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Report materials, parts, and supplies purchased, transferred from other plants of your company, or withdrawn from inventory.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 the dect, have incurred in acquiring the materials.

Materials received from other plants within your land the resorted at their full example assigned by the shipping plant, plus the cold to other handling charges). valve the lalue

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 agnificantly from the amounts purchased or transferred, these amounts should be adjusted for onlyinges in the paterials and supplies inventories by adding the beginning inventory to the amount purchased or transferred and subtracting ending inventory.

Contract Work - Include at my trial consumer those you purchased for use by others making products for you under contract. Amounts pad to be companies doing the contract work should be reported in , 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 6, line A2, not in 6. The value of these products shipped by this establishment should be reported in 2 under Census product code 000999 8900 6, "Resales."

_	1 7 - 1	. '				_
Line No.	Materials, parts, and supplies	Census material code	matei re esta	imption of prials and of ceived from blishments compan	materials other of your y elivery cost	
			\$ Bil.	Mil.	Thou.	
	0634	0630	0631			
1	Electric motors, generators, and parts	335312 07 0				
	Hydraulic and pneumatic fluid power pumps, motors, and hydrostatic				1 1	
2	transmissions	333996 01 5				_
3	Clutches, couplings, shafts, sprockets, and other mechanical power transmission equipment	333613 05 7				
	Bearings (mounted or unmounted)			1 1		
4	Ball	332991 05 8			1 1	
5	Roller	332991 03 3				
6	Balls, rollers, cages, collars, races, and other antifriction bearing components and parts	332991 07 4				5
7	Special dies, tools, die sets, jigs, and fixtures (excluding cutting tools for machine tools)	335100 00 4				000
8	Internal combustion engines (diesel, semidiesel, gasoline, and other carburetor)	333618 09 8				(
	Fabricated metal products (excluding forgings)					
9	Bolts, nuts, screws, rivets, washers, and screw machine products	332722 03 2				
10	Other fabricated metal products	332000 95 9				
	CONTINUE WITH <page-header> ON PAGE 9</page-header>					

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	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				
Lin			Cost, i	ncluding de (freight-ir	-		
	0634	0630	\$ Bil. 0631	Mil.	Thou.		
	Forgings Iron and steel						
11	Cold	332111 03 8					
2	Other	332111 11 1					
13	Nonferrous	332112 01 0					
	Castings (rough and semifinished)						
14	Iron and steel	331510 01 6					
15	Nonferrous (aluminum, copper, etc.)	331520 11 4					
	Shapes and forms (excluding castings, forgings, and fabricated metal products) Steel						
16	Bars, bar shapes, and plate	331200 07 1					
17	Sheet and strip	331200 17 0					
18	All other steel shapes and forms	331200 33 7					
19	Copper and copper-base alloy	331421 11 5					
20	All other nonferrous shapes and forms	331000 75 2					
21	Scrap; including iron, steel, and aluminum and aluminum-base alloy (excluding home scrap)	001900 60 4					
22	Grinding wheels and other abrasive products (excluding industrial diamonds)	327910 01 4					
23	Paperboard containers, boxes, and corrugated paperboard	322210 01 4					
24	Cost of all other materials and components, parts, containers, and supplies consumed (Specify the principal materials, etc., included in this value.)	000700 00 9		1 1			
		009700 99 8					
25	TOTAL (Should equal total reported in 😉, line A1)	771000 00 7					

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."

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.

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

Lines 32 through 39 pertain to any concentric and parallel shaft speed reducer, motor-reducer, and gearmotor products for which input and output shafts are parallel and closely aligned with each other. Known by many names, including planetaries, cycloids, and epicyclics, these may be concentric constructions or those which may incorporate any type of internal speed reduction components such as spur, helical, and bevel gear teeth, harmonic, epicyclic, cycloidal, chain, cam, etc.

