## 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:

- a. The products you shipped were imported complete or machined for assembly.
- b. 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:

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

#### MQ333W

## 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.

## 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)	Annual Survey of Manufactures
ltem code (a)	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

## 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)

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)
		Honing and lapping machines except gear-tooth honing and lapping
3335122156	2530	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)

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FORM MQ333W	Т	
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
XXX	2815	Total horizontal NC turning machines (Sum of item codes 2807–2812)
		Vertical Spindle
3335123126	2920	Vertical spindle lathes, boring, and turning machines
3335123134	3102	NON-NUMERICALLY CONTROLLED TURNING MACHINES VALUED AT \$3,025 EACH OR MORE
		MILLING MACHINES (excluding "Machining Centers")
3335124101 3335124125	3309 3500	All milling machines valued under \$3,025 each 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 3335127106 3335127111	3721 3722 3723	Drill, Mill, Bore — VERTICAL (Automatic Tool Change) "Y" axis travel less than 20" "Y" axis travel 20" through 26" "Y" axis travel over 26"
3335127112 3335127113 3335127114	3724 3725 3726	Drill, Mill, Bore — HORIZONTAL (Automatic Tool Change) Under 500mm pallet 500mm-800mm pallet 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 3335128106 3335128111	3821 3823 3825	Dial or rotary, trunnion, and center column Transfer (free, palletized, shuttle) Other station type
xxx	3831	Total station type machines (Sum of item codes 3821–3825)

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)
3335129122 3335129123 3335129126	4181 4183 4196	Sawing and cut-off machines  Band saws  Vertical  Horizontal  All other sawing and cut-off machines (including contour sawing and filing)
3335129131 3335129134 3335129135	4619 4628 4629	Spark erosion, ultrasonic, and electrolytic machines Water Jet cutting machines Laser cutting machines
3335129136	4630	All Other metal cutting machine tools (including rifling, centering, key-seating, pointing, chamfering, facing, shaving, grooving, countersinking, 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 3335131121	5031 5032	Mechanical Hydraulic
3335131126	5085	Other power operated punching and shearing machines

		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

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

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12/27/2007

15 Days After Receipt **DUE DATE:** 

OMB No. 0607-0395: Approval expires 08-31-10

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



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200802

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:[

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. PART I

Tor the previous two perious.					DOMESTI			
ltem (Product code – Description)	Item code	Report period	Shipm		Unfilled orders		s of Shipments y con- Export chines only	
			No. of units	Value {\$1,000} {	Value (\$1,000}	No. of	Value Value 1,000} {\$1,000}	
* PLEASE REFER TO INSTRUC- * TION MANUAL FOR COMPLETE		1	1	2	3	4	5 6	
* ITEM DESCRIPTIONS								
333512A103-Horiz. boring, drilling & milling mach.,	1125	2 QTR						
\$3,025 ea. or more: incl. floor, table & rail mounted		1 QTR						
		4 QTR					- Company of the comp	
333512A105-Precision and jig boring mach.incl. horiz. &	1140	2 QTR				The state of the s		
vert. boring machines \$3,025 each or more		1 QTR						
		4 QTR						48
333512A111-All drilling machines valued under \$3,025	1205	2 QTR					·	
each, excl. machining centers		1 QTR						
		4 QTR						

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

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U.S. DEPARTMENT OF COMMERCE BUREAU OF THE CENSUS | Identification Number (ID) (Enter if not shown, correct if wrong)

