

# CURRENT INDUSTRIAL REPORTS SERIES

2008

## MQ333W — METALWORKING MACHINERY

### DEFINITIONS AND SPECIAL INSTRUCTIONS

#### 1. Scope of survey

This survey covers all United States companies engaged in the manufacture of new and remanufactured industrial type metal cutting/removal and metal forming types of metalworking machinery, including numerical control type (Sections I and II). Rebuilt machines are not collected on this survey.

#### 2. Figures to be reported

Companies with more than one establishment manufacturing the products covered by this survey are requested to complete a separate report form for each location. If you have not received a separate form for each of your establishments, call the contact shown on the report form or write to the U.S. Census Bureau for additional forms.

#### QUANTITY AND VALUE OF SHIPMENTS

The figures on quantity and value of shipment should include the physical shipments of all products sold, transferred to other establishments within your company, or shipped on consignment, whether for domestic or export sale. The value represents the net sales price, f.o.b. plant, to the customer or branch to which the products are shipped, net of discounts, allowances, freight charges, and returns. Assign shipments to your own branches the same value as comparable sales to unaffiliated customers, i.e., the value includes an appropriate allocation of company overhead and profit. Do not include in shipments products bought and resold without further manufacture.

#### VALUE OF EXPORT SHIPMENTS

For purposes of this report, domestic includes shipments to destinations within the 50 States, the District of Columbia, Puerto Rico, and the Virgin Islands, as well as to the U.S. Armed Forces abroad for their own use. All other shipments are exports. Report the value of export shipments by type of machine.

#### VALUE OF UNFILLED ORDERS

Report the dollar value of orders received (for domestic and export) which have not passed through your sales accounts at the end of each quarter. Unfilled orders at the end of the quarter are equal to unfilled orders at the beginning of the quarter, plus net new orders received during the quarter, minus net sales.

#### BY VALUE OF MACHINE

Separate machines which are valued at less than \$3,025 each from machines valued at \$3,025 or more.

#### EXAMPLE:

Report all drilling machines valued at less than \$3,025 each with item code 1205, "All drilling machines valued under \$3,025 each."

Report drilling machines valued at \$3,025 or more each by the specific type of machine designated under item codes 1215 through 1265.

See Reference List, page 3. Do not combine machines valued at less than \$3,025 with machines valued at \$3,025 or more.

#### SHIPMENTS OF MACHINES EQUIPPED WITH NUMERICAL CONTROLS (NC)

In addition to including the shipments of metalworking machines equipped with numerical controls with total machines shipped, also report data on numerical control type machines separately in columns 4 and 5 immediately following the total for each type of machine. The value of machine tools equipped with numerical controls should include the value of the controls.

#### LEASED MACHINES

For products leased or rented by your company, report the number and estimated values. The estimate should approximate the value of the products sold outright. If no such prices exist, base the value on the assessment placed on these items for tax, insurance, or similar purposes.

#### SUBCONTRACT WORK

Include in the report complete products manufactured for you by others on a subcontract basis. Exclude complete machines produced by you for others on a subcontract basis, unless manufactured for an affiliated company.

#### IMPORTED OR ASSEMBLED COMPONENTS

Do not report on this survey if:

- The products you shipped were imported complete or machined for assembly.
- The products you shipped were imported as subassemblies purchased and not machined further or large parts which required minimal assembly with hand tools and no metalworking.

Report on this survey if:

- Parts for your products were imported and the assembly and fabrication consisted of metal working or further machining.
- Your establishment possesses the complete product design and performs in-house machining.

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DEFINITIONS AND SPECIAL INSTRUCTIONS — Continued

## 3. Definitions

### MACHINE TYPES

Metal cutting/removal type machine tools — These are defined as new, power driven, complete machine tools, not supported in the hands of an operator when in use. They are used for removing metal in the form of chips, vapor, or slag. Also included are honing machines, lapping machines, grinders, and machines which cut using electrical, laser, or waterjet techniques.

Exclude small, low-priced, machine tools of light construction such as lathes; drilling, grinding, and milling machines; and polishing and buffing machines designed primarily for home workshops, etc. Also exclude all woodworking or primarily woodworking type machines.

Metal forming type machine tools — These are defined as new, power driven, complete machine tools, not supported in the hands of an operator when in use. They are used to press, forge, emboss, hammer, extrude, blank, spin, shear, die cast, bend metal, compacting powdered metal, tape laying, and printing metal.

### "ALL OTHER" CLASSIFICATIONS

The last item of most major product categories is an "all other" or "miscellaneous" group. Whenever possible, classify your products under the more specific heading which most nearly describes them. Classify them as "all other" only when a more specific description does not apply. Describe the products that you classify as "all other" in sufficient detail to permit identification. This may be done on a separate sheet of paper.

