

Metalworking Machinery: First Quarter 2007

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U S C E N S U S B U R E A U

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U.S. Department of Commerce
Economics and Statistics Administration
U.S. CENSUS BUREAU

Table 1. Total Shipments and Unfilled Orders
 [Quantity in units. Value in thousands of dollars]

Product code	Product description	No. of cos.	First quarter 2007			Fourth quarter 2006			
			Total shipments		Unfilled orders (value)	Total shipments		Unfilled orders (value)	
			Quantity	Value		Quantity	Value		
	Metalworking machinery.....	(X)	33,291	746,759	1,280,765		32,919	816,649	1,232,265
	Total metal cutting type machine tools.....	(X)	21,151	546,685	934,871	r/	22,207	608,150	889,236
	Total metal forming type machine tools.....	(X)	12,140	200,074	345,894	r/	10,712	208,499	343,029
	Metal cutting type machine tools valued at \$3,025 each or more 1/ 2/ 3/ 4/.....	(X)	7,120	512,661	894,822		7,885	570,544	842,455
	Metal cutting type machine tools valued under \$3,025 5/ 6/.....	(X)	13,781	10,895	511	r/	14,010	r/ 11,103	r/ 498
333512A1	Boring and drilling machines.....	23	a/ 2,257	b/ 37,315	36,128	a/	2,370	c/r/ 26,990	r/ 48,288
	Boring machines valued at \$3,025 each or more:								
333512A103	Horizontal boring, drilling, and milling machines, including floor, table, rail mounted, and all other nonprecision boring machines (except boring lathes).....	4	(D)	(D)	(D)		(D)	(D)	(D)
333512A105	Precision and jig boring machines, including horizontal and vertical machines.....	1	(D)	(D)	(D)		(D)	(D)	(D)
333512A111	All drilling machines valued under \$3,025 each.....	7	1,883	1,997	56		1,984	2,215	83
	Drilling machines valued at \$3,025 each or more:								
333512A113	Vertical upright drilling machines, including plain upright and heavy duty.....	3	16	110	(D)		(D)	(D)	(D)
333512A117	Deep hole drilling machines.....	3	(D)	(D)	(D)		(D)	(D)	(D)
333512A120	Multiple spindle drilling machines.....	6	c/ 48	c/ 1,753	(D)	c/	57	c/ 1,723	(D)
333512A123	All other drilling machines.....	3	b/ 4	c/ 75	(X)		(D)	(D)	(X)
3335121200	Gear cutting machines, including gear hobbers, shapers, teeth finishing, bevel gear generators, and all other gear cutting machines 1/.....	3	(D)	(D)	(D)		(D)	(D)	69,489
33351221	Grinding, polishing, buffing, honing, and lapping machines.....	48	c/ 7,830	a/ 46,324	a/ 149,035	a/	8,574	r/ 65,456	133,434
3335122101	All grinding, polishing, buffing, honing, and lapping machines valued under \$3,025 each.....	13	c/ 7,358	c/ 4,877	(D)	a/	7,922	b/ 5,187	c/ 130
	All grinding, polishing, buffing, honing, and lapping machines valued at \$3,025 each or more:								
3335122110	External cylindrical grinding machines.....	9	b/ 98	8,941	34,448	b/r/	124	14,578	35,538
3335122120	Internal cylindrical grinding machines.....	1	(D)	(D)	(D)		(D)	(D)	(D)
3335122122	Surface grinding machines.....	5	b/ 102	c/ 2,564	(D)	b/	139	b/ 4,000	(D)
3335122136	All other disc grinders, including bench, floor, snag, double spindle grinders, and abrasive belt grinders.....	3	(D)	(D)	(D)		(D)	(D)	(D)
3335122142	Tool, cutter, and drill point grinding machines.....	11	b/ 71	13,845	(D)	r/	104	r/ 19,528	(D)
3335122151	All other grinding machines, including planer type, and thread grinding machines.....	6	66	a/ 3,242	14,046	r/	99	a/r/ 4,951	a/r/ 11,810
3335122156	Honing and lapping machines (except flat surface lapping machines), internal, including combination bore, hone, and external.....	4	63	7,036	(D)		69	5,575	(D)
3335122161	Flat surface lapping machines (except gear lapping).....	2	(D)	(D)	(D)		37	1,753	(D)
3335122166	Polishing and buffing machines, including speed lathes and multistation type.....	8	21	2,062	19,879		41	3,047	18,529
33351231	Lathes 2/ 3/ 6/.....	(X)	1,443	82,275	47,995	r/	1,620	81,229	r/ 49,355
	Numerically controlled:								
	Horizontal.....	5	a/ 1,292	a/ 80,857	a/ 47,263		1,362	78,751	49,355
	Single spindle NC turning machines:								
3335123107	Chuck sizes less than 10 inches.....	4	747	33,908	14,939		805	r/ 35,395	16,143
3335123116	Chuck sizes from 10 inches but less than 15 inches.....	4	(D)	(D)	(D)		(D)	(D)	(D)
3335123127	Chuck sizes 15 inches and over and multiple spindle NC turning machines.....	3	(D)	(D)	(D)		(D)	(D)	(D)
3335123126	Vertical NC turning machines 2/.....	3	(D)	(D)	(D)		(D)	(D)	(D)
3335123131	All lathes (turning machines) valued under \$3,025 each 6/.....	2	(D)	(D)	(X)		(D)	(D)	(X)
3335123134	All nonnumerically controlled lathes (turning machines) valued at \$3,025 each or more 3/.....	7	c/ 151	c/ 1,418	732	c/	258	b/ 2,478	(D)
33351241	Milling machines 3/ 6/.....	6	b/ 257	c/ 7,342	107,622	b/	292	c/ 8,970	(D)
3335124101	All milling machines valued under \$3,025 each 6/.....	2	(D)	(D)	(X)		(D)	(D)	(X)

