

# Metal Stamping: 2002

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## 2002 Economic Census

*Manufacturing*

Industry Series



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U.S. Department of Commerce  
Economics and Statistics Administration  
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-- Not applicable for this report.

**Table 1. Historical Statistics for the Industry: 2002 and Earlier Years**

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry and year <sup>1</sup>	Com- panies <sup>2</sup>	All estab- lish- ments <sup>3</sup>	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
			Number <sup>4</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
332116, Metal stamping .....											
2002..	1 703	1 795	66 307	2 423 484	49 971	100 508	1 518 011	5 239 233	3 995 192	9 236 546	'317 455
2001..	N	N	91 183	3 079 598	69 762	140 112	1 971 039	6 474 382	5 545 629	12 113 492	519 256
2000..	N	N	98 575	3 413 207	76 978	160 686	2 235 191	8 326 083	6 381 795	14 621 475	717 635
1999..	N	N	96 713	3 231 147	73 967	152 500	2 084 809	7 388 409	6 040 742	13 418 964	588 487
1998..	N	N	95 402	3 159 060	74 085	154 658	2 042 318	6 856 422	5 791 217	12 614 240	586 788
1997..	2 051	2 163	92 511	3 022 396	71 443	148 535	1 950 581	6 471 538	5 637 898	12 078 985	544 083

<sup>1</sup>Statistics presented for years ending in 2 and 7 are census data. Interim census years are derived in a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures (ASM).

<sup>2</sup>For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

<sup>3</sup>Includes establishments with payroll at any time during the year.

<sup>4</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

**Table 2. Industry Statistics for Selected States: 2002**

[States that are a disclosure or with less than 100 employees are not shown. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

Industry and geographic area	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
		Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>3</sup>	Hours (1,000)	Wages (\$1,000)				
<b>332116, Metal stamping</b>												
United States.....	2	1 795	837	66 307	2 423 484	49 971	100 508	1 518 011	5 239 233	3 995 192	9 236 546	'317 455
Alabama.....	1	21	11	1 247	32 220	994	2 028	22 204	61 113	61 934	124 844	'3 646
Arizona.....	2	18	9	598	25 813	492	1 089	16 459	68 227	47 162	118 024	'2 487
Arkansas.....	4	7	4	211	6 139	144	295	3 481	13 706	8 933	22 479	'386
California.....	3	212	76	5 133	191 901	3 641	7 498	104 914	339 165	329 878	673 043	'13 756
Colorado.....	2	11	6	371	10 857	305	640	7 764	18 717	13 638	32 540	'1 011
Connecticut.....	1	84	40	3 160	140 748	2 435	5 122	96 880	254 976	213 245	468 289	'14 174
Florida.....	3	33	12	1 168	44 819	800	1 643	23 858	86 563	46 064	138 628	'6 812
Georgia.....	4	19	10	927	33 340	729	1 504	22 347	61 819	49 559	111 783	'9 769
Idaho.....	—	6	2	147	4 412	92	187	2 479	8 897	3 402	12 737	'395
Illinois.....	2	216	107	10 329	378 884	7 941	15 558	245 975	839 041	703 009	1 542 204	'40 707
Indiana.....	1	62	33	2 296	83 408	1 744	3 757	55 435	174 452	169 033	339 427	'8 163
Kansas.....	3	6	3	132	4 487	99	200	2 718	9 102	8 834	18 266	'448
Kentucky.....	2	23	15	1 688	53 680	1 270	2 540	36 194	133 673	140 273	273 131	'16 413
Massachusetts.....	1	57	22	1 671	65 946	1 255	2 562	40 089	123 153	73 955	197 841	'3 217
Michigan.....	2	94	39	2 731	94 938	2 103	4 128	61 168	190 791	155 363	348 717	'11 130
Minnesota.....	—	67	41	3 956	146 359	2 964	5 790	93 721	351 154	147 815	497 477	'27 582
Mississippi.....	3	10	5	346	10 804	252	567	7 175	14 123	14 639	29 032	'785
Missouri.....	—	33	13	1 050	37 252	765	1 376	21 498	80 898	61 069	143 161	'4 870
New Hampshire.....	7	12	4	365	13 659	282	559	8 310	26 519	19 275	45 808	'1 663
New Jersey.....	1	96	29	2 577	103 296	1 908	3 862	64 728	219 572	137 912	352 619	'16 350
New York.....	2	95	46	2 830	99 757	2 169	4 207	62 910	200 372	136 891	336 416	'26 511
North Carolina.....	1	28	16	866	30 876	643	1 331	19 002	71 899	95 379	163 690	'3 144
Ohio.....	1	171	89	6 966	264 860	5 365	10 835	168 931	580 947	501 052	1 080 705	'35 568
Oklahoma.....	7	14	7	424	11 466	291	551	7 168	31 149	22 200	53 531	'2 015
Oregon.....	5	16	6	489	17 306	367	775	10 904	38 123	25 780	63 758	'1 273
Pennsylvania.....	1	81	43	4 311	147 689	3 150	6 134	83 051	311 200	218 762	533 054	'18 461
Rhode Island.....	5	37	9	573	22 854	422	813	13 051	47 800	35 376	80 355	'2 742
South Carolina.....	5	12	5	408	16 355	311	659	10 811	33 530	40 879	74 284	'2 949
Texas.....	4	70	33	1 736	57 280	1 308	2 716	36 252	122 992	95 301	218 673	'10 753
Utah.....	—	6	4	343	9 373	178	363	4 160	17 855	28 128	45 188	'810
Virginia.....	—	10	5	252	7 742	202	389	5 067	18 967	11 698	30 434	'2 513
Washington.....	—	6	2	106	4 696	82	171	3 177	8 203	5 143	13 255	'123
Wisconsin.....	1	85	55	4 644	175 820	3 537	7 156	106 382	528 187	255 204	784 681	'17 139