**CURRENT INDUSTRIAL REPORTS - Continued** 

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PARTI- Continued TOTAL MACHINES, DOMESTIC AND EXPORT							RT	
ltem (Product code – Description)	ltem code	Report period	Shipm	****	Unfilled orders End of Quarter	Shipment numericall trolled ma	s of Sh y con- chines	ipments Export only
	!		No. of units	Value {\$1,000}	Value {\$1,000}	No. of	Value	Value \$1,000}
333512A113-Vert. upright drilling mach.,incl. plain-	1215	2 QTR	1	2	3	4	2	
upright & heavy duty, \$3,025	1215	1 QTR						
ea. or more		4 QTR						
333512A117-Deep hole drilling				objection of the second		ion in the second		
machines, \$3,025 each or more	1235	2 QTR						
		1 QTR						
		4 QTR						
333512A12O-Multiple spindle- drilling mach., {cluster of	1250	2 QTR						
spindles driven from one central power unit}		1 QTR						
		4 QTR						
333512A123-All other drilling mach. incl. sensitive,	1265	2 QTR						
vert,radial, \$3,025 ea. or more		1 QTR						
		4 QTR						rene de la companya d
X X X -Total boring and drilling machines {sum of	1295	2 QTR				71040		
codes 1125-1265}		1 QTR			and the second			
		4 QTR						
3335121200-Gear cutting machines {see manual for	1991	2 QTR		-	***************************************	**************************************		manufacture (manufacture manufacture manuf
inclusions}		1 QTR						
		4 QTR						
3335122101-Grinding, polishing, buffing, honing, & lap-	2010	2 QTR		***************************************	de la constant de la	acidicarriare control of the control	**************************************	Contraction of the Contraction o
ing machines, ex. gear-tooth type, under \$3,025 each		1 QTR						
type, under \$5,025 each		4 QTR						
3335122110-External cylindri-	2050	2 0.TD		4		No exercise and the second	and the second s	-
cal grinding machines	2050		124030					
		1 QTR						
2225122120 Intonnal		4 QTR						
3335122120-Internal cylindrical grinding machines	2100	2 QTR						
		1 QTR						
		4 QTR						
3335122122-Surface grinding machines	2146	2 QTR		-		0.000	3/3/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2	
		1 QTR						
		4 QTR						

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**CURRENT INDUSTRIAL REPORTS - Continued** 

PART I - Continued								
			TOTAL MACHINES					
ltem (Product code – Description)	Item code	Report period	Shipm	ents	End of	Shipment numericall trolled ma	y con- chines	ipments Export only
			No. of units	Value {\$1,000}	Quarter Value {\$1,000}	only No. of units {\$	Value	Value \$1,000}
3335122136-All other disc grinders, bench, floor, snag, double spindle abrasive belt	2225	2 QTR	1	2	3	4	5	6
double spindle,abrasive belt grinders, \$3,025 ea or more		1 QTR 4 QTR	2	900 A CONTRACTOR AND A				
3335122142-Tool, cutter, and drill point grinding	2328	2 QTR						
machines {incl. universal & special} \$3,025 ea or more		1 QTR						
3335122151-All other grinding		4 QTR		erecent construction		***************************************	ray incompany	
mach. {see manual for inclusions}, \$3,025 ea or	2430	2 QTR		****				
more		1 QTR		veiening of the second of the		****		
3335122156-Honing & lapping		4 QTR		-				
mach. exc. gear type-internal incl. comb. bore-hone &	2530	2 QTR		- S		-		
external,\$3,025 each or more		1 QTR		***************************************				
0005100164 51 1		4 QTR		:				
3335122161-Flat surface lapping machines, excl.gear lapping, valued at \$3,025	2579	2 QTR						
ea. or more		1 QTR					o-in-	
3335122166-Polishing & buff-		4 QTR						
<pre>ing machines {see manual} \$3,025 each or more</pre>	2740	2 QTR		***************************************				
40,020 cach of more		1 QTR		-				
V V V Tabal and a		4 QTR						
X X X -Total grind.,pol- ishing,buffing,honing &	2790	2 QTR						
lapping mach.exc. gear-tooth type{sum of codes 2010-2740}		1 QTR		reinassionalis.				
		4 QTR		- · · · · · · · · · · · · · · · · · · ·				
3335123131-All lathes {turning machines} valued under \$3,025 each	2801	2 QTR		TO THE	orana and a second a second and		ACCOMPANY AND ACCOMPANY ACCOMPAN	navara a rational de la constante de la consta
ander 40,020 eden		1 QTR						
2025102107 NO 1		4 QTR						
3335123107-NC turning mach ines, horizontal spindle,	2807	2 QTR					***************************************	
chuck size less than 10" {\$3,025 ea. or more}		1 QTR						
		4 QTR					<b>Exercise</b>	
3335123116-NC turning machines, horiz. spindle,	2809	2 QTR		rescontantantantan	· ·		**************************************	Peddinadagan singan sanah
chuck size 10" to less than 15" {\$3,025 ea. or more}		1 QTR						
FORM CIR-2 (Continuation) (10-24-2002)		4 QTR						

U.S. DEPARTMENT OF COMMERCE BUREAU OF THE CENSUS Identification Number (ID) (Enter if not shown, correct if wrong)

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**CURRENT INDUSTRIAL REPORTS - Continued** 