Table 1. Total Shipments and Unfilled Orders
 [Quantity in units. Value in thousands of dollars]

Product code	Product description	No. of cos.	First quarter 2007			Fourth quarter 2006			Unfilled orders (value)
			Total shipments		Unfilled orders (value)	Total shipments		Unfilled orders (value)	
			Quantity	Value		Quantity	Value		
3335124125	All milling machines valued at \$3,025 or more 3/.....	7	257	a/ 7,342	107,622	a/ 292	c/ 8,970	(D)	
33351271	Machining centers.....	9	2,701	171,188	272,676	2,932	185,087	283,390	
	Drill, mill, and bore, vertical (automatic tool change):								
3335127101	Y-axis travel less than 20 inches.....	3	(D)	(D)	(D)	(D)	(D)	(D)	
3335127106	Y-axis travel 20 inches through 26 inches.....	5	1,019	71,866	40,063	r/ 1,073	r/ 77,315	r/ 43,393	
3335127111	Y-axis travel over 26 inches.....	5	a/ 271	a/ 30,638	42,355	a/ 271	a/ 29,523	43,900	
	Drill, mill, and bore, horizontal (automatic tool change):								
3335127112	Under 500mm pallet and smaller.....	2	(D)	(D)	(D)	(D)	(D)	(D)	
3335127113	500 to 800mm pallet.....	3	(D)	(D)	12,243	(D)	(D)	c/r/ 14,601	
3335127114	Over 800mm pallet.....	4	(D)	(D)	34,152	4	r/ 3,783	a/ 43,457	
3335127146	All other machining centers, including special machining, special adapting of standard machining and machining centers with indexing turret.....	1	(D)	(D)	(D)	(D)	(D)	(D)	
33351281	Station type machines 4/.....	7	17	25,594	60,176	r/ 32	r/ 38,911	(D)	
3335128101	Dial or rotary, trunnion, and center column.....	4	(D)	(D)	(D)	(D)	(D)	(D)	
3335128106	Transfer.....	3	a/ 7	20,624	38,816	a/ 23	36,830	22,656	
3335128111	Other station type.....	1	(D)	(D)	(D)	(D)	(D)	(D)	
33351291	Other metal cutting machine tools 5/.....	49	a/ 5,883	115,653	107,070	a/r/ 5,550	133,989	95,526	
3335129101	Other metal cutting machine tools, valued under \$3,025 5/.....	12	a/ 4,080	b/ 3,693	(D)	a/r/ 3,644	b/r/ 3,373	(D)	
	Other metal cutting machine tools, valued at \$3,025 each or more:								
3335129106	Broaching machines.....	6	c/ 14	c/ 1,247	c/ 3,552	c/r/ 29	b/r/ 3,430	c/ 2,031	
	Sawing and cutoff machines:								
	Band saws:								
3335129122	Horizontal.....	7	300	5,528	(D)	249	r/ 4,324	(D)	
3335129123	Vertical.....	5	240	5,044	(D)	326	6,142	(D)	
3335129126	All other sawing and cutoff machines.....	9	146	7,450	b/ 2,008	153	5,343	b/ 4,690	
3335129131	Spark erosion, ultrasonic, and electrolytic machines, all types.....	1	(D)	(D)	(D)	(D)	(D)	(D)	
3335129136	Miscellaneous metal cutting machine tools	23	b/ 1,103	92,691	85,122	a/r/ 1,149	111,377	75,588	
3335126111	Remanufactured metal cutting machine tools.....	12	c/ 250	c/ 23,129	b/ 39,538	c/ 312	c/ 26,503	b/ 46,283	
	Metal forming type machine tools valued at \$3,025 or more.....	(X)	3,394	189,682	341,317	3,243	196,846	337,876	
	Metal forming type machine tools valued under \$3,025 7/.....	(X)	8,716	6,337	391	r/ 7,433	6,146	424	
33351311	Punching, shearing, bending, and forming machines.....	57	a/ 3,286	a/ 93,754	159,459	3,040	103,039	152,508	
3335131101	All punching and shearing machines valued under \$3,025 each.....	8	382	431	113	r/ 261	310	r/ 104	
	All punching and shearing machines valued at \$3,025 each or more:								
	Power operated only:								
3335131106	Punches, including combination punching and shearing machines.....	14	a/ 1,014	13,236	1,522	a/ 910	a/ 11,175	2,559	
3335131111	Punching machines fixed position and two axes positioning table.....	3	43	11,277	14,001	57	16,008	9,574	
	Plate shearing machines								
3335131116	Mechanical.....	3	c/ 30	b/ 994	(D)	(D)	(D)	(D)	
3335131121	Hydraulic.....	7	a/ 282	b/ 4,717	5,051	238	4,926	6,254	
3335131126	Other power operated punching and shearing machines.....	3	21	1,375	(D)	(D)	(D)	(D)	
3335131131	All bending and forming machines, power operated valued at under \$3,025 each.....	5	425	944	81	411	845	141	
	All bending and forming machines, power operated valued at \$3,025 each or more:								
3335131136	Press brakes, all types.....	7	145	a/ 14,334	19,701	176	a/ 17,509	19,803	
3335131145	Roll bending machines including sheet, plate, angles, bars, shapes and tubes, and rotary bending and forming machines, including rotary head.....	15	c/ 247	a/ 21,273	82,915	b/ 290	25,610	72,763	
3335131161	Other bending and forming machines, including folders and slide bending machines.....	14	b/ 697	a/ 25,173	34,223	639	24,397	38,872	
33351331	Presses (except forging) 7/.....	27	a/ 409	a/ 35,940	74,785	b/ 500	44,061	78,950	
3335133101	All presses valued under \$3,025 each 7/.....	6	(D)	(D)	(D)	(D)	(D)	(D)	
	All presses valued at \$3,025 each or more:								
3335133109	Mechanical presses: Gap or C-frame.....	3	(D)	(D)	229	b/ 26	448	109	
3335133136	Automatic presses, strip or coil fed.....	4	b/ 26	a/ 6,976	15,319	b/ 51	a/r/ 18,690	r/ 17,358	