· o	Products and services	Census product	Produ	cts shipped receipts	and other
Line No.	*Items correspond to products reported on Current Industrial Reports (CIR)	code	V	/alue, f.o.b.	plant
늗			\$ Bil.	Mil.	Thou.
	0734	0730	0731		
	Plain bearings, except engine				
1	Plain bearings and bushings, unmounted, machined	333613 1112 0			
2	Mounted bearings, plain	333613 1151 8			
	Clutches and brakes				
3	Friction-type	333613 3111 0			
4	Hydraulic-type (including hydraulic couplings)	333613 3213 4			
5	Other	333613 3219 1			
	Flexible couplings				
6	Gear-type	333613 3327 2			
7	Other	333613 3329 8			
8	Universal joints	333613 3756 2			
	Chains for sprocket drives				
9	Roller chain meeting any ASME or ANSI standard	333613 3444 5			
10	Other	333613 3545 9			
11	Sprockets	333613 3763 8			

CONTINUE WITH 2 ON PAGE 11

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01111 1010-3332 1	i age i
If not shown, please enter your 11-digit Census File	

0	Products and services	Cens	sus product	Produ	cts shipped receipts	
Line No.	*Items correspond to products reported on Current Industrial Reports (CIR)	00110	code	V	alue, f.o.b.	plant
를				\$ Bil.	Mil.	Thou.
	0734	0730		0731		
12	Pulleys	333	613 3767 9		1 1	
	Sheaves					
13	Single-drive	333	613 3648 1	-		
14	Multiple-drive	333	613 3649 9			
	Loose gearing, including gears, pinions, racks, and worms, sold separately (except for automobiles, buses, highway trucks, and aircraft)	i				
	Coarse pitch (diametral pitch less than 20; corresponds to circular pitch more than .157 in.)	-				
	Helical, herringbone, and spur gearing					
15	Diameter 24 in. (60.96 cm) or less, hard finished	333	612 3111 2			+++
16	Diameter 24 in. (60.96 cm) or less, other than hard finished	333	612 3113 8			
17	Diameter more than 24 in. (60.96 cm), up through 72 in. (182.88 cm)	333	612 3116 1			
18	Diameter more than 72 in. (182.88 cm)	333	612 3118 7			
19	Worms and worm gearing	333	612 3125 2			
20	Bevel gears (straight, spiral, and other)	333	612 3135 1			
21	Other types, including racks	333	612 3146 8			
	Fine pitch (diametral pitch 20 or more; corresponds to circular pitch .157 in. or less)					
22	Helical, herringbone, and spur gearing	333	612 3153 4			
23	Worms and worm gearing	333	612 3155 9			
24	Other, including bevel gears and racks	333	612 3157 5			
	Worm gear products, except worms and worm gears Worm speed reducers					
25	Single reduction, center distance less than 3 in. (7.62 cm), with C-face, flange, or scoop mount	333	612 7114 2			
26	Single reduction, center distance less than 3 in. (7.62 cm), without C-face, flange, or scoop mount	333	612 7116 7			
27	Single reduction, center distance 3 in. (7.62 cm) or more	333	612 7118 3			
28	Double or multiple reduction (worm/worm or helical/worm)	222	612 7121 7			