### TYPES OF NUMERICALLY CONTROLLED MACHINES

Positioning — These are defined as machines equipped with "positioning" numerical control systems activated by direct data input (DNC) or manual data input (MDI).

Report in this group all machines that have been equipped with control systems in which point-to-point positioning and cutting or forming (regardless of the number of movement "axes" or auxiliary functions) are controlled automatically by means of numerical programs inserted into the systems.

Classify as "continuous path," machines equipped with a control system that permits "positioning" and "continuous path" operations.

Continuous path or computer numerical control — These are defined as machines equipped with "continuous path" numerical program control systems activated by direct data input (CNC) or manual data input (MDI).

Report in this group all machines equipped with control systems in which, in addition to point-to-point positioning, the path of cutting is also automatically controlled by means of numerical programs inserted into the systems.

Classify as "continuous path," machines equipped with a control system that permits "positioning" and "continuous path" operations.

Digital readout systems including dial or plugboard — These are defined as machines equipped with digital readout systems or dial or plugboard type of prerecorded motion programs control systems.

Report in this group all machines equipped with control systems in which "positioning" or "continuous path" are automatically commanded by numerical programs fed into the system by an operator through dials, plugs, switches, or any other numerical method.

### REMANUFACTURED MACHINE TOOLS

The basic machine carcass is reused with most of the iron retained. All possible modern improvements are incorporated. Ball screws and servo drives replace gear boxes and lead screws. Headstocks are driven by AC vector drive motors, and gears and range changes are reduced or eliminated. Position feedback may be added, as may CNC or PC controls. All of the electrics are replaced. The end product is superior to the original product when it left the factory as new.

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## DEFINITIONS AND SPECIAL INSTRUCTIONS – Continued

### 4. Comparability

If you also report in the Annual Survey of Manufactures (Form MA-10000), the sum of values for item codes shown in column (a) should correspond to the dollar values reported under product class codes indicated in column (b) below:

Current Industrial Reports (Form MQ333W)  Item code (a)	Annual Survey of Manufactures  Product class code (b)
1125 through 1265	333512A pt
1991	3335121 pt
2010 through 2740	3335122
2801 through 2812	3335123
2920 through 3102	
3309 through 3500	3335124
3721 through 3736	3335127
3820	3335128
3840 through 4630	3335129
5009 through 5270	3335131
5409 through 6305	3335133
6625 through 7173	3335135
4700	3335126
7200	3335137

pt = part

# CURRENT INDUSTRIAL REPORTS SERIES

## REFERENCE LIST

FORM MQ333W		
METALWORKING MACHINERY		
Product code	Item code	Item description
		SECTION I – METAL CUTTING/REMOVAL TYPE MACHINE TOOLS
		BORING MACHINES (excluding Machining Centers) and DRILLING MACHINES (excluding Machining Centers)
		Machines valued at \$3,025 each or more (excluding laser type)
333512A103	1125	Horizontal boring, drilling, and milling machines. Includes floor, table and rail mounted, and all other boring machines (excluding boring lathes)
333512A105	1140	Precision and jig boring machines (including horizontal and vertical boring machines)
333512A111	1205	All drilling machines valued under \$3,025 each
		Machines valued at \$3,025 each or more (excluding laser type)
333512A113	1215	Vertical – (upright) drilling machines (including plain-upright and heavy duty)
333512A117	1235	Deep hole drilling machines
333512A120	1250	Multiple spindle drilling machines (cluster of spindles driven from one central power unit)
333512A123	1265	All other drilling machines (including sensitive, vertical and radial)
XXX	1295	Total boring and drilling machines (Sum of item codes 1125–1265)
		GEAR CUTTING MACHINES
3335121200	1991	Gear cutting machines includes: gear hobbers, shapers, teeth finishing, bevel gear generators, and all other gear cutting machines
		GRINDING, POLISHING, BUFFING, HONING, AND LAPPING MACHINERY (excluding gear-tooth grinding, lapping, polishing, honing, and buffing machines)
3335122101	2010	All grinding, polishing, buffing, honing, and lapping machines valued under \$3,025 each
		Machines valued at \$3,025 each or more
3335122110	2050	External cylindrical grinding machines
3335122120	2100	Internal cylindrical grinding machines
3335122122	2146	Surface grinding machines
3335122136	2225	All other disc grinders, bench, floor, snag, double spindle grinders, and abrasive belt grinders
3335122142	2328	Tool, cutter, and drill point grinding machines (including universal and special)