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 [Quantity in units. Value in thousands of dollars]

Product code	Product description	No. of cos.	First quarter 2007			Fourth quarter 2006		
			Total shipments		Unfilled orders (value)	Total shipments		Unfilled orders (value)
			Quantity	Value		Quantity	Value	
3335133143	Vertical, automatic, and all other mechanical presses.....	3	(D)	(D)	(D)	(D)	(D)	(D)
	Hydraulic presses:							
	Vertical single action, all tonnages:							
3335133146	Housing or straight side type.....	3	(D)	(D)	(D)	(D)	(D)	(D)
3335133151	Column type (open rod).....	5	(D)	(D)	(D)	(D)	(D)	(D)
	Gap or C-frame:							
3335133156	15 tons and under.....	4	33	463	643	51	720	129
3335133161	16 tons to 35 tons.....	2	(D)	(D)	(D)	r/ 8	r/ 408	(D)
3335133166	Over 35 tons.....	5	(D)	(D) a/	1,044	17	1,400	b/ 1,021
3335133171	Other hydraulic and pneumatic presses, including horizontal.....	9	c/ 248	a/ 5,918	9,010	c/ 287	a/ 7,656	r/ 8,490
33351351	All other metal forming type machine tools 7/.....	30	506	b/ 61,363	b/ 107,267	375	b/ 50,901	b/ 106,663
3335135101	All other metal forming type machine tools valued under \$3,025 each 7/.....	5	(D)	(D)	(D)	(D)	(D)	(D)
	All other metal forming type machine tools valued at \$3,025 each or more:							
3335135118	Forging machines, including forging presses and die stamping presses, and die casting machines, all types.....	4	c/ 34	c/ 18,761	(D)	b/ 34	c/ 18,761	(D)
3335135121	Riveting machines.....	5	164	3,476	(D)	89	1,293	(D)
3335135126	All other metal forming type machine tools.....	19	308	39,126	80,611	252	r/ 30,847	80,055
3335137121	Remanufactured metal forming machine tools.....	7	b/ 30	c/ 4,055	b/ 4,186	b/ 36	c/ 5,507	b/ 4,729

D Withheld to avoid disclosing data for individual companies. r/Revised by 5 percent or more from previously published data. X Not applicable.

1/Product code 3335121200 is included in the total for "Metal cutting type machine tools valued at \$3,025 each or more."

2/Product code 3335123126 is included in the total for "Metal cutting type machine tools valued at \$3,025 each or more," but excluded from product class 33351231.

3/"Unfilled orders (value)" for product codes 3335123134 and 3335124125 are included in the total for "Metal cutting type machine tools valued at \$3,025 each or more," but excluded from product classes 33351231 and 33351241 respectively.

4/"Unfilled orders (value)" for product class 33351281 is included in the total for "Metal cutting type machine tools valued at \$3,025 each or more."