CONTINUE WITH ② ON PAGE 12



No.	Products and services	Census product		cts shipped receipt	s
Line No.	*Items correspond to products reported on Current Industrial Reports (CIR)	code		alue, f.o.b.	1
=			\$ Bil.	Mil.	Thou
	Worm gear products, except worms and worm gears - Continued	0730	0731		
	Right angle worm gear motors (enclosed right angle worm gear drive in common support with an electric motor, having an exclusive and dependent or "interrelated" interface design)			1 1	
29	Less than 1 horsepower (746 watts)	333612 7225 6			
30	At least 1 horsepower (746 watts)	333612 7226 4	ı		
31	Replacement parts for worm gear products (except for worms and worm gears)	333612 7329 6			
	Concentric and parallel shaft speed reducer, motor-reducer, and gearmotor products, including planetaries, cycloids, and allied products				
	Enclosed concentric and parallel shaft speed reducers and motor-reducers				
32	Output stage center distance 6 in. (15.24 cm) or less	333612 7437 7			
33	Output stage center distance greater than 6 in. (15.24 cm)	333612 7438 5	'		
	Concentric and parallel gearmotors (shaft motor-reducers; all units for which the enclosed reduction drive and electric motor have a common support and use an exclusive and dependent or "interralated" interface design)				
34	Less than 1 horsepower (746 watts)	333612 7441 9			
35	At least 1 horsepower (746 watts), up through 5 horsepower (3.73 kW)	333612 7443 5			
36	More than 5 horsepower (3.73 kW), up through 20 horsepower (14.9 kW)	333612 7445 0			
37	More than 20 horsepower (14.9 kW)	333612 7447 6			
38	Planetary, cycloidal, epicyclic, chain, and cam reducers and gearmotors .	333612 744G 6			
39	Replacement parts, all types	333612 744R 4	i i		
	Shaft-mounted speed reducers and screw conveyor drives				
40	Maximum bore of hollow shaft 2.756 in. (70 mm) or less in diameter	333612 7553 1		· 	
41	Maximum bore of hollow shaft more than 2.756 in. (70 mm) in diameter	333612 7555 6			
42	Replacement parts, all types	333612 7559 8		. '	
43	Industrial high-speed drives, fixed ratio, pitch line velocity of 5000 feet (1525 meters) per minute or more (pinion speeds of at least 3600 rpm); and replacement parts	333612 7666 1			

CONTINUE WITH **②** ON PAGE 13



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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		ets shipped receipts alue, f.o.b.	6
5	0734	0730	\$ Bil.	Mil.	Thou.
	Offset parallel shaft and right angle speed reducers Offset parallel shaft reducers (including helical, herringbone, and spur)				
4	Low-speed center 15 in. (38.10 cm) or less	333612 7771 9			
5	Low-speed center more than 15 in. (38.10 cm)	333612 7773 5			
5	Right angle, single and multiple reduction reducers (other than worm) .	333612 7776 8			
,	Replacement parts	333612 7879 0			
3	Mechanical adjustable speed drives (traction and belt variable speed changers, excluding parts and value of drivers)	333612 7983 0			
)	Parts for mechanical adjustable speed drives (traction and belt variable speed changers)	333612 7A88 6			
)	Other geared speed changers, industrial high-speed drives, and mechanical variable speed drives (gearboxes and allied products) nec, and parts	333612 7B99 1			
<u> </u>	Marine propulsion gear transmissions and drives	333613 3788 5		1 1	
2	Other mechanical power transmission equipment, nec, including ball joints, nonflexible drive shafts and couplings, etc.	333613 3792 7			
3	Parts for mechanical power transmission equipment (including mountings for bearings)	333613 3798 4		1 1	
	Construction machinery and equipment (including similar machinery used for forestry)				
	Complete units (including attachments which are themselves machinery) (Specify kind.)				
		333120 WYWW 1			
	Parts, sold separately (Specify kind.)				
5		333120 9YWV 7			
5	Ball bearings, complete, unmounted (Corresponds to value of shipments reported on CIR Form MA332Q, Antifriction Bearings, for 2002, item codes 2101 - 2155.)*	332991 1100 6			
,	Tapered roller bearings (including cups and cones), unmounted (Corresponds to value of shipments reported on CIR Form MA332Q, Antifriction Bearings, for 2002, item codes 2232 - 2234.)*	332991 3100 4			
3	Other roller bearings, ion 2002, item codes 2232 - 2234.)* Other roller bearings, unmounted (Corresponds to value of shipments reported on CIR Form MA332Q, Antifriction Bearings, for 2002, item codes 2311 - 2393.)*	332991 5100 2			
•	Mounted bearings (except plain) (Corresponds to value of shipments reported on CIR Form MA332Q, Antifriction Bearings, for 2002, item codes 2417 - 2455.)*	332991 7100 0			

