If not shown, please enter your 11-digit Census File Number from the address label on page 1

## Item 17. CONSUMPTION OF SELECTED MATERIALS DURING 1997

## INSTRUCTIONS

1. General - The materials, parts, and supplies listed below are those commonly consumed in the manufacture, processing, or assembly of the products listed in item 18B. 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 which are not listed, describe and report them in the "Cost of all other materials . . . " line 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 9700998.

Report materials, parts, and supplies purchased, transferred from other plants of your company, or withdrawn from inventory.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.
2. 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.
3. 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 item 10, line e, 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.
4. Resales - Cost for products bopgr 8 d sid or
transferred from transferred from $G^{\text {th }}$ s a 1 ments of your comany
 nem 17 below. The roe ff bese products shipped by this ectan "ist D 0 (4 Muct code 9998900 6, "Resales."
5. Produced and Consumed - Forgings, foundries, and screw machine products - Report the quantities produced and used in manufacturing other products made in this establishment in item 19. Note that the materials used to produce these items should be reported in item 17.


Item 17. CONSUMPTION OF SELECTED MATERIALS DURING 1997 - Continued


Item 18A - Not applicable to this report
Item 18B. PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1997

## INSTRUCTIONS

1. 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 item 18B. 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.
2. 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.
3. 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 product code 93000008.
4. 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 product code 9998900 6, "Resales."
5. 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 forms, the sum of the detailed CIR products should equal the total reported on this census form.

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

## If not shown, please enter your 11-digit Census File Number

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|  | Products and services <br> *Item corresponds to products reported on Current Industrial Reports (A) |  | Census product code | Products shipped and other receipts, including interplant transfers |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Value, f.o.b. plant (E) |
|  |  |  | $584$ <br> Millions | \| Thou- | | sands | Dollars |
| 1 | Ball bearings, complete, unmounted (corresponds to the sum of item codes 2101-2155 as reported on CIR Form MA35Q, Antifriction Bearings, for 1997) (35621)* |  |  | 35621002 | \$ | 1 1 |
| 2 | Tapered roller bearings (including cups and cones), unmounted (corresponds to the sum of item codes 2232-2234 as reported on CIR Form MA35Q, Antifriction Bearings, for 1997) (35622)* |  |  | 35622000 |  | 1 |
| 3 | Other roller bearings, unmounted (corresponds to the sum of item codes 2311-2393 as reported on CIR Form MA35Q, Antifriction Bearings, for 1997) (35623)* |  | 35623008 |  | 1  <br> 1 1 <br> 1 1 |
| 4 | Mounted bearings (except plain) (corresponds to the sum of item codes 2417-2455 as reported on CIR Form MA35Q, Antifriction Bearings, for 1997) (35624)* |  | 35624006 |  | 1 |
| 5 | Parts and components for ball and roller bearings (including balls and rollers, sold separately, but excluding cups and cones) (corresponds to the sum of item codes 2911-2959, as reported on CIR Form MA35Q, Antifriction Bearings, for 1997) (35629)* |  | 35629005 |  | $\begin{array}{ll}1 & 1 \\ 1 & 1 \\ 1 & 1\end{array}$ |
| 6 | PLAIN BEARINGS, EXCEPT ENGINE (35681) | Plain bearings and bushings, unmounted, machined | 35681121 |  | 1 |
| 7 |  | Mounted bearings, plain | 35681519 |  | 11  <br> 1 1 <br> 1 1 |
| 8 | Aircraft transmissions and parts |  | 37285004 |  | 1 |
| 9 | Brake parts and assemblies for automobiles, highway trucks, and buses, new (not rebuilt parts) |  | 37148004 |  | $1 \begin{array}{ll}1 \\ 1\end{array}$ |
| 10 | Drive train components for automobiles, highway trucks, and buses, except wheels, brakes, and rebuilt products |  | 37146008 |  | $\begin{array}{ll}1 & 1 \\ 1 & 1 \\ 1 & 1\end{array}$ |
| 11 | Other parts and accessories for automobiles, highway trucks, and buses, including wheels, gasoline engines, and rebuilt products - Specify kind |  | 37140001 |  | ! |

NOTE: Lines 12 through 62 pertain to products NOT for use with automobiles, buses, highway trucks, or aircraft.