5/"Unfilled orders (value)" for product code 3335129101 is included in the total for "Metal cutting type machine tools valued under \$3,025," but excluded from product class 33351291.

6/Product codes 3335123131 and 3335124101 are included in the total for "Metal cutting type machine tools valued under \$3,025," but excluded from product class 33351231 and 33351241 respectively.

7/Product codes 3335133101 and 3335135101 are included in the total for "Metal forming type machine tools valued under \$3,025," but excluded from product classes 33351331 and 33351351 respectively.

Note: This report includes complete machines only. Percent of estimation of each item is indicated as follows: a/16 to 25 percent of this item is estimated. b/26 to 50 percent of this item is estimated. c/Over 50 percent of this item is estimated.

Table 2. Shipments of Numerically Controlled Machines and Exports
 [Quantity in units. Value in thousands of dollars]

Product description	First quarter 2007			Fourth quarter 2006		
	Shipments of numerically controlled machines		Export shipments (value) 1/	Shipments of numerically controlled machines		Export shipments (value) 1/
	Quantity	Value		Quantity	Value	
Metalworking machinery.....	5,273	488,211	217,231	5,932	510,219	207,064
Metal cutting type machine tools 2/.....	5,082	438,408	154,629	5,711	458,855	154,106
Boring and drilling machines 2/.....	(D)	(D)	(D)	151	10,346	(D)
Gear cutting machines 2/.....	(D)	(D)	(D)	(D)	(D)	(D)
Grinding, polishing, buffing, and lapping machines.....	121	22,402	9,952	170	30,259	10,801
Valued under \$3,025 each, external cylindrical grinding machines (plain and universal), and surface grinding machines, all types.....	(D)	(D)	(D)	(D)	(D)	(D)
Honing, lapping, polishing and buffing machines.....	(D)	(D)	(D)	(D)	(D)	(D)
Horizontal NC turning machines, valued at \$3,025 each or more 3/.....	1,292	80,857	25,376	1,362	78,751	23,623
Single spindle NC turning machines:						
Chuck sizes less than 10 inches 3/.....	747	33,908	(D)	805	35,395	(D)
Chuck sizes over 10 inches but less than 15 inches 3/.....	(D)	(D)	(D)	(D)	(D)	9,242
Chuck sizes 15 inches and over and multiple spindle 3/.....	(D)	(D)	(D)	(D)	(D)	(D)
Vertical NC turning machines, valued at \$3,025 each or more 2/.....	(D)	(D)	(D)	(D)	(D)	(D)
Nonnumerically controlled turning machines, valued at \$3,025 or more.....	(X)	(X)	(D)	(X)	(X)	(D)
Milling machines 2/.....	59	5,272	(D)	289	8,933	(D)
Machining centers 4/.....	2,701	171,188	(D)	2,932	185,087	(D)
Drill, mill and bore, vertical (automatic tool change) 4/.....	(D)	(D)	(D)	(D)	(D)	(D)
Y-axis travel less than 20 inches 4/.....	(D)	(D)	(D)	(D)	(D)	(D)
Y-axis travel 20 inches through 26 inches.....	1,019	71,866	26,300	1,073	77,315	22,021
Y-axis travel over 26 inches 4/.....	271	30,638	(D)	271	29,523	(D)
Drill, mill and bore, horizontal (automatic tool change) 4/.....	104	17,644	(D)	115	19,819	(D)
Under 500mm pallet 4/.....	(D)	(D)	(D)	(D)	(D)	(D)
500mm-800mm pallet 4/.....	(D)	(D)	(D)	(D)	(D)	(D)
Over 800mm pallet 4/.....	(D)	(D)	(X)	4	3,783	(X)
All other machining centers 4/.....	(D)	(D)	(X)	(D)	(D)	(X)
Station type machines, and other metal cutting machine tools.....	464	82,664	25,058	472	91,894	29,904
Remanufactured metal cutting machines 2/.....	220	13,121	3,407	(D)	(D)	2,359
Metal forming type machine tools 5/.....	191	49,803	62,602	221	51,364	52,958
Punching, shearing, bending, and forming machines.....	131	24,346	18,682	177	32,656	21,721
Punching and shearing machines.....	48	11,905	7,636	61	16,577	7,116
All bending and forming machines, power operated.....	83	12,441	11,046	116	16,079	14,605
Presses (except forgings) 5/.....	(D)	(D)	(D)	(D)	(D)	(D)
All other metal forming type machine tools 5/.....	(D)	(D)	(D)	(D)	(D)	(D)
Remanufactured metal forming machines 5/.....	(D)	(D)	(D)	(D)	(D)	(D)

D Withheld to avoid disclosing data for individual companies. X Not applicable.

1/Data includes the value of all types of machines exported, as reported by MQ333W survey panel.

2/Data were included in total "Metal cutting type machine tools."

3/Data were included in "Horizontal NC turning machines, valued at \$3,025 each or more."

4/Data were included in total "Machining centers."