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8	DETAIL OF SALES, SHIPMENTS, RECEIPTS, OR REVENUE - Continued				
Line No.	Products and services	Census product		cts shipped receipts	3
ne	*Items correspond to products reported on Current Industrial Reports (CIR)	code	i .	alue, f.o.b.	
Li	0734	0730	\$ Bil. 0731	Mil.	Thou.
60	Parts and components for ball and roller bearings (including balls and rollers, sold separately, but excluding cups and cones) (Corresponds to value of shipments reported on CIR Form MA332Q, Antifriction Bearings, for 2002, item codes 2911 - 2959.)*	332991 9100 8			
	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.				
61		18			
62		26			
63		34			
64		42			
65		59			
66		67			
	Contract work - Receipts for work done for others on their materials (Specify products worked on and kind of work.)				
67		000930 0000 8			
	Miscellaneous receipts				
68	Sales of scrap and refuse	000999 8013 8			
69	Other miscellaneous receipts (including receipts for repair work, etc.)	000999 8098 9			
70	Resales - Sales of products bought and sold without further manufacture, processing, or assembly (The cost of such items should be reported in 6 , line A2.)	000999 8900 6			
71	TOTAL (Should equal 4), line A)	770000 0000 8	1		
23	-27 Not Applicable.				



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					This activity w	as pei	rformed -		
or du	dicate activities that were performed by this establishment were performed for this establishment by another company uring 2002. Mark "X" ALL that apply.)		y this olishm		By another establishment of this company		another mpany	Not	t at a
1.	Product design/engineering	0921			8071	0941		0961	
2.	Order fulfillment								
	a. Bundling or kitting (combining multiple items into a prepackaged product)	0923			8072	0943		0963	
	b. Pick and pack (taking goods from inventory and packaging them to fill orders)	0924			8073	0944		0964	
	c. Warehousing of finished products	0925			8074	0945		0965	
	d. Breaking bulk (reducing large shipments into smaller portions for customers)	0926			8075	0946		0966	
	e. Local delivery (within a city, town, or other local area, including adjoining towns and suburban areas)	0927			8076	0947		0967	
	f. Long distance delivery (beyond local areas and commercial zones)	0928			8077	0948		0968	
	g. Processing of returned merchandise	0932			8078	0952		0972	
B. D	uring 2002 did this establishment:								
1.	Manage inventory owned by this establishment AND held at this location?	0936		Yes	3	0937	□ No)	
2.	Manage inventory owned by this establishment BUT held at a customer's location?	0956		Yes	5	0957	□ No)	
3.	Manage inventory owned by another company BUT held at this location?	0976		Yes	6	0977	□ No)	
4.	Manage inventory owned by another company AND held somewhere other than at this location?	0994		Yes	6	0995	□ No)	
5.	Contract with another firm for any of your production using materials owned by this location?	8041		Yes	6	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	8	8045	□ No)	
7.	Manufacture products for a government to their specifications?	8047		Yes	6	8048	□ No)	
8.	Manufacture products for another business to their specifications?	8016		Yes	S	8017	□ No)	
9.	Manufacture products for a final retail customer to their specifications?	8060		Yes	8	8062	□ No)	

		NIAL CTATUC												
9 OPE	RATIO	NAL STATUS												
Activ (Mar	rk "X" o	at best describes t only ONE box.)	his est	ablish	nment's stat	tus at the	e end o	f 2002						
0011	□ In	operation	0013		Temporarily	or seas	onally	inactive						
0012	□ _U	nder construction	, 0014		Ceased ope	ration - (Give da	ate at right		0018	Month	Day	Ye	ar
	ex	evelopment, or xploration	0015		Sold or leas	sed to an	other o	perator -		→				
					Give date at and mailing	t right Al	ND ent	er new nan	ne					
	0060	Name of new owner	or ope	rator			0061	Employer Id	lentificati	on Numb	er			
								Enter EIN of owner (9 dig		→	-			
	0062	Mailing address (nur	nber ar	nd stre	et, P.O. Box,	etc.)			-					
	0063	City, town, village, e	·C.						0064 St	ate 0065	ZIP Code			
		,,,												
CER	TIFICA	TION - This report	is sub	ostant	tially accurat	te and w	vas pre	pared in ac	cordanc	e with th	ne instru	ıctions.		
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