# CURRENT INDUSTRIAL REPORTS SERIES

## REFERENCE LIST — Continued

FORM MQ333W		
Product code	Item code	Item description
Section I — METAL CUTTING/REMOVAL TYPE MACHINE TOOLS — Continued		
GRINDING, POLISHING, BUFFING, HONING, AND LAPPING MACHINERY (excluding gear-tooth grinding, lapping, polishing, honing, and buffing machines)– Continued		
Machines valued at \$3,025 each or more – Continued		
3335122151	2430	All other grinding machines (including planer type, thread grinding, and deburring machines)
3335122156	2530	Honing and lapping machines except gear-tooth honing and lapping Internal (including combination bore-hone and external) (excluding flat surface lapping machines)
3335122161	2579	Flat surface lapping machines (excluding gear lapping)
3335122166	2740	Polishing and buffing machines including speed lathes and multi-station type
XXX	2790	Total grinding, polishing, buffing, honing, and lapping machines (excluding gear-tooth, grinding, lapping, polishing, and buffing machines) (Sum of item codes 2010–2740)
LATHES (TURNING MACHINES)		
3335123131	2801	All lathes valued under \$3,025 each Machines valued at \$3,025 each or more
NUMERICALLY CONTROLLED TURNING MACHINES:		
Horizontal Spindle		
Single spindle:		
PLEASE NOTE: Each machine may not conform to all the criteria of any one subgroup. The criteria are ranked in order of importance to help indicate the proper subgroup classification. Determine horsepower by name plate listing.		
3335123107	2807	Chuck size: Less than 10" Horsepower: 25 and under Swing: 18" and under Spindle nose: A-8" and under
3335123116	2809	Chuck size: 10" to less than 15" Horsepower: 25–50 Swing: 18"–25" Spindle nose: A-8"–11"
3335123127	2812	Chuck size: 15" and over Horsepower: 50 and over Swing: 25" and over Spindle nose: 15" and over And all multiple spindle NC turning machines (excluding those with opposing powered subspindles) (classified as single spindle)

# CURRENT INDUSTRIAL REPORTS SERIES

## REFERENCE LIST — Continued

FORM MQ333W		
Product code	Item code	Item description
		Section I — METAL CUTTING/REMOVAL TYPE MACHINE TOOLS — Continued Machines valued at \$3,025 each or more—Continued NUMERICALLY CONTROLLED TURNING MACHINES—Continued: Horizontal Spindle—Continued Total horizontal NC turning machines (Sum of item codes 2807–2812) Vertical Spindle Vertical spindle lathes, boring, and turning machines
XXX	2815	
3335123126	2920	
3335123134	3102	NON-NUMERICALLY CONTROLLED TURNING MACHINES VALUED AT \$3,025 EACH OR MORE
		MILLING MACHINES (excluding "Machining Centers")
3335124101	3309	All milling machines valued under \$3,025 each
3335124125	3500	All milling machines valued at \$3,025 each or more
XXX	3691	Total milling machines (Sum of item codes 3309–3500)
		OTHER METAL CUTTING/REMOVAL MACHINE TOOLS
		Machining Centers (Multi-function NC Machines)
3335127101	3721	Drill, Mill, Bore — VERTICAL (Automatic Tool Change) "Y" axis travel less than 20"
3335127106	3722	"Y" axis travel 20" through 26"
3335127111	3723	"Y" axis travel over 26"
3335127112	3724	Drill, Mill, Bore — HORIZONTAL (Automatic Tool Change) Under 500mm pallet
3335127113	3725	500mm-800mm pallet
3335127114	3726	Over 800mm pallet
3335127146	3736	All other machining centers (including special machining centers, special adapting of standard machining centers, and machining centers with indexing turret)
XXX	3737	Total machining centers (Sum of item codes 3721–3736)
		Station Type Machines
3335128101	3821	Dial or rotary, trunnion, and center column
3335128106	3823	Transfer (free, palletized, shuttle)
3335128111	3825	Other station type
XXX	3831	Total station type machines (Sum of item codes 3821–3825)

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## REFERENCE LIST – Continued