5/Data were included in total "Metal forming type machine tools."

Table 3a. Shipments, Exports, and Imports of Metalworking Machinery: First Quarter 2007
 [Quantity in units. Value in thousands of dollars]

Product description	Manufacturers' shipments		Exports of domestic merchandise 1/ 2/		Imports for consumption 1/ 3/	
	Quantity	Value	Quantity	Value at port	Quantity	Value 4/
Boring and drilling machines, excluding multifunction NC machines, machining centers:						
Boring machines valued at \$3,025 each or more.....	(D)	(D)	99	2,378	329	21,767
Drilling machines:						
Valued under \$3,025 each.....	1,883	1,997	3,097	2,207	31,829	4,857
Valued at \$3,025 each or more.....	(D)	(D)	715	16,193	504	35,096
Gear cutting machines.....	(D)	(D)	4,174	10,727	117	31,800
Grinding, polishing, buffing, honing, and lapping machinery (except gear tooth grinding, lapping, polishing, and buffing machines):						
Valued under \$3,025 each.....	7,358	4,877	18,892	4,014	215,253	7,638
Valued at \$3,025 each or more.....	472	41,447	693	24,574	1,508	83,546
Lathes (turning machines) under \$3,025.....	(D)	(D)	821	936	4,948	3,416
Horizontal NC turning machines.....	1,292	80,857	188	22,723	2,131	233,864
Vertical NC turning machines.....	(D)	(D)	69	5,021	153	29,829
Nonnumerically controlled turning machines.....	151	1,418	458	21,058	1,205	20,141
Milling machines:						
Valued under \$3,025 each.....	(D)	(D)	488	839	2,676	1,960
Valued at \$3,025 each or more.....	257	7,342	351	9,638	1,176	34,997
Machining centers (multifunction NC machines).....	2,701	171,188	551	61,000	1,519	258,996
Drill, mill, and bore, vertical (automatic tool change):						
Y-axis travel less than 20 inches and 20 inches through 26 inches.....	(D)	(D)	461	50,427	781	67,626
Y-axis travel 26 inches and over.....	271	30,638	60	7,499	150	33,259
Drill, mill, and bore, horizontal (automatic tool change).....	(D)	(D)	-	-	550	145,334
Other machining centers.....	(D)	(D)	30	3,074	38	12,777
Station type machines.....	17	25,594	(NA)	(NA)	175	48,293
Other metal cutting machine tools:						
Valued under \$3,025 each.....	4,080	3,693	(NA)	(NA)	(NA)	(NA)
Valued at \$3,025 each or more.....	1,803	111,960	2,756	92,821	2,092	105,288
Punching and shearing machines:						
Valued under \$3,025 each.....	382	431	5,668	4,054	2,416	806
Valued at \$3,025 each or more.....	1,390	31,599	617	24,936	716	49,350
Bending and forming machines:						
Valued under \$3,025 each.....	425	944	5,020	3,504	25,776	3,940
Valued at \$3,025 each or more.....	1,089	60,780	1,045	21,966	948	38,891
Presses (except forging presses).....	409	35,940	7,516	15,622	5,658	34,668
All other metal forming type machine tools:						
Valued under \$3,025 each.....	(D)	(D)	(NA)	(NA)	(NA)	(NA)
Machines valued at \$3,025 each or more:						
Forging machines, including forging presses and die stamping presses, and die casting machines, all types.....	34	18,761	248	21,191	1,019	48,173
Other metal forming machines.....	308	39,126	(NA)	(NA)	(NA)	(NA)

- Represents zero. D Withheld to avoid disclosing data for individual companies. NA Not available.

1/For a comparison of North American Industry Classification System (NAICS)-based product codes, Schedule B export codes, and HTSUSA import codes, see Table 4.

2/Source: Census Bureau report EM 545, U.S. Exports.

3/Source: Census Bureau report IM 145, U.S. General Imports for Consumption.

4/Dollar value represents the c.i.f. (cost, insurance, and freight) value at first port of entry in the United States plus import duties.

Table 3b. Shipments, Exports, and Imports of Metalworking Machinery: Fourth Quarter 2006
 [Quantity in units. Value in thousands of dollars]