| 12 | $\begin{aligned} & \hline \text { CLUTCHES } \\ & \text { AND } \\ & \text { BRAKES } \end{aligned}$ | Friction-type |  |  | 35683119 | । | I |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 13 |  | Hydraulic-type (including hydraulic couplings) |  |  | 35683135 | । |  |
| 14 |  | Other |  |  | 35683192 | 1 | , |
| 15 | FLEXIBLE COUPLINGS | Gear-type |  |  | 35683200 | । |  |
| 16 |  | Other |  |  | 35683234 | । | \| |
| 17 | Universal joints |  |  |  | 35683259 | ! | , |
| $\begin{array}{\|c\|} 18 \\ \hline 19 \end{array}$ | CHAINS FOR SPROCKET DRIVES | Roller chain meeting any ASME or ANSI standard |  |  | 35683333 | 1 |  |
|  |  | Other |  |  | 35683358 | । | I |
| 20 | Sprockets |  |  |  | 35683440 | 1 |  |
| 21 | Pulleys |  |  |  | 35683515 | । | , |
| 22 | SHEAVES | Single-drive |  |  | 35683614 | । | । |
|  |  | Multiple-drive |  |  | 35683655 | । | I |
| 24 | Loose Gearing, Including Gears, Pinions, Racks, and Worms, Sold Separately (Except for automobiles, buses, highway trucks, and aircraft) | COARSE PITCH <br> (Diametral pitch less than 20; corresponds to circular pitch more than .157") | Helical, herringbone, and spur gearing | Diameter 24" $(60.96 \mathrm{~cm})$ or less, hard finished | 35663111 | 1 |  |
| 25 |  |  |  | Diameter 24 " ( 60.96 cm ) or less, other than hard finished | 35663137 | $!$ | , |
| 26 |  |  |  | Diameter more than 24 " ( 60.96 cm ), up through 72" ( 182.88 cm ) | 35663160 | ! | ! |
| 27 |  |  |  | Diameter more than 72" (182.88 cm) | 35663186 | 1 | 1 |
| 28 |  |  | Worms and worm gearing |  | 35663251 | । | ! |
| 29 |  |  | Bevel gears (straight, spiral, and other) |  | 35663350 | । | , |
| 30 |  |  | Other types, including racks |  | 35663467 | 1 |  |

CONTINUE ON PAGE 8


NOTE: Lines 41 through 48 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.


| ENCLOSED CONCENTRIC AND PARALLEL SHAFT SPEED | Output stage center distance 6" (15.24 cm) or less | 35667377 | 1 | ! |
| :---: | :---: | :---: | :---: | :---: |
| REDUCERS AND MOTORREDUCERS | Output stage center distance greater than 6" (15.24 cm) | 35667385 | ! | ! |
| CONCENTRIC AND PARALLEL GEARMOTORS (Shaft motorreducers; 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) | Less than 1 horsepower (746 watts) | 35667419 | ! | ! |
|  | At least 1 horsepower ( 746 watts), up through 5 horsepower ( 3.73 kW ) | 35667435 | ! | ! |
|  | More than 5 horsepower ( 3.73 kW ), up through 20 horsepower (14.9 kW) | 35667450 | ! | ! |
|  | More than 20 horsepower ( 14.9 kW ) | 35667476 | ! | 1 |
| Planetary, cyclo | dal, epicyclic, chain, and cam reducers and gearmotors | 35667484 | \| | ! |
| Replacement pa | rts, all types | 35667492 | 1 | ! |

## If not shown, please enter your 11-digit Census File Number

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Item 18B. PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1997 - Continued



Item 19. SELECTED PRODUCTS PRODUCED IN THIS ESTABLISHMENT AND USED IN MANUFACTURING OTHER PRODUCTS MADE IN THIS ESTABLISHMENT

## INSTRUCTIONS

1. Report below the quantity of each listed item produced in this establishment and used in manufacturing other products made in this establishment.
2. Purchases or receipts of the items specified below should be reported only in item 17.
3. Materials used to produce the items specified below should be reported in item 17.
4. Quantities produced for sale as such and not for incorporation in other products should be reported in item 18B.
5. Report quantities in the unit of measure specified in column (D).

| Census code | Was perfo esta du | eration at this ent 97? | Unit of measure for quantities <br> (D) | Quantities produced in this establishment and used in manufacturing other products made in this establishment |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 591 (B) | Yes | No |  | 593 | (E) |
| 10017 | $1 \square$ | $2 \square$ | Short tons |  |  |
| 10025 | $1 \square$ | $2 \square$ |  |  |  |
| 10033 | $1 \square$ | $2 \square$ |  |  |  |
| 10041 | $1 \square$ | $2 \square$ | Thousand pounds |  |  |
| 10058 | $1 \square$ | $2 \square$ |  |  |  |
| 10066 | $1 \square$ | $2 \square$ |  |  |  |
| 10074 | $1 \square$ | $2 \square$ |  |  |  |

Items 20 and 21 - Not applicable to this report
REMARKS - Please use this space for any explanations that may be essential in understanding your reported data.

Item 22. CERTIFICATION - This report is substantially accurate and has been prepared in accordance with instructions.