FORM MQ333W		
Product code	Item code	Item description
Section I – METAL CUTTING/REMOVAL TYPE MACHINE TOOLS–Continued		
OTHER METAL CUTTING/REMOVAL MACHINE TOOLS–Continued		
3335129101	3840	Other metal cutting machine tools valued under \$3,025  Machines valued at \$3,025 each or more
3335129106	3850	Broaching machines (including internal surface and all other broaching machines)  Sawing and cut-off machines
3335129122	4181	Band saws
3335129123	4183	Vertical
3335129126	4196	Horizontal
All other sawing and cut-off machines (including contour sawing and filing)		
3335129131	4619	Spark erosion, ultrasonic, and electrolytic machines
3335129134	4628	Water Jet cutting machines
3335129135	4629	Laser cutting machines
3335129136	4630	All Other metal cutting machine tools (including rifling, centering, key-seating, pointing, chamfering, facing, shaving, grooving, counter-sinking, skiving, reaming, screw and nut slotting machines, threading, tapping, planers, shapers, and plasma cutting machines.
XXX	4691	Total other metal cutting machine tools (excluding station type and machining centers) (Sum of item codes 3840–4630)
3335126111	4700	REMANUFACTURED METAL CUTTING MACHINE TOOLS
Section II – METAL FORMING TYPE MACHINE TOOLS		
PUNCHING AND SHEARING MACHINES		
3335131101	5009	All punching and shearing machines valued under \$3,025 each  Machines valued at \$3,025 each or more
POWER OPERATED ONLY		
3335131106	5019	Punches (including combination punching and shearing machines)
3335131111	5025	Punching machines (fixed position and two axes positioning table)  Plate shearing machines (squaring, slitting, etc.)
3335131116	5031	Mechanical
3335131121	5032	Hydraulic
3335131126	5085	Other power operated punching and shearing machines

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## REFERENCE LIST — Continued

FORM MQ333W		
Product code	Item code	Item description
		Section II — METAL FORMING TYPE MACHINE TOOLS—Continued
		BENDING AND FORMING MACHINES — Power operated
3335131131	5109	All bending and forming machines valued under \$3,025 each
		Machines valued at \$3,025 each or more
3335131136	5112	Press brakes
3335131145	5222	Roll bending machines (including sheet, plate, angles, bars, shapes, and tubes) rotary bending and forming machines
3335131161	5270	Other bending and forming machines (including folders, slide bending machines, and hydroforming machines).
XXX	5291	Total punching, shearing, bending, and forming machines (Sum of item codes 5009–5270)
		PRESSES (excluding forging presses and die stamping presses)
3335133101	5409	All presses valued under \$3,025 each
		Machines valued at \$3,025 each or more
		MECHANICAL PRESSES
3335133109	5427	Gap or C-frame
3335133136	5830	Presses, strip or coil fed
3335133143	5865	Vertical, automatic, and other mechanical presses (including end wheel type, bulldozer, double and triple action, and transfer fed presses, four point and knuckle joint) (excluding automated lines of standard equipment)
		HYDRAULIC PRESSES (metalworking only)
		Vertical single action, all tonnages
3335133146	5961	Housing or straight side type
3335133151	5962	Column type (open rod)
		Gap or C-frame
3335133156	6131	15 tons and under
3335133161	6132	16 tons–35 tons
3335133166	6133	Over 35 tons
3335133171	6305	Other hydraulic and pneumatic presses (including horizontal)
XXX	6321	Total presses, excluding forging (Sum of item codes 5409–6305)
		ALL OTHER METAL FORMING TYPE MACHINE TOOLS
3335135101	6540	All other metal forming type machine tools valued under \$3,025



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## REFERENCE LIST – Continued

FORM MQ333W

Product code	Item code	Item description
		Section II – METAL FORMING TYPE MACHINE TOOLS – Continued
		Machines valued at \$3,025 each or more
3335135118	6625	Forging machines (including forging presses and die stamping presses), and die casting machines
3335135121	6779	Riveting machines (excluding hand held portable types)
3335135126	7173	All other metal forming type machine tools (including spin forming, stretch forming, extrusion, compacting powdered metal, tape laying, and printing metal).
XXX	7191	Total all other metal forming type machine tools (Sum of item codes 6540–7173)
3335137121	7200	REMANUFACTURED METAL FORMING MACHINE TOOLS

NOTES:

**REPORT FOR 2nd QUARTER 2008**

U.S. DEPARTMENT OF COMMERCE  
BUREAU OF THE CENSUS  
FORM **MQ333W**  
**CURRENT INDUSTRIAL REPORTS**

METALWORKING MACHINERY  
{SHIPMENTS AND UNFILLED ORDERS}

If you have questions regarding this report form please contact:  
RACHEL HORWITZ EXT 2  
1(800)201-4647

**EMPLOYER IDENTIFICATION (EI) NUMBER.** Identification number used on Employer's Quarterly Federal Tax Return (U.S. Treasury Department Form 941) (**Enter if not shown, correct if wrong.**)

**CONTACT PERSON** (Enter information if not shown, correct if wrong.)  
Name ATTN: Controller  
  
Area code      Number  
  
Fax number

The 8-digit number that appears above indicates that the Office of Management and Budget has approved this survey. If that number is not displayed, do not complete this form. **YOUR RESPONSE IS REQUIRED BY LAW** (Title 13, United States Code). By section 9 of the same law, **YOUR REPORT IS CONFIDENTIAL**. It may be seen only by persons sworn to uphold the confidentiality of Census Bureau information and may be used only for statistical purposes. The law also provides that copies retained in your files are immune from legal process.