Product description	Manufacturers' shipments		Exports of domestic merchandise 1/ 2/		Imports for consumption 1/ 3/	
	Quantity	Value	Quantity	Value at port	Quantity	Value 4/
Boring and drilling machines, excluding multifunction NC machines, machining centers:						
Boring machines valued at \$3,025 each or more.....	(D)	(D)	105	3,775	306	16,537
Drilling machines:						
Valued under \$3,025 each.....	1,984	2,215	1,814	1,443	43,906	6,249
Valued at \$3,025 each or more.....	(D)	(D)	205	7,299	354	19,934
Gear cutting machines.....	(D)	(D)	494	12,813	111	42,071
Grinding, polishing, buffing, honing, and lapping machinery (except gear tooth grinding, lapping, polishing, and buffing machines):						
Valued under \$3,025 each.....	7,922	5,187	18,063	4,707	260,770	8,416
Valued at \$3,025 each or more.....	652	60,269	426	19,118	1,493	93,831
Lathes (turning machines) under \$3,025.....	(D)	(D)	646	927	4,139	3,450
Horizontal NC turning machines.....	1,362	78,751	158	20,087	2,050	239,379
Vertical NC turning machines.....	(D)	(D)	38	4,685	139	36,251
Nonnumerically controlled turning machines.....	258	2,478	398	15,622	1,269	20,674
Milling machines:						
Valued under \$3,025 each.....	(D)	(D)	725	1,197	1,967	1,601
Valued at \$3,025 each or more.....	292	8,970	418	9,967	1,214	34,615
Machining centers (multifunction NC machines).....	2,932	185,087	627	67,265	1,601	280,072
Drill, mill, and bore, vertical (automatic tool change):						
Y-axis travel less than 20 inches and 20 inches through 26 inches.....	(D)	(D)	478	52,404	875	88,441
Y-axis travel 26 inches and over.....	271	29,523	80	9,116	186	38,709
Drill, mill, and bore, horizontal (automatic tool change).....	(D)	(D)	-	-	505	137,017
Other machining centers.....	(D)	(D)	69	5,745	35	15,905
Station type machines.....	32	38,911	80	19,219	80	39,618
Other metal cutting machine tools:						
Valued under \$3,025 each.....	3,644	3,373	(NA)	(NA)	(NA)	(NA)
Valued at \$3,025 each or more.....	1,906	130,616	3,774	137,719	2,048	125,978
Punching and shearing machines:						
Valued under \$3,025 each.....	261	310	16,047	2,750	2,549	784
Valued at \$3,025 each or more.....	(D)	(D)	614	21,972	655	50,521
Bending and forming machines:						
Valued under \$3,025 each.....	411	845	4,176	3,912	27,157	3,216
Valued at \$3,025 each or more.....	1,105	67,516	1,060	31,995	2,191	94,302
Presses (except forging presses).....	500	44,061	4,026	21,814	2,865	33,974
All other metal forming type machine tools:						
Valued under \$3,025 each.....	(D)	(D)	(NA)	(NA)	(NA)	(NA)
Machines valued at \$3,025 each or more:						
Forging machines, including forging presses and die stamping presses, and die casting machines, all types.....	34	18,761	121	16,147	631	54,161
Other metal forming machines.....	252	30,847	(NA)	(NA)	(NA)	(NA)

- Represents zero. D Withheld to avoid disclosing data for individual companies. NA Not available.

1/For a comparison of North American Industry Classification System (NAICS)-based product codes, Schedule B export codes, and HTSUSA import codes, see Table 4.

2/Source: Census Bureau report EM 545, U.S. Exports.

3/Source: Census Bureau report IM 145, U.S. General Imports for Consumption.

4/Dollar value represents the c.i.f. (cost, insurance, and freight) value at first port of entry in the United States plus import duties.

Table 4. Comparison of the North American Industry Classification System (NAICS)-Based Product Codes with Schedule B Export Codes and HTSUSA Import Codes: 2007

Product code	Product description	Export code 1/	Import code 2/
	Boring machines, excluding multifunction NC machines, machining centers: Machines valued at \$3,025 each or more:		
333512A103	Horizontal boring, drilling, and milling machines, including floor, table and rail mounted, and all other boring machines (except boring lathes).....	8459.31.0010 8459.31.0040 8459.31.0070 8459.39.0040 8459.39.0050 8459.40.0040 8459.40.0050 8459.40.0070 8459.40.0080	8459.31.0010 8459.31.0040 8459.31.0070 8459.39.0040 8459.39.0050 8459.40.0040 8459.40.0050 8459.40.0070 8459.40.0080
333512A105	Precision and jig boring machines, including horizontal, vertical, and all other precision boring machines.....	8459.10.0000	8459.10.0000
	Drilling machines, excluding machining centers:		
333512A111	All drilling machines valued under \$3,025 each.....	8459.29.0020	8459.29.0020
	Machines valued at \$3,025 each or more:		
333512A113	Vertical, upright drilling machines, including plain upright and heavy duty.....	8459.29.0070	8459.29.0070
333512A120	Multiple spindle drilling machines (cluster of spindles driven from one central power unit).....	8459.29.0040	8459.29.0040
333512A117	Deep hole drilling machines.....	8459.21.0080	8459.21.0080
333512A123	All other drilling machines, including bench type sensitive vertical and radial.....	8459.29.0050 8459.29.0090	8459.29.0050 8459.29.0090
3335121200	Gear cutting machines, including gear hobbers, shapers, teeth finishing, bevel gear generators, and all other gear cutting machines.....	8461.40.1050 8461.40.1070 8461.40.1090 8461.40.5040 8461.40.5060	8461.40.1020 8461.40.1030 8461.40.1040 8461.40.1060 8461.40.5040 8461.40.5050 8461.40.5070
	Grinding, polishing, buffing, honing, and lapping machinery (except gear tooth grinding, lapping, polishing, and buffing machines):		
3335122101	All grinding, polishing, buffing, honing, and lapping machines valued under \$3,025 each.....	8460.39.0020 8460.40.0020 8460.90.0020	8460.39.0020 8460.40.8020 8460.90.8020
	Machines valued at \$3,025 each or more:		
3335122110	External cylindrical grinding machines AND		
3335122120	Internal cylindrical grinding machines AND		
3335122136	All other disc grinders, including bench, floor, snag, double spindle grinders, and abrasive belt grinders AND		
3335122151	All other grinding machines, including planer type, thread grinding, and deburring machines.....	8460.21.0080 8460.29.0010 8460.29.0030 8460.29.0050	8460.21.0080 8460.29.0010 8460.29.0030 8460.29.0050