CORRENT INDOSTRIAL REPORTS - Continued 89101051910								4
PART I - Continued			TOTA	L MACHINE	S, DOMESTI Unfilled	C AND EXPO	RT s of Sh	pments
Item (Product code – Description)	Item code	Report period	Shipments		orders End of Quarter	numericall trolled ma	y con- chines	xport only
			No. of units	Value {\$1,000}	Value {\$1,000}	No. of units {	Value 1,000} {	Value \$1,000}
3335123127-NC turning machines, horiz. spindle	2812	2 QTR	1	2	3	4	5	b
chuck size 15" & over, multi spindle		1 QTR						
Springre	-	4 QTR					No infragrantia de la constanta	
X X X -Total lathes, horiz. numerically controlled	2815	2 QTR						in the second se
turning machines {sum of codes 2807-2812}		1 QTR						
•		4 QTR			300000			
3335123126-NC vertical spindle lathes, boring & turning machines, \$3,025 ea.	2920	2 QTR						
or more		1 QTR			***			
		4 QTR			***			
3335123134-Non-numerically controlled turning machines valued at \$3,025 each or	3102	2 QTR			000000000000000000000000000000000000000	xxxxx	XXXXX	
more		1 QTR		***************************************		XXXXX	XXXXX	
		4 QTR				XXXXX	XXXXX	
3335124101-All milling machines valued under \$3,025 each, excluding machining	3309				· ·			
centers		1 QTR		-				
3335124125-All milling		4 QTR		***		anne arrivation	-	
machines valued at \$3,025 each or more, excluding	3500			de servicios de la constante d		***************************************		:
machining centers	·	1 QTR				er sistematica de la companya de la	****	**************************************
X X X -Total milling		4 QTR					***************************************	
machines excl. machine	3691	2 QTR					***************************************	and the second s
centers {sum of codes 3309-3500}		1 QTR				<b>.</b>	and the second	
		4 QTR						
3335127101-Machining centers; drill, mill, bore-VERTICAL,	3721	2 QTR					raine di accessorance	uniono de la constanta de la c
Y axis travel less than 20 inches		1 QTR						
		4 QTR						
3335127106-Machining centers; drill, mill, bore-VERTICAL,	3722	2 QTR				SOLIN LABORATION AND AND AND AND AND AND AND AND AND AN	WI W	***************************************
Y axis travel 20 - 26 inches		1 QTR						
		4 QTR						
3335127111-Machining centers; drill, mill, bore-VERTICAL,	3723	2 QTR			with			
Y axis travel over 26 inches		1 QTR						
		4 QTR						

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**CURRENT INDUSTRIAL REPORTS - Continued** 

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PART I - Continued								
Item (Product code – Description)	Item code	Report period	TOTAL MACHINES Shipments		Unfilled orders End of	Shipment numericall trolled ma	s of Sh y con- chines	ipments Export
			No. of units	Value {\$1,000}	Quarter Value {\$1,000}		Value	Value \$1,000}
3335127112-Machining centers; drill, mill, bore - HORIZ.	3724	2 QTR	1	2	3	4	5	6
Under 500mm pallet and smaller		1 QTR						
3335127113-Machining centers;		4 QTR						
drill, mill, bore - HORIZ. 500mm - 800mm pallet	3725	2 QTR 1 QTR		annina de la companya				
		4 QTR		-		e e e e e e e e e e e e e e e e e e e		
3335127114-Machining centers; drill, mill, bore - HORIZ.	. 3726	2 QTR		souritaese-taikiyasepiki		a de la companya de l	uninementementementementementementementem	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Over 800mm pallet		1 QTR		VARIANCE CONTRACTOR CO				
3335127146-All other		4 QTR		and the second s			CALLEGE CONTRACTOR CON	
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		nnnn	one and the second seco		Casalana de Casala	
		1 QTR 4 QTR		THE PROPERTY OF THE PROPERTY O				
3335128101-Station type machines dial or rotary, trunnion & center column	3821	2 QTR	-		and the second s	side de la constant d		1
		1 QTR						
3335128106-Station type		4 QTR		500 mm	Strain Comments	reaction of the state of the st		
machines transfer {free, palletized, shuttle}	3823							
		1 QTR 4 QTR		our control of the co		TOTAL		
3335128111-Other station type metal cutting machine tools	3825	2 QTR						
		1 QTR						
X X X -Total station type machines {sum of codes 3821-3825}		4 QTR						
	3831	2 QTR 1 QTR				The state of the s		
		4 QTR						
3335129101-Other metal cutting machine tools,	3840	2 QTR					-	
valued under \$3,025	·	1 QTR		The second secon				
FORM CIR-2 (Continuation) (10-24-2002)		4 QTR						