**In correspondence pertaining to this establishment's report, please refer to the 11 digit Identification Number (ID) 89101051910**



ID 89101051910 526 00 0802 13 MQ333W  
40 2008Q2 MQ333W

SEQ: 1

ATTN: Controller  
DUMMY

NULL  
SUITLAND MD 11111

(Please correct any error in name and address including ZIP Code)

Enter or correct email address: [ \_\_\_\_\_ ]

**PART I FOR EACH ITEM LISTED BELOW, ENTER FIGURES OR "0" for current period. (The figures shown in the shaded areas were reported for the previous two periods.) PLEASE REFER TO THE INSTRUCTIONS BEFORE COMPLETING THIS REPORT FORM.**

Item (Product code - Description)	Item code	Report period	TOTAL MACHINES, DOMESTIC AND EXPORT						
			Shipments		Unfilled orders	Shipments of		Shipments	
			No. of units	Value {\$1,000}	End of Quarter Value {\$1,000}	numerically controlled machines only	Value {\$1,000}	Export only Value {\$1,000}	
			1	2	3	4	5	6	
* PLEASE REFER TO INSTRUCTION MANUAL FOR COMPLETE ITEM DESCRIPTIONS									
333512A103-Horiz. boring, drilling & milling mach., \$3,025 ea. or more: incl. floor, table & rail mounted	1125	2 QTR							
		1 QTR							
		4 QTR							
333512A105-Precision and jig boring mach.incl. horiz. & vert. boring machines \$3,025 each or more	1140	2 QTR							
		1 QTR							
		4 QTR							
333512A111-All drilling machines valued under \$3,025 each, excl. machining centers	1205	2 QTR							
		1 QTR							
		4 QTR							

\* Figures not received when form was prepared. PLEASE ENTER, if not previously submitted.

**CURRENT INDUSTRIAL REPORTS - Continued**

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**PART I - Continued**

Item (Product code - Description)	Item code	Report period	TOTAL MACHINES, DOMESTIC AND EXPORT					
			Shipments		Unfilled orders	Shipments of numerically controlled machines		Shipments of Export only
			No. of units	Value {\$1,000}	End of Quarter Value {\$1,000}	only		Value {\$1,000}
			1	2	3	4	5	6
333512A113-Vert. upright drilling mach., incl. plain-upright & heavy duty, \$3,025 ea. or more	1215	2 QTR						
		1 QTR						
		4 QTR						
333512A117-Deep hole drilling machines, \$3,025 each or more	1235	2 QTR						
		1 QTR						
		4 QTR						
333512A120-Multiple spindle-drilling mach., {cluster of spindles driven from one central power unit}	1250	2 QTR						
		1 QTR						
		4 QTR						
333512A123-All other drilling mach. incl. sensitive, vert, radial, \$3,025 ea. or more	1265	2 QTR						
		1 QTR						
		4 QTR						
X X X -Total boring and drilling machines {sum of codes 1125-1265}	1295	2 QTR						
		1 QTR						
		4 QTR						
3335121200-Gear cutting machines {see manual for inclusions}	1991	2 QTR						
		1 QTR						
		4 QTR						
3335122101-Grinding, polishing, buffing, honing, & lapping machines, ex. gear-tooth type, under \$3,025 each	2010	2 QTR						
		1 QTR						
		4 QTR						
3335122110-External cylindrical grinding machines	2050	2 QTR						
		1 QTR						
		4 QTR						
3335122120-Internal cylindrical grinding machines	2100	2 QTR						
		1 QTR						
		4 QTR						
3335122122-Surface grinding machines	2146	2 QTR						
		1 QTR						
		4 QTR						