Table 4. Comparison of the North American Industry Classification System (NAICS)-Based Product Codes with Schedule B Export Codes and HTSUSA Import Codes: 2007

Product code	Product description	Export code 1/	Import code 2/
3335122122	Surface grinding machines.....	8460.11.0080 8460.19.0010 8460.19.0050	8460.11.0080 8460.19.0010 8460.19.0050
3335122142	Tool, cutter, and drill point grinding machines, including universal and special.....	8460.31.0080	8460.31.0080
3335122156	Honing and lapping machines (except gear honing and lapping): Internal, including combination bore, hone, and external (except flat surface lapping machines) AND		
3335122161	Flat surface lapping machines (except gear lapping) AND		
3335122166	Polishing and buffing machines (including speed lathes and multistation type).....	8460.40.0060 8460.40.0080 8460.90.0060 8460.90.0080	8460.40.4060 8460.40.8080 8460.90.4060 8460.90.8080
3335123131	Lathes (turning machines): All lathes valued under \$3,025 each.....	8458.19.0020 8458.99.5060	8458.19.0020 8458.99.5060
	Machines valued at \$3,025 each or more: Horizontal spindle: Single spindle NC turning machine:		
3335123107	Chuck sizes less than 10".....	8458.11.0050	8458.11.0050
3335123116	Chuck sizes from 10" but less than 15".....	8458.11.0090	8458.11.0090
3335123127	Chuck sizes 15" and over, and multiple spindle NC turning machines.....	8458.11.0010	8458.11.0010
3335123126	Vertical spindle.....	8458.91.1060 8458.91.1080 8458.91.5050 8458.91.5070	8458.91.1060 8458.91.1080 8458.91.5050 8458.91.5070
3335123134	Nonnumerically controlled turning machines valued at \$3,025 each or more.....	8458.19.0030 8458.19.0050 8458.19.0070 8458.19.0090 8458.99.1050 8458.99.5090	8458.19.0030 8458.19.0050 8458.19.0070 8458.19.0090 8458.99.1050 8458.99.5090
3335124101	Milling machines, excluding machining centers: All milling machines valued under \$3,025 each.....	8459.59.0020 8459.69.0020	8459.59.0020 8459.69.0020
3335124125	All milling machines valued at \$3,025 each or more.....	8459.51.0080 8459.59.0030 8459.61.0080 8459.69.0050 8459.69.0070 8459.69.0090	8459.51.0080 8459.59.0030 8459.61.0080 8459.69.0050 8459.69.0070 8459.69.0090
3335127101	Machining centers (multifunctions NC machines): Drill, mill, and bore, vertical (automatic tool change): Y-axis travel less than 20" AND		
3335127106	Y-axis travel 20" through 26" AND		
3335127111	Y-axis travel over 26".....	8457.10.0015 8457.10.0025	8457.10.0015 8457.10.0025

Table 4. Comparison of the North American Industry Classification System (NAICS)-Based Product Codes with Schedule B Export Codes and HTSUSA Import Codes: 2007

