods, bars, and mechanical wire (including extruded and/or drawn shapes)	331421 05				
12	All other copper and copper-base alloy shapes and forms (excluding castings, forgings, fabricated metal products, rods, bars, bare wire, mechanical wire, pipes, tubes, sheet, plate, and strip)	331421 46				
13	Aluminum and aluminum-base alloy Sheet, plate, foil, and welded tubing	331315 00				
14	All other aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, sheet, plate, foil, welded tubing, and fabricated metal products)	331000 54				
15	All other nonferrous metal shapes and forms	331000 03				
16	Machine tool accessories (including cutting tools)	333515 05				
17	Cost of all other materials and components, parts, containers, and supplies consumed (Specify the principal materials, etc., included in this value.) ↴	009700 99				
18	TOTAL (Should equal total reported in 16 , line A1)	771000 00				

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18-21 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.

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.

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 999899 1000. (See 1e.)

Special Reporting Instructions and Definitions

Contract work requested on line 37 covers manufacturing activities performed only on materials owned by others and excludes any machine shop job work or job order repairs.

If another company makes products for you from your materials on a contract basis, report the value of these products on lines 1 through 30 but not on line 37.

Receipts for repair work requested on line 41 cover occasional repairs not done on a factory basis and exclude any machine shop job order repairs.

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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			
1	Receipts for machine shop job work and job order repairs (including the following activities and operations: producing machinery parts, all types; repairing machinery parts, all types; machining of castings, crankshafts, etc.; grinding, boring, milling, and other machining activities; and repairing of machinery on a factory basis)	332710 0100						
2	Metal services Heat treating of metal (heat treating, pickling, annealing, brazing, shot peening, tempering, etc.)	332811 0100						
3	Metal coating, engraving (except jewelry and silverware), and allied services to manufacturers (<i>Specify kind</i>) ↴ 	332812 0YWW						
4	Electroplating, plating, polishing, anodizing, and coloring	332813 0200						
5	Steel service centers (including steel slitting on a customer basis)	999899 9045						
6	Sharpening services	999899 9067						

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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		
	Metal services - Continued						
7	Welding repair shop (welding service)	999899 9037					
8	Steel slitting on a contract basis	999899 9048					
	Weldments and fabricated steel plate						
9	Construction and mining	332313 0351					
	All other purposes (Specify kind) ↴						
10		332313 0361					
	Aluminum, steel, and other sheet metal		1000 ft ²				
11	Sheet metal air-conditioning ducts (including dust collection ducts), stove pipe, furnace smoke pipe, and elbows	332322 1100					
12	Roofing (all types) and roof drainage equipment (including eave troughs, etc.)	332322 7100					
13	Culverts, flumes, irrigation pipes, etc.	332322 3100					
	Job stampings						
14	Automotive job stampings (truck, bus, and passenger car)	336370 0100					
15	Aviation metal job stampings	332116 1311					
	Other metal job stampings (excluding automotive and aviation) (Specify kind) ↴						
16		332116 1YWW					
	Precision turned products (nonstandard items made from rod, bar, and tube stock on screw machines and CNC turning centers)						
17	Automotive	332721 1100					
	Other precision turned products (excluding automotive) (Specify kind) ↴						
18		332721 3100					

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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			
19	Foundry patterns	332997 0101						
20	Flexible hose and tubing, (including steel, stainless steel, aluminum, copper, alloys and other types)	332999 5100						
21	Bolts, nuts, screws, rivets, and washers, such as: (a) aircraft (including aerospace) fasteners other than plastics (meet specifications for flying vehicles); (b) externally threaded metal fasteners excluding aircraft types; (c) internally threaded metal fasteners, excluding aircraft types; (d) nonthreaded metal fasteners, excluding aircraft types; (e) products, other than fasteners, made by cold-heading processes (<i>Specify kind</i>) ↘	332722 WYWW						
22	Special dies, tools, jigs, and fixtures Jigs and fixtures (including parts)	333514 0A10						
23	Metalworking die and die sets	333514 0B10						
24	Punches, industrial prototypes, die parts, and other special tooling	333514 0C10						
25	Cutting tools (including broaches, reamers, hobs) and all other miscellaneous solid and tipped carbide cutting tools for machine tools and metalworking machinery	333515 1103						
26	Tool holders, tracer and tapering attachments, lathe chucks, rotary tables, collets, jaws, vises, tool room specialties, and all other attachments and accessories	333515 3100						
27	Industrial molds Industrial injection-type, compression-type, and other industrial molds (including matched metal, transfer, plunger, and rotational molds) made of metal for plastics	333511 0571						
28	Other industrial molds and mold boxes (<i>Specify kind</i>) ↘	333511 0YWW						

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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			
29	Parts for packing, packaging, and bottling machinery	333993 5100						
30	General purpose machinery, such as: (a) filters and strainers (excluding fluid power); (b) filters for hydraulic fluid power systems, nonaerospace; (c) filters for pneumatic fluid power systems, nonaerospace; (d) filters for hydraulic and pneumatic fluid power systems, aerospace; (e) other (<i>Specify kind</i>) ↴							
31	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 pre-listed products and services. For all remaining products, write "Other" and report a single total value.</i>)	18						
32		26						
33		34						
34		42						
35		59						
36		67						
37	Contract work - Receipts for work done for others on their materials (<i>Specify products worked on and kind of work.</i>) ↴	999899 2000						
38	Resales - Sales of products bought and sold without further manufacture, processing, or assembly (<i>The cost of such items should be reported in 16, line A2.</i>)	999899 1000						

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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			
39	Miscellaneous receipts							
	Sales of scrap and refuse	999899 9003						
40	Receipts for installation (or construction) of products of this establishment	999899 9012						
41	Receipts for repair work	999899 9030						
42	Receipts for research and development	999899 9052						
43	Other miscellaneous receipts	999899 9091						
44	TOTAL (Should equal total reported in 5)	770000 0000						

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23-25 Not Applicable.