**CURRENT INDUSTRIAL REPORTS - Continued**

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**PART I - Continued**

Item (Product code - Description)	Item code	Report period	TOTAL MACHINES, DOMESTIC AND EXPORT					
			Shipments		Unfilled orders End of Quarter	Shipments of numerically controlled machines		Shipments Export only
			No. of units	Value {\$1,000}		No. of units	Value {\$1,000}	
1	2	3	4	5	6			
3335122136-All other disc grinders, bench, floor, snag, double spindle, abrasive belt grinders, \$3,025 ea or more	2225	2 QTR						
		1 QTR						
		4 QTR						
3335122142-Tool, cutter, and drill point grinding machines {incl. universal & special} \$3,025 ea or more	2328	2 QTR						
		1 QTR						
		4 QTR						
3335122151-All other grinding mach. {see manual for inclusions}, \$3,025 ea or more	2430	2 QTR						
		1 QTR						
		4 QTR						
3335122156-Honing & lapping mach. exc. gear type-internal incl. comb. bore-hone & external, \$3,025 each or more	2530	2 QTR						
		1 QTR						
		4 QTR						
3335122161-Flat surface lapping machines, excl. gear lapping, valued at \$3,025 ea. or more	2579	2 QTR						
		1 QTR						
		4 QTR						
3335122166-Polishing & buffing machines {see manual} \$3,025 each or more	2740	2 QTR						
		1 QTR						
		4 QTR						
X X X -Total grind., polishing, buffing, honing & lapping mach. exc. gear-tooth type {sum of codes 2010-2740}	2790	2 QTR						
		1 QTR						
		4 QTR						
3335123131-All lathes {turning machines} valued under \$3,025 each	2801	2 QTR						
		1 QTR						
		4 QTR						
3335123107-NC turning machines, horizontal spindle, chuck size less than 10" {\$3,025 ea. or more}	2807	2 QTR						
		1 QTR						
		4 QTR						
3335123116-NC turning machines, horiz. spindle, chuck size 10" to less than 15" {\$3,025 ea. or more}	2809	2 QTR						
		1 QTR						
		4 QTR						

**CURRENT INDUSTRIAL REPORTS - Continued**

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**PART I - Continued**

Item (Product code - Description)	Item code	Report period	TOTAL MACHINES, DOMESTIC AND EXPORT					
			Shipments		Unfilled orders End of Quarter Value {\$1,000}	Shipments of numerically controlled machines only		Shipments Export only Value {\$1,000}
			No. of units 1	Value {\$1,000} 2		No. of units 4	Value {\$1,000} 5	
3335123127-NC turning machines, horiz. spindle chuck size 15" & over, multi spindle	2812	2 QTR						
		1 QTR						
		4 QTR						
X X X -Total lathes, horiz. numerically controlled turning machines {sum of codes 2807-2812}	2815	2 QTR						
		1 QTR						
		4 QTR						
3335123126-NC vertical spindle lathes, boring & turning machines, \$3,025 ea. or more	2920	2 QTR						
		1 QTR						
		4 QTR						
3335123134-Non-numerically controlled turning machines valued at \$3,025 each or more	3102	2 QTR				XXXXX	XXXXX	
		1 QTR				XXXXX	XXXXX	
		4 QTR				XXXXX	XXXXX	
3335124101-All milling machines valued under \$3,025 each, excluding machining centers	3309	2 QTR						
		1 QTR						
		4 QTR						
3335124125-All milling machines valued at \$3,025 each or more, excluding machining centers	3500	2 QTR						
		1 QTR						
		4 QTR						
X X X -Total milling machines excl. machine centers {sum of codes 3309-3500}	3691	2 QTR						
		1 QTR						
		4 QTR						
3335127101-Machining centers; drill, mill, bore-VERTICAL, Y axis travel less than 20 inches	3721	2 QTR						
		1 QTR						
		4 QTR						
3335127106-Machining centers; drill, mill, bore-VERTICAL, Y axis travel 20 - 26 inches	3722	2 QTR						
		1 QTR						
		4 QTR						
3335127111-Machining centers; drill, mill, bore-VERTICAL, Y axis travel over 26 inches	3723	2 QTR						
		1 QTR						
		4 QTR						

**CURRENT INDUSTRIAL REPORTS - Continued**

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**PART I - Continued**

Item (Product code - Description)	Item code	Report period	TOTAL MACHINES, DOMESTIC AND EXPORT					
			Shipments		Unfilled orders End of Quarter	Shipments of numerically con- trolled machines		Shipments Export only
			No. of units	Value {\$1,000}	Value {\$1,000}	No. of units	Value {\$1,000}	Value {\$1,000}
			1	2	3	4	5	6
3335127112-Machining centers; drill, mill, bore - HORIZ. Under 500mm pallet and smaller	3724	2 QTR						
		1 QTR						
		4 QTR						
3335127113-Machining centers; drill, mill, bore - HORIZ. 500mm - 800mm pallet	3725	2 QTR						
		1 QTR						
		4 QTR						
3335127114-Machining centers; drill, mill, bore - HORIZ. Over 800mm pallet	3726	2 QTR						
		1 QTR						
		4 QTR						
3335127146-All other machining centers {see manual for inclusions}	3736	2 QTR						
		1 QTR						
		4 QTR						
X X X -Total machining centers {sum of codes 3721-3736}	3737	2 QTR						
		1 QTR						
		4 QTR						
3335128101-Station type machines dial or rotary, trunnion & center column	3821	2 QTR						
		1 QTR						
		4 QTR						
3335128106-Station type machines transfer {free, palletized, shuttle}	3823	2 QTR						
		1 QTR						
		4 QTR						
3335128111-Other station type metal cutting machine tools	3825	2 QTR						
		1 QTR						
		4 QTR						
X X X -Total station type machines {sum of codes 3821-3825}	3831	2 QTR						
		1 QTR						
		4 QTR						
3335129101-Other metal cutting machine tools, valued under \$3,025	3840	2 QTR						
		1 QTR						
		4 QTR						