## **CURRENT INDUSTRIAL REPORTS - Continued**

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PART I - Continued								
			TOTAL MACHINES, DOMESTIC AND EXPORT Unfilled Shipments of Shipments					
Item (Product code – Description)	ltem code	Report period	Shipm	ents	End of	numericall trolled ma	y con- l chines	pments Export only
	oodo	poriod	No. of units	Value {\$1,000}	Quarter		Value \	/alue 31,000}
3335129106-Broaching mach-	,		1	2	3	4	5	6
ines, incl.internal & surface, \$3,025 each or more	3850	2 QTR 1 QTR			3-2-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-			
		4 QTR						
3335129122-Sawing & cut-off machines: vertical band saws	4181	2 QTR			20000000000000000000000000000000000000			
valued at \$3,025 each or more	·	1 QTR						
		4 QTR						
3335129123-Sawing & cut-off machines: horizontal band	4183	2 QTR			noutilities and the second sec			
saws valued at \$3,025 each or more		1 QTR						
		4 QTR		responsacione de la companya della companya della companya de la companya della c				
3335129126-All other sawing & cut-off machines {include	4196	2 QTR		·		in the second se		
contour sawing & filing}, \$3,025 ea or more		1 QTR						
		4 QTR		adda.				
3335129131-Spark erosion, ultrasonic & electrolytic	4619	2 QTR				Control of the Contro		
mach., \$3,025 ea or more		1 QTR			. :			
		4 QTR						
3335129134-Water jet cutting machines	4628	2 QTR		version of the second of the s		**************************************		
		1 QTR					'	
		4 QTR						
3335129135-Laser cutting machines	4629	2 QTR		occurrence and the second				
		1 QTR					· .	
		4 QTR						***************************************
3335129136-All other metal cutting machine tools {see	4630	2 QTR						1000000
manual for inclusions}, \$3,025 ea or more		1 QTR						
		4 QTR						
X X X -Total other metal cutting machine tools {sum	4691	2 QTR			works a second s		***************************************	000000
of codes 3840-4630}		1 QTR						
		4 QTR						
3335126111-Remanufactured metal cutting machine	4700	2 QTR					verticano and a second a second and a second a second and	***************************************
tools		1 QTR						
		4 QTR						

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### **CURRENT INDUSTRIAL REPORTS - Continued**

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PART I - Continued TOTAL MACHINES, DOMESTIC AND EXPORT Unfilled Shipments of Shipments Shipments item Item Report orders numerically con-Export End of trolled machines only (Product code - Description) code period Quarter ----only No. of Value Value No. of Value Value units \$1,000} \$1,000} units {\$1,000} {\$1,000} 3335131101-All punching and 5009 shearing machines valued 2 QTR under \$3,025 each 1 QTR 4 OTR 3335131106-Punches, incl. comb. punching & shearing 5019 2 QTR mach., power operated, 1 QTR \$3,025 ea or more 4 QTR 3335131111-Punching mach. fixed position & 2-axes 5025 2 QTR positioning table, power 1 QTR operated, \$3,025 ea or more 4 QTR 3335131116-Mechan, plate shearing machines {squaring, 5031 2 QTR slitting etc}, power 1 QTR operated, \$3,025 ea or more 4 QTR 3335131121-Hydraulic plate shearing mach. {squaring, 5032 2 QTR slitting etc}, power 1 QTR operated. \$3.025 ea or more 4 QTR 3335131126-Other power operated punching and 5085 2 QTR shearing machines, \$3,025 1 QTR ea or more 4 QTR 3335131131-All bending and forming machines valued 5109 2 QTR under \$3,025 each 1 QTR 4 QTR 3335131136-Bending and forming machines, press 5112 2 QTR brakes, \$3,025 ea or more 1 OTR 4 QTR 3335131145-Roll bending mach. 5222 incl. sheet, plate, angles, 2 QTR bars, shapes, & tubes 1 QTR {see manual} 4 QTR 3335131161-Other bending & forming machines valued at 5270 2 QTR \$3,025 ea or more {see 1 QTR manual for inclusions} 4 QTR

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**CURRENT INDUSTRIAL REPORTS - Continued** 

