

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Report materials, parts, and supplies purchased, transferred from other plants of your company, or withdrawn from inventory.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	Valves				
	Fluid power valves (hydraulic and pneumatic)	332912 05 4			
2	All other valves	332919 03 4			
	Pumps (complete assemblies)				
3	Hydraulic and pneumatic fluid power pumps, motors, and hydrostatic transmissions	333996 01 5			
4	Other pumps	333911 03 0			
	Fluid power products, excluding valves and pumps and motors (hydraulic and pneumatic)				
5	Cylinders and rotary actuators	333995 01 7			
6	Filters	333999 01 9			
7	Hose or tube fittings and assemblies	332912 03 9			
8	Fabricated metal products, excluding forgings and fluid power products . .	332000 57 9			
9	Forgings	332100 01 5			

CONTINUE WITH **16** ON PAGE 9

33303082

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		
10	Castings (rough and semifinished)				
	Iron and steel	331510 01 6			
11	Nonferrous (aluminum, copper, etc.)	331520 11 4			
	Shapes and forms (excluding castings, forgings, and fabricated metal products)				
	Steel				
12	Bars, bar shapes, and plate	331200 07 1			
13	Structural shapes	331200 69 1			
14	All other steel shapes and forms	331200 89 9			
15	All nonferrous shapes and forms	331000 AJ 9			
16	Metal powders	331000 AA 7			
17	Diesel and semidiesel engines	333618 11 4			
18	Integral horsepower electric motors and generators (1 hp or more)	335312 21 1			
19	Ball and roller bearings (mounted or unmounted)	332991 01 7			
20	Fabricated rubber products, excluding tires, tubes, hose, belting, and gaskets	326000 17 1			
21	Fabricated plastics products (excluding gaskets)	326100 11 2			
22	Industrial diamonds	327999 03 3			
23	Cutting tools for machine tools	333515 03 9			
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 15 , line A1)	771000 00 7			

17-21 Not Applicable.

33303090

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.

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. For corresponding survey item codes, see paragraph 4, "Comparability," of CIR Instruction Manual.

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

Line No.	Products and services *Items correspond to products reported on Current Industrial Reports (CIR)	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	Rotary oil and gas field drilling machinery and equipment	333132 1101 4	number				
	Rotary drilling surface equipment						
	Blocks, crown, traveling, draw works and accessories, and rotary tables						
2	Well control equipment (blow-out preventers, etc.)	333132 1116 2					
3	Other rotary drilling surface machinery and equipment (including kelly joints) (Specify kind.) ↴	333132 1122 0					
4	Rotary drilling subsurface equipment	333132 1126 1	number				
	Bits						
	With working parts of sintered metal carbide or cermets						
5	With working parts of other material (including diamond)	333132 1131 1					
6	Reamers, stablizers, and coring equipment	333132 1136 0					

CONTINUE WITH **22** ON PAGE 11

33303108

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	Unit of measure for quantities	Products shipped and other receipts				
				Quantity	Value, f.o.b. plant			
					\$ Bil.	Mil.	Thou.	
0734		0730	0736	0732	0731			
	Rotary oil and gas field drilling machinery and equipment - Continued							
	Rotary drilling subsurface equipment - Continued							
7	Fishing and cutting tools	333132 1151 9						
8	Subsea drilling risers	333132 1156 8	number					
	Other subsurface rotary drilling equipment (Specify kind.) ↴							
9		333132 1166 7						
10	Parts for rotary drilling equipment sold separately (except for portable drilling rigs) . .	333132 1271 5						
	Other oil and gas field drilling machinery and equipment							
11	Cementing equipment	333132 3111 1						
	Other oil and gas field drilling equipment (except rotary drilling equipment and portable drilling rigs)(Specify kind.) ↴							
12		333132 3122 8						
	Parts for other oil and gas field drilling equipment sold separately (except parts for rotary drilling equipment and portable drilling rigs)							
13		333132 3226 7						
	Oil and gas field production machinery and equipment (except pumps)							
	Production well equipment, surface, subsurface, and subsea							
14	Christmas tree assemblies (excluding subsea)	333132 5101 0						
15	Casing and tubing heads and supports . . .	333132 5106 9						
16	Chokes, manifolds, and other accessories (excluding subsea manifolds and templates)	333132 5111 9						
17	Rodless oil lifting machinery and equipment (other than pumps)	333132 5116 8						
18	Subsea Christmas tree assemblies, manifolds, and templates	333132 5121 8						
19	Oil and gas field surface rod lifting pumping units and accessories (including back crank equipment)	333132 5126 7						
20	Packers	333132 5141 6						
21	Screens, tubing, catchers, etc.	333132 5146 5						

CONTINUE WITH 22 ON PAGE 12

CONTINUE ON PAGE 12

33303116

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	Unit of measure for quantities	Products shipped and other receipts				
				Quantity	Value, f.o.b. plant			
					\$ Bil.	Mil.	Thou.	
0734		0730	0736	0732	0731			
22	Oil and gas field production machinery and equipment (except pumps) - Continued Oil and gas separating, metering, and treating equipment for use at the wellhead	333132 5151 5						
23	Other oil and gas field production machinery and tools (Specify kind.) ↴ [Redacted]	333132 5199 4						
24	Parts for oil and gas field production machinery and tools, sold separately (excluding parts for portable drilling rigs and other drilling equipment)	333132 5256 2						
25	Portable drilling rigs and parts Portable drilling rigs (mounted) used on the surface (above ground) (Corresponds to the value of shipments reported on CIR Form MA333F, Mining Machinery and Mineral Processing Equipment, for 2002, item codes 6005 - 6495)*	333132 7101 8						
26	Parts for portable drilling rigs used on the surface (above ground) (Corresponds to the value of shipments reported on CIR Form MA333F, Mining Machinery and Mineral Processing Equipment, for 2002, item code 6500)*	333132 7210 7						
27	Oil and gas field derricks and well surveying machinery Oil and gas field derricks, substructures, and accessories (regular and portable) (including equipment shipped "knocked down" and assembled on the site) and well surveying machinery and equipment, excluding well logging equipment	333132 9108 1						
28	Well logging equipment (Specify kind.) ↴ [Redacted]	333132 9111 5						
29	Oil well and oil field pumps, except boiler feed (Corresponds to the value of shipments reported on CIR Form MA333P, Pumps and Compressors, for 2002, item codes 1698 and 1701 - 1721)*	333911 1330 6						
30	Fabricated iron and steel pipe and pipe fittings made from purchased pipe	332996 3101 1						
31	Receipts for machine shop job work and job order repairs	332710 0100 1						

CONTINUE WITH 22 ON PAGE 13

33303124

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	Unit of measure for quantities	Products shipped and other receipts				
				Quantity	Value, f.o.b. plant			
					\$ Bil.	Mil.	Thou.	
0734		0730	0736	0732	0731			
32	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						
33		26						
34		34						
35		42						
36		59						
37		67						
38	Contract work - Receipts for work done for others on their materials (Specify products worked on and kind of work.) ↴	000930 0000 8						
39	Miscellaneous receipts							
	Receipts for repair work	000999 8061 7						
40	Receipts for equipment rental and leasing . . .	000973 9000 9						
41	Other miscellaneous receipts	000999 8098 9						
42	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						
43	TOTAL (Should equal 4, line A)	770000 0000 8						

23-27 Not Applicable.



33303132

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 |



33303140

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

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.

33303157