**CURRENT INDUSTRIAL REPORTS - Continued**

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**PART I - Continued**

Item (Product code - Description)	Item code	Report period	TOTAL MACHINES, DOMESTIC AND EXPORT					
			Shipments		Unfilled orders	Shipments of		Shipments
			No. of units	Value {\$1,000}	End of Quarter Value {\$1,000}	numerically controlled machines only	Export only	
			1	2	3	4	5	6
3335129106-Broaching machines, incl. internal & surface, \$3,025 each or more	3850	2 QTR						
		1 QTR						
		4 QTR						
3335129122-Sawing & cut-off machines: vertical band saws valued at \$3,025 each or more	4181	2 QTR						
		1 QTR						
		4 QTR						
3335129123-Sawing & cut-off machines: horizontal band saws valued at \$3,025 each or more	4183	2 QTR						
		1 QTR						
		4 QTR						
3335129126-All other sawing & cut-off machines {include contour sawing & filing}, \$3,025 ea or more	4196	2 QTR						
		1 QTR						
		4 QTR						
3335129131-Spark erosion, ultrasonic & electrolytic mach., \$3,025 ea or more	4619	2 QTR						
		1 QTR						
		4 QTR						
3335129134-Water jet cutting machines	4628	2 QTR						
		1 QTR						
		4 QTR						
3335129135-Laser cutting machines	4629	2 QTR						
		1 QTR						
		4 QTR						
3335129136-All other metal cutting machine tools {see manual for inclusions}, \$3,025 ea or more	4630	2 QTR						
		1 QTR						
		4 QTR						
X X X -Total other metal cutting machine tools {sum of codes 3840-4630}	4691	2 QTR						
		1 QTR						
		4 QTR						
3335126111-Remanufactured metal cutting machine tools	4700	2 QTR						
		1 QTR						
		4 QTR						

**CURRENT INDUSTRIAL REPORTS - Continued**

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**PART I - Continued**

Item (Product code - Description)	Item code	Report period	TOTAL MACHINES, DOMESTIC AND EXPORT					
			Shipments		Unfilled orders	Shipments of		Shipments
			No. of units	Value {\$1,000}	End of Quarter Value {\$1,000}	numerically controlled machines only	Export only	
			1	2	3	4	5	6
3335131101-All punching and shearing machines valued under \$3,025 each	5009	2 QTR						
		1 QTR						
		4 QTR						
3335131106-Punches, incl. comb. punching & shearing mach., power operated, \$3,025 ea or more	5019	2 QTR						
		1 QTR						
		4 QTR						
3335131111-Punching mach. fixed position & 2-axes positioning table, power operated, \$3,025 ea or more	5025	2 QTR						
		1 QTR						
		4 QTR						
3335131116-Mechan. plate shearing machines {squaring, slitting etc}, power operated, \$3,025 ea or more	5031	2 QTR						
		1 QTR						
		4 QTR						
3335131121-Hydraulic plate shearing mach.{squaring, slitting etc}, power operated, \$3,025 ea or more	5032	2 QTR						
		1 QTR						
		4 QTR						
3335131126-Other power operated punching and shearing machines, \$3,025 ea or more	5085	2 QTR						
		1 QTR						
		4 QTR						
3335131131-All bending and forming machines valued under \$3,025 each	5109	2 QTR						
		1 QTR						
		4 QTR						
3335131136-Bending and forming machines, press brakes, \$3,025 ea or more	5112	2 QTR						
		1 QTR						
		4 QTR						
3335131145-Roll bending mach. incl. sheet, plate, angles, bars, shapes, & tubes {see manual}	5222	2 QTR						
		1 QTR						
		4 QTR						
3335131161-Other bending & forming machines valued at \$3,025 ea or more {see manual for inclusions}	5270	2 QTR						
		1 QTR						
		4 QTR						