<sup>1</sup>Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

<sup>2</sup>Includes establishments with payroll at any time during the year.

<sup>3</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

**Table 3. Detailed Statistics by Industry: 2002**

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Item	Value
<b>332116, Metal stamping</b>	
Companies <sup>1</sup> .....	number.. 1 703
All establishments <sup>2</sup> .....	number.. 1 795
Establishments with 1 to 19 employees.....	number.. 958
Establishments with 20 to 99 employees.....	number.. 672
Establishments with 100 employees or more.....	number.. 165
All employees <sup>3</sup> .....	number.. 66 307
Total compensation.....	\$1,000.. 2 933 637
Annual payroll.....	\$1,000.. 2 423 484
Total fringe benefits.....	\$1,000.. 510 153
Production workers, average for year.....	number.. 49 971
Production workers on March 12.....	number.. 49 835
Production workers on May 12.....	number.. 49 984
Production workers on August 12.....	number.. 50 106
Production workers on November 12.....	number.. 49 743
Production worker hours.....	1,000.. 100 508
Production worker wages.....	\$1,000.. 1 518 011
Total cost of materials.....	\$1,000.. 3 995 192
Materials, parts, containers, packaging, etc., used.....	\$1,000.. 3 340 654
Resales.....	\$1,000.. 162 701
Purchased fuels.....	\$1,000.. 35 934
Purchased electricity.....	\$1,000.. 92 018
Contract work.....	\$1,000.. 363 885
Quantity of electricity purchased for heat and power.....	1,000 kWh.. 1 327 340
Quantity of electricity generated less sold for heat and power.....	1,000 kWh.. 2 033
Total value of shipments.....	\$1,000.. 9 236 546
Primary products value of shipments.....	\$1,000.. 7 992 052
Secondary products value of shipments.....	\$1,000.. 966 607
Total miscellaneous receipts.....	\$1,000.. 277 887
Value of resales.....	\$1,000.. 182 855
Contract receipts.....	\$1,000.. 33 499
Other miscellaneous receipts.....	\$1,000.. 61 533
Primary products specialization ratio.....	percent.. 89
Value of primary products shipments made in all industries.....	\$1,000.. 8 843 331
Value of primary products shipments made in this industry.....	\$1,000.. 7 992 052
Value of primary products shipments made in other industries.....	\$1,000.. 851 279
Coverage ratio.....	percent.. 90
Value added.....	\$1,000.. 5 239 233
Total inventories, beginning of year.....	\$1,000.. 1 050 934
Finished goods inventories.....	\$1,000.. 420 915
Work-in-process inventories.....	\$1,000.. 248 687
Materials and supplies inventories.....	\$1,000.. 381 332
Total inventories, end of year.....	\$1,000.. 1 028 452
Finished goods inventories.....	\$1,000.. 426 480
Work-in-process inventories.....	\$1,000.. 241 001
Materials and supplies inventories.....	\$1,000.. 360 971
Gross value of depreciable assets (acquisition costs) at beginning of year.....	\$1,000.. 4 566 705
Total capital expenditures (new and used).....	\$1,000.. 317 455
Buildings and other structures (new and used).....	\$1,000.. 37 090
Machinery and equipment (new and used).....	\$1,000.. 280 365
Automobiles, trucks, etc., for highway use.....	\$1,000.. 11 249
Computers and peripheral data processing equipment.....	\$1,000.. 26 317
All other expenditures for machinery and equipment.....	\$1,000.. 242 799
Total retirements.....	\$1,000.. 125 033
Gross value of depreciable assets at end of year.....	\$1,000.. 4 669 127
Depreciation charges during year.....	\$1,000.. 317 740
Total rental payments.....	\$1,000.. 176 007
Buildings and other structures.....	\$1,000.. 122 617
Machinery and equipment.....	\$1,000.. 53 390
Total other expenses <sup>4</sup> .....	\$1,000.. 1 954 815
Response coverage ratio <sup>5</sup> .....	percent.. 78
Repair and maintenance services of buildings and/or machinery <sup>4</sup> .....	\$1,000.. 66 666
Communications services <sup>4</sup> .....	\$1,000.. 20 960
Legal services <sup>4</sup> .....	\$1,000.. 15 544
Accounting, auditing, and bookkeeping services <sup>4</sup> .....	\$1,000.. 18 732
Advertising and promotional services <sup>4</sup> .....	\$1,000.. 23 657
Expensed computer hardware and supplies and purchased computer services <sup>4</sup> .....	\$1,000.. 16 021
Refuse removal (including hazardous waste) services <sup>4</sup> .....	\$1,000.. 8 702
Management consulting and administrative services <sup>4</sup> .....	\$1,000.. 22 545
Taxes and license fees <sup>4</sup> .....	\$1,000.. 34 687
All other expenses <sup>4</sup> .....	\$1,000.. 1 727 302