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PART I - Continued			TOTA	L MACHINES	, DOMESTI	C AND EXPO	RT	
ltem (Product code – Description)	ltem code	Report period	Shipments		End of	Shipment numericall trolled ma only	y con- l chines	pments xport only
			No. of units	<del></del>	Value \$1,000}	No. of units {\$	Value \ 1,000} {:	/alue 1,000}
X X X -Total punching, shearing, bending & forming	5291	2 QTR	1	2	3	4	5	6
mach. {sum of 5009-5270}	0231	1 QTR						
		4 QTR			on the state of th	and de la contraction de la co		
3335133101-All presses valued under \$3,025 each	5409	2 QTR			The second secon			
·		1 QTR						
		4 QTR			ntentricities of the control of the			
3335133109-Mechan. presses- open back inclinable {Gap or	5427	2 QTR		and the state of t		one and the same a		
C-type}		1 QTR						
		4 QTR						
3335133136-Mech. automatic presses, strip or coil	5830	2 QTR				-		
field, valued at \$3,025 ea or more		1 QTR						
		4 QTR						
3335133143-Vertical, auto- matic, & other mechanical presses {see manual}	5865	2 QTR			,	na vojeni na dodina voj		***************************************
	-	1 QTR	-					
		4 QTR						
3335133146-Hydraul. presses, vert. single action, all tonnages, housing/straight side type, \$3,025 ea or more	5961	2 QTR					The state of the s	
		1 QTR					-	
		4 QTR					· · · · · · · · · · · · · · · · · · ·	e sayasanî As
3335133151-Hydraul. presses, vert. sgl act. all tonnages, column type {open rod}, val at \$3,025 ea or more	5962	2 QTR		· ·	nation of the state of the stat		***************************************	and the second s
		1 QTR						
	,	4 QTR						
3335133156-Hydraulic presses, gap or C-frame, 15 tons & under, val. at \$3,025 ea or more	6131	2 QTR		terronal desiration of the second	No. 10 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)		0.000	;
		1 QTR						
		4 QTR						
3335133161-Hydraul. presses, gap or C-frame, 16-35 tons,	6132	2 QTR		Construction Const				
valued at \$3,025 ea or more		1 QTR						
		4 QTR						
3335133166-Hydraul. presses, gap or C-frame, over 35	6133	2 QTR						
tons, valued at \$3,025 ea or more		1 QTR						
		4 QTR						

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PART I - Continued TOTAL MACHINES, DOMESTIC AND EXPORT Unfilled Shipments of Shipments Shipments Export orders numerically con-Item ltem Report End of trolled machines only (Product code - Description) code period Quarter ----only-----Value No. of Value Value No. of Value units units **{\$1,000**} \$1,000} **{\$1,000**} {\$1,000} 3 3335133171-Other hydraulic & presses {metalworking}, 6305 2 QTR including horizontal, valued 1 QTR at \$3,025 ea or more 4 QTR X X X-Total presses. excluding forging {sum of 6321 2 QTR codes 5409- 6305} 1 QTR 4 QTR 3335135101-All other metal 6540 forming type machine tools 2 QTR valued under \$3,025 each 1 QTR 4 QTR 3335135118-Forging machines {including forging presses 6625 2 QTR & die stamping presses}, 1 QTR & die casting machines 4 QTR 3335135121-Riveting machines, except hand held portable 6779 2 QTR types. \$3.025 ea or more 1 QTR 4 QTR 3335135126-All other metal 7173 forming type machine tools 2 QTR val. at \$3,025 ea or 1 QTR more {see manual} 4 OTR X X X-Total all other 7191 metal forming type machine 2 QTR tools {sum of codes 1 0TR 6540-7173} 4 QTR 3335137121-Remanufactured 7200 2 QTR metal forming machine tools 1 QTR 4 QTR

PART I - Continued										
ltem (Product code – Desc	ription)	ltem code	Report period							
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	Name of company					lumber and stre	et, city, State, ZIP C	ode) Dat	e of change	
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B. Sold to										
C. Plant discontinued a	all operations		Date	е						
D. Plant operations no		ed by thi	s survey -	– Describe in	"Remarks" the	products curre	ntly produced.			
E. Reorganized - Descri										
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▶ PART IV Remarks										
PART V CERTIFICA Signature of authorized of		eport is	substantia Title	ally accurate	and has been	prepared in acc	ordance with instru	ctions. Date		
Signature of authorized of	molal		1166					-		
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