**CURRENT INDUSTRIAL REPORTS - Continued**

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**PART I - Continued**

Item (Product code - Description)	Item code	Report period	TOTAL MACHINES, DOMESTIC AND EXPORT					
			Shipments		Unfilled orders	Shipments of	Shipments	
			No. of units	Value {\$1,000}	End of Quarter Value {\$1,000}	numerically controlled machines only	Export only	
			1	2	3	4	5	6
X X X -Total punching, shearing, bending & forming mach. {sum of 5009-5270}	5291	2 QTR						
		1 QTR						
		4 QTR						
3335133101-All presses valued under \$3,025 each	5409	2 QTR						
		1 QTR						
		4 QTR						
3335133109-Mechan. presses-open back inclinable {Gap or C-type}	5427	2 QTR						
		1 QTR						
		4 QTR						
3335133136-Mech. automatic presses, strip or coil field, valued at \$3,025 ea or more	5830	2 QTR						
		1 QTR						
		4 QTR						
3335133143-Vertical, automatic, & other mechanical presses {see manual}	5865	2 QTR						
		1 QTR						
		4 QTR						
3335133146-Hydraul. presses, vert. single action, all tonnages, housing/straight side type, \$3,025 ea or more	5961	2 QTR						
		1 QTR						
		4 QTR						
3335133151-Hydraul. presses, vert. sgl act. all tonnages, column type {open rod}, val at \$3,025 ea or more	5962	2 QTR						
		1 QTR						
		4 QTR						
3335133156-Hydraulic presses, gap or C-frame, 15 tons & under, val. at \$3,025 ea or more	6131	2 QTR						
		1 QTR						
		4 QTR						
3335133161-Hydraul. presses, gap or C-frame, 16-35 tons, valued at \$3,025 ea or more	6132	2 QTR						
		1 QTR						
		4 QTR						
3335133166-Hydraul. presses, gap or C-frame, over 35 tons, valued at \$3,025 ea or more	6133	2 QTR						
		1 QTR						
		4 QTR						

**CURRENT INDUSTRIAL REPORTS - Continued**

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**PART I - Continued**

Item (Product code - Description)	Item code	Report period	TOTAL MACHINES, DOMESTIC AND EXPORT					
			Shipments		Unfilled orders	Shipments of		Shipments
			No. of units	Value {\$1,000}	End of Quarter Value {\$1,000}	numerically controlled machines only		Export only
			1	2	3	4	5	6
3335133171-Other hydraulic & presses {metalworking}, including horizontal, valued at \$3,025 ea or more	6305	2 QTR						
		1 QTR						
		4 QTR						
X X X -Total presses, excluding forging {sum of codes 5409- 6305}	6321	2 QTR						
		1 QTR						
		4 QTR						
3335135101-All other metal forming type machine tools valued under \$3,025 each	6540	2 QTR						
		1 QTR						
		4 QTR						
3335135118-Forging machines {including forging presses & die stamping presses}, & die casting machines	6625	2 QTR						
		1 QTR						
		4 QTR						
3335135121-Riveting machines, except hand held portable types, \$3,025 ea or more	6779	2 QTR						
		1 QTR						
		4 QTR						
3335135126-All other metal forming type machine tools val. at \$3,025 ea or more {see manual}	7173	2 QTR						
		1 QTR						
		4 QTR						
X X X -Total all other metal forming type machine tools {sum of codes 6540-7173}	7191	2 QTR						
		1 QTR						
		4 QTR						
3335137121-Remanufactured metal forming machine tools	7200	2 QTR						
		1 QTR						
		4 QTR						

▶ <b>PART I - Continued</b>								
Item (Product code - Description)	Item code	Report period						
			1	2	3	4	5	6

**If all your items are not listed, please use additional lines or a blank sheet of paper.**

▶ **PART II Has there been any change in the ownership or operation of this establishment during this period?**  
 Yes - Indicate type of change below.     No - Skip to Part III.

	Name of company	Address (Number and street, city, State, ZIP Code)	Date of change
A. <input type="checkbox"/> Purchased from			
B. <input type="checkbox"/> Sold to			
C. <input type="checkbox"/> Plant discontinued all operations	Date		
D. <input type="checkbox"/> Plant operations no longer covered by this survey - Describe in "Remarks" the products currently produced.			
E. <input type="checkbox"/> Reorganized - Describe in "Remarks;" e.g., partnership change or change in corporate status.			

▶ **PART III Do the figures shown on this report and on your last report cover the identical establishments?**  
 Yes     No - Indicate reasons for difference in "Remarks."

▶ **PART IV** Remarks

▶ **PART V CERTIFICATION** - This report is substantially accurate and has been prepared in accordance with instructions.

Signature of authorized official	Title	Date
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Complete and return this form in the envelope provided or to:	▶ <b>Bureau of the Census 1201 East Tenth Street Jeffersonville, IN 47132</b>	<b>NOTE:</b> Please make a photocopy of this for your records.
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