<sup>1</sup>For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

<sup>2</sup>Includes establishments with payroll at any time during the year.

<sup>3</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

<sup>4</sup>Based on 2002 Annual Survey of Manufactures (ASM) sample data.

<sup>5</sup>A response coverage ratio is derived for this item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight) for those Annual Survey of Manufactures (ASM) establishments that reported to the weighted total employment for all ASM establishments classified in this industry.

Note 1: The amounts shown for other expenses reflect only those services that establishments purchase from other companies.

Note 2: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

**Table 4. Industry Statistics by Employment Size: 2002**

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Employment size class	E <sup>1</sup>	All establishments <sup>2</sup>	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>3</sup>	Hours (1,000)	Wages (\$1,000)				
<b>332116, Metal stamping</b>											
All establishments .....	2	1 795	66 307	2 423 484	49 971	100 508	1 518 011	5 239 233	3 995 192	9 236 546	'317 455
Establishments with—											
1 to 4 employees .....	9	392	878	30 677	689	1 335	20 080	64 893	50 481	116 010	'2 675
5 to 9 employees .....	7	290	1 922	73 010	1 490	3 018	47 616	146 730	113 485	259 379	'5 072
10 to 19 employees .....	3	276	3 985	155 570	2 935	5 935	92 387	287 261	264 975	553 883	'17 372
20 to 49 employees .....	1	444	13 993	511 862	10 469	21 004	312 391	1 091 211	765 964	1 850 397	'62 057
50 to 99 employees .....	2	228	15 894	586 381	11 801	24 287	358 080	1 235 855	946 224	2 176 849	'93 616
100 to 249 employees .....	2	141	20 118	738 965	15 217	30 961	480 624	1 661 436	1 238 716	2 914 811	'74 162
250 to 499 employees .....	1	16	4 734	155 135	3 853	7 968	112 292	275 151	258 648	530 818	'30 275
500 to 999 employees .....	—	8	4 783	171 884	3 517	6 000	94 541	476 696	356 699	834 399	'32 226
1,000 to 2,499 employees .....	—	—	—	—	—	—	—	—	—	—	—
2,500 employees or more .....	—	—	—	—	—	—	—	—	—	—	—
Administrative records <sup>4</sup> .....	9	557	2 336	84 926	1 876	3 786	56 613	164 254	137 486	301 579	'5 922

<sup>1</sup>Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

<sup>2</sup>Includes establishments with payroll at any time during the year.