26 SPECIAL INQUIRIES

A. PURCHASE OF CONTRACT MANUFACTURING

1. Did this establishment **purchase** contract manufacturing services from other companies or foreign plants of your company in 2012?

Include:

- Products for which the manufacturing (i.e., transforming or otherwise processing materials or components based on specifications provided by your company) was outsourced to other companies.
- Products for which the manufacturing was performed by your company's foreign plants.

Exclude:

- Services for packaging and assembling.
- Purchases of merchandise for resale (sale of products bought and sold without further processing or transformation).

1011 Yes - Go to line 2

1012 No - Go to **B**

2. Report the costs incurred by this establishment for contract manufacturing purchased in 2012 1013

3. Report the value of sales, shipments, receipts, or revenue generated in 2012 from products whose purchases were reported as contract manufacturing costs in line 2 1015

	2012		
	\$ Bil.	Mil.	Thou.
1013			
1015			

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26 SPECIAL INQUIRIES - Continued

B. RECEIPTS FROM CONTRACT MANUFACTURING

1. Did this establishment provide contract manufacturing services to others in 2012 (regardless of materials ownership)?

Include:

- Products manufactured at this location (i.e., transforming or otherwise processing materials or components based on specifications provided by the contracting company).
- Products manufactured and transferred to other plants of your company.
- Products manufactured and exported.

Exclude:

- Services for packaging and assembling.
- Sales of products purchased and sold without further processing or transformation.

1017 Yes - Go to line 2

1018 No - Go to C

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2. Report the value of sales, shipments, receipts, or revenue generated in 2012 from contract manufacturing performed at this location for others (regardless of materials ownership and based on specifications provided by the contracting company) 1019

2012		
\$ Bil.	Mil.	Thou.
<input type="text"/>	<input type="text"/>	<input type="text"/>

Please describe the product(s) being manufactured for others at this establishment. ↴

1020

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26 SPECIAL INQUIRIES - Continued

C. 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 8401	<input type="checkbox"/>	□ □ □ □
2. Galvanizing and other hot dip coating of fabricated articles 8402	<input type="checkbox"/>	□ □ □ □
3. Heat treating of metals for production purposes 8403	<input type="checkbox"/>	□ □ □ □
4. Precision turned products (on screw machines, turning centers, and CNC equipment) 8404	<input type="checkbox"/>	□ □ □ □
5. Machine shop 8405	<input type="checkbox"/>	□ □ □ □
6. Tool and die shop (if separate from machine shop) for jigs, fixtures, dies, and other special tooling 8406	<input type="checkbox"/>	□ □ □ □
7. Pattern shop (foundry patterns only - metal, wood, etc.) 8407	<input type="checkbox"/>	□ □ □ □
8. Sheet metal work, aluminum or steel 8408	<input type="checkbox"/>	□ □ □ □
9. Stamping and blanking of metals 8409	<input type="checkbox"/>	□ □ □ □
10. Painting, lacquering, and enameling on metals 8410	<input type="checkbox"/>	□ □ □ □
11. Welding of steel plate for manufacturing production 8411	<input type="checkbox"/>	□ □ □ □
12. Welding repair shop 8412	<input type="checkbox"/>	□ □ □ □

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26 SPECIAL INQUIRIES - Continued

D. 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 **17**.
- Materials used to produce the items specified below should be reported in **17**.
- Quantities produced for sale as such and not for incorporation in other products should be reported in **22**.
- Report quantities in the unit of measure specified.

Mark "X" if not performed at this establishment

Quantities produced in this establishment and used in manufacturing other products made in this establishment

<p>1. Ferrous foundries 8301</p>	<input type="checkbox"/>		short tons
<p>2. Nonferrous foundries, excluding die casting</p>			
<p>a. Aluminum 8302</p>	<input type="checkbox"/>		thousand pounds
<p>b. Copper 8303</p>	<input type="checkbox"/>		thousand pounds
<p>c. Zinc 8304</p>	<input type="checkbox"/>		thousand pounds
<p>d. Other 8305</p>	<input type="checkbox"/>		thousand pounds
<p>3. Nonferrous die-casting foundries 8306</p>	<input type="checkbox"/>		thousand pounds
<p>4. Did this establishment produce precision turned products (on screw machines, turning centers, and CNC equipment)?</p>			
<p>8308</p>	<input type="checkbox"/>	Yes	
<p>8309</p>	<input type="checkbox"/>	No	

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27-29 Not Applicable.

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REMARKS (Please use this space for any explanations that may be essential in understanding your reported data.)

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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?

Yes

No - Enter time period covered →

FROM	Month	Year	TO	Month	Year
	<input type="text"/>	<input type="text"/>		<input type="text"/>	<input type="text"/>

Name of person to contact regarding this report

Title

Area code	Number	Extension
<input type="text"/>	<input type="text"/>	<input type="text"/>

Area code	Number
<input type="text"/>	<input type="text"/>

E-mail address

Date completed	Month	Day	Year
	<input type="text"/>	<input type="text"/>	<input type="text"/>

**Thank you for completing your 2012 ECONOMIC CENSUS form.
PLEASE PHOTOCOPY THIS FORM FOR YOUR RECORDS AND RETURN THE ORIGINAL.**

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