Product code	Product description	Export code 1/	Import code 2/
	Drill, mill, and bore, horizontal (automatic tool change):		
3335127112	Under 500mm pallet AND		
3335127113	500mm-800mm pallet AND		
3335127114	Over 800mm pallet.....	8457.10.0036 8457.10.0039	8457.10.0055 8457.10.0060 8457.10.0065 8457.10.0070
3335127146	All other machining centers, including special machining centers, special adapting of standard machining centers, and machining centers with indexing turret.....	8457.10.0045	8457.10.0075
	Station type machines:		
3335128101	Dial or rotary, trunnion, and center column AND		
3335128106	Transfer (free, palletized shuttle) AND		
3335128111	Other station type.....	8457.20.0010 8457.20.0090 8457.30.0010 8457.30.0090	8457.20.0010 8457.20.0090 8457.30.0010 8457.30.0090
	Other metal cutting machine tools:		
3335129101	Other metal cutting machine tools, valued under \$3,025.....	8459.70.0060 8461.20.0070 8461.30.0040 8461.50.0020 8461.90.6020 8461.90.6050	8459.70.8060 8461.20.8070 8461.30.8040 8461.50.8020 8461.90.6020 8461.90.6050
	Machines valued at \$3,025 each or more:		
3335129106	Broaching machines, including internal surface and all other broaching machines.....	8461.30.0060 8461.30.0080	8461.30.4060 8461.30.8080
	Sawing and cutoff machines:		
3335129122	Band saws - vertical AND		
3335129123	Band saws - horizontal AND		
3335129126	All other sawing and cutoff machines.....	8461.50.0050 8461.50.0090	8461.50.4050 8461.50.8090
3335129131	Spark erosion, ultrasonic and electrolytic machines all types.....	8456.20.0000 8456.30.0000 8456.90.3000	8456.20.1010 8456.20.1050 8456.30.1020 8456.30.1050 8456.30.1070 8456.90.3000
3335129136	Miscellaneous metal cutting machine tools, including rifling, centering, keyseating, pointing, chemfering, facing, shaving, grooving, countersinking, burring, reaming, screw and nut slotting machines, threading planers, and shapers.....	8456.10.0002 8459.70.0020 8459.70.0080 8461.20.0010 8461.20.0090 8461.90.3040 8461.90.3080 8461.90.6030 8461.90.6090	8456.10.1010 8456.10.1020 8459.70.4000 8459.70.8080 8461.20.4000 8461.20.8090 8461.90.3040 8461.90.3080 8461.90.6030 8461.90.6090

Table 4. Comparison of the North American Industry Classification System (NAICS)-Based Product Codes with Schedule B Export Codes and HTSUSA Import Codes: 2007

Product code	Product description	Export code 1/	Import code 2/
	Punching and shearing machines:		
3335131101	All punching and shearing machines valued under \$3,025 each.....	8462.39.0020 8462.49.0020	8462.39.0020 8462.49.0020
	Machines valued at \$3,025 or more:		
	Power operated only:		
	Plate shearing machines (squaring, slitting, etc.):		
3335131106	Punches, including combination punching and shearing machines AND		
3335131111	Punching machines fixed position and two axes positioning table AND		
3335131116	Mechanical AND		
3335131121	Hydraulic AND		
3335131126	Other power operated punching & shearing machines.....	8462.39.0050 8462.41.0080 8462.49.0050 8462.31.0080	8462.39.0050 8462.41.0080 8462.49.0050 8462.31.0080
	Bending and forming machines:		
3335131131	All bending and forming machines valued under \$3,025.....	8462.29.0020	8462.29.0020
	Machines valued at \$3,025 each or more:		
3335131136	Press brakes all types AND		
3335131145	Roll bending machines, including sheet, plate, angles, bars, shapes, and tubes, and rotary bending and forming machines, including rotary head AND		
3335131161	Other bending and forming machines, including folders.....	8462.29.0030 8462.29.0040 8462.29.0050	8462.29.0030 8462.29.0040 8462.29.0050
	Presses except forging presses:		
3335133101	All presses valued under \$3,025 each.....	8462.99.0020	8462.99.8020
	Machines valued at \$3,025 each or more:		
3335133109	Mechanical presses: Gap or C-frame.....	8462.99.0030 8462.99.0040	8462.99.4030 8462.99.8045
3335133136	Automatic presses, strip or coil field AND		
3335133143	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.....	8462.99.0060	8462.99.8060
	Hydraulic presses (metalworking only)		
	Vertical single action, all tonnages		
3335133146	Housing or straight side type AND		
3335133151	Column type (open rod) AND		
	Gap or C-frame:		
3335133156	15 tons and under AND		
3335133161	16 tons to 35 tons AND		
3335133166	Over 35 tons AND		
3335133171	Other hydraulic and pneumatic presses, including horizontal.....	8462.91.0060 8462.91.0090	8462.91.4060 8462.91.8090
	All other metal forming type machine tools:		
3335135101	All other metal forming type machine tools valued under \$3,025 each.....	8463.20.0060 8463.90.0060	8463.20.0060 8463.90.0060

Table 4. Comparison of the North American Industry Classification System (NAICS)-Based Product Codes with Schedule B Export Codes and HTSUSA Import Codes: 2007

Product code	Product description	Export code 1/	Import code 2/
	Machines valued at \$3,025 each or more:		
3335135118	Forging machines, including forging presses and die stamping preses, and die casting machines all types AND		
3335135121	Riveting machines (except hand held portable types) AND		
3335135126	All other metal forming type machine tools.....	8462.10.0030	8462.10.0030
		8462.10.0035	8462.10.0035
		8462.10.0055	8462.10.0055
		8454.30.0010	8454.30.0010
		8463.20.0080	8463.20.0080
		8463.90.0080	8463.90.0080

1/Source: 2007 edition, Harmonized System-Based Schedule B, Statistical Classification of Domestic and Foreign Commodities Exported from the United States.

2/Source: Harmonized Tariff Schedule of the United States, Annotated (2007).