<sup>3</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

<sup>4</sup>Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. Data are also included in respective size classes shown.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

**Table 5. Industry Statistics by Primary Product Class Specialization: 2002**

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry or product class code	Industry or primary product class	All establishments <sup>1</sup>	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Hours (1,000)	Wages (\$1,000)				
332116	Metal stamping.....	1 795	66 307	2 423 484	49 971	100 508	1 518 011	5 239 233	3 995 192	9 236 546	'317 455
3321161	Job stampings, except automotive ..	755	45 484	1 666 118	34 427	69 303	1 044 871	3 618 572	2 802 158	6 416 989	'242 934
3321163	Metal spinning products, excluding cooking and kitchen utensils .....	24	1 026	37 748	788	1 674	24 161	75 459	38 597	114 007	'2 583
3321166	Stamped and pressed metal end products, including vitreous (porcelain) enameled products .....	150	10 764	400 231	7 713	15 352	240 668	923 453	681 082	1 613 668	'44 990

<sup>1</sup>Includes establishments with payroll at any time during the year.

<sup>2</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

**Table 6a. Products Statistics: 2002 and 1997**

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Product code	Product	Number of companies with shipments of \$100,000 or more	Quantity of production for all purposes	Product shipments	
				Quantity	Value (\$1,000)
332116	Metal stamping .....	2002.. N 1997.. N	X X	X X	8 843 331 11 664 699
3321161	Job stampings, except automotive .....	2002.. N 1997.. N	X X	X X	5 969 083 7 976 387
33211611	Recreational vehicle metal job stampings (motor homes, travel trailers, etc.) .....	2002.. N 1997.. N	X X	X X	492 088 596 013
3321161101	Recreational vehicle metal job stampings (motor homes, travel trailers, etc.) .....	2002.. 74 1997.. 78	X X	X X	259 401 158 219
3321161115	Agricultural equipment metal job stampings, including tractor .....	2002.. 85 1997.. 111	X X	X X	232 687 437 794
33211612	Motor and generator metal job stampings .....	2002.. N 1997.. N	X X	X X	381 462 767 141
3321161205	Motor and generator metal job stampings .....	2002.. 88 1997.. 147	X X	X X	381 462 767 141
33211614	Computer and office machine metal job stampings .....	2002.. N 1997.. N	X X	X X	390 553 1 338 252
3321161421	Computer metal job stampings .....	2002.. 102 1997.. 177	X X	X X	341 392 1 176 751
3321161441	Office machine metal job stampings, excluding computer .....	2002.. 30 1997.. 64	X X	X X	49 161 161 501
33211615	Electrical appliance metal job stampings (residential, commercial, and industrial) .....	2002.. N 1997.. N	X X	X X	627 350 869 948
3321161525	Electrical appliance metal job stampings, except refrigeration and laundry equipment .....	2002.. 116 1997.. 185	X X	X X	240 692 302 638
3321161561	Refrigeration metal job stampings (residential, commercial, and industrial) .....	2002.. 57 1997.. 66	X X	X X	133 423 243 548
3321161571	Stove, heater, and air-conditioner metal job stampings (residential, commercial, and industrial), except automotive .....	2002.. 81 1997.. 103	X X	X X	202 452 221 255
3321161584	Laundry equipment metal job stampings (residential, commercial, and industrial) .....	2002.. 24 1997.. 37	X X	X X	50 783 102 507
33211613	Other metal job stampings .....	2002.. N 1997.. N	X X	X X	3 556 366 3 945 166
3321161311	Aviation metal job stampings .....	2002.. 71 1997.. 98	X X	X X	285 987 175 018
3321161331	Furniture metal job stampings .....	2002.. 86 1997.. 118	X X	X X	198 173 230 031
3321161352	Radio and phonograph metal job stampings, except automotive .....	2002.. 11 1997.. 20	X X	X X	43 456 31 163
3321161354	Television metal job stampings .....	2002.. 26 1997.. 48	X X	X X	105 938 189 445
3321161388	Other industrial equipment metal job stampings .....	2002.. 284 1997.. 364	X X	X X	764 691 833 722
3321161398	Other metal job stampings, except automotive .....	2002.. 456 1997.. 691	X X	X X	2 158 121 2 485 787
3321161Y	Job stampings, except automotive, nsk .....	2002.. N 1997.. N	X X	X X	521 264 459 867
3321161YVW	Job stampings, except automotive, nsk .....	2002.. N 1997.. N	X X	X X	521 264 459 867
3321163	Metal spinning products, excluding cooking and kitchen utensils .....	2002.. N 1997.. N	X X	X X	145 733 167 019
33211631	Metal spinning products, excluding cooking and kitchen utensils .....	2002.. N 1997.. N	X X	X X	145 733 167 019
3321163100	Metal spinning products, excluding cooking and kitchen utensils .....	2002.. 30 1997.. 69	X X	X X	145 733 167 019
3321166	Stamped and pressed metal end products, including vitreous (porcelain) enameled products .....	2002.. N 1997.. N	X X	X X	1 643 049 N
33211663	Metal electronic enclosures (stamped and pressed), excluding computer stampings .....	2002.. N 1997.. N	X X	X X	480 167 N
3321166361	Metal electronic enclosures (stamped and pressed), excluding computer stampings .....	2002.. 85 1997.. N	X X	X X	480 167 N
33211661	Stamped and pressed vitreous (porcelain) enameled metal architectural parts (exterior and interior), including store front and curtain wall components .....	2002.. N 1997.. N	X X	X X	170 231 N
3321166101	Stamped and pressed vitreous (porcelain) enameled metal architectural parts (exterior and interior), including store front and curtain wall components .....	2002.. 21 1997.. N	X X	X X	170 231 N
33211662	Stamped and pressed metal end products, excluding spinning products and metal electric enclosures .....	2002.. N 1997.. N	X X	X X	992 651 N
3321166211	Other stamped and pressed vitreous (porcelain) enameled products (including refrigerator and laundry equipment parts and commercial and hospital utensils), except cooking and kitchen utensils .....	2002.. 24 1997.. N	X X	X X	113 224 N
3321166221	Stamped and pressed metal chemical milling products, milled contoured metal, and clad and bonded metal products .....	2002.. 9 1997.. N	X X	X X	26 257 N
3321166231	Perforated metal end products .....	2002.. 22 1997.. N	X X	X X	179 467 N

See footnotes at end of table.

**Table 6a. Products Statistics: 2002 and 1997—Con.**

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Product code	Product	Number of companies with shipments of \$100,000 or more	Quantity of production for all purposes	Product shipments	
				Quantity	Value (\$1,000)
332116	Metal stamping—Con.				
3321166	Stamped and pressed metal end products, including vitreous (porcelain) enameled products—Con.				
33211662	Stamped and pressed metal end products, excluding spinning products and metal electric enclosures—Con.				
3321166295	Other stamped and pressed metal end products, excluding spinning products .....	2002.. 127	X	X	673 703
		1997.. N	X	X	N
3321166Y	Stamped and pressed metal end products, including vitreous enameled products, nsk .....	2002.. N	X	X	—
		1997.. N	X	X	N
3321166YVV	Stamped and pressed metal end products, including vitreous enameled products, nsk .....	2002.. N	X	X	—
		1997.. N	X	X	N
332116W	Metal stamping, nsk, total .....	2002.. N	X	X	1 085 466
		1997.. N	X	X	610 043
332116WY	Metal stamping, nsk, total .....	2002.. N	X	X	1 085 466
		1997.. N	X	X	610 043
332116WYWW	Metal stamping, nsk, for nonadministrative-record establishments .....	2002.. N	X	X	788 412
		1997.. N	X	X	433 092
332116WYWY	Metal stamping, nsk, for administrative-record establishments .....	2002.. N	X	X	297 054
		1997.. N	X	X	176 951

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

**Table 6b. Product Class Shipments for Selected States: 2002 and 1997**

[Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in Table 2. Also, product classes are not shown if they are miscellaneous or "not specified by kind" classes. Statistics for some states are withheld because they are either less than \$2 million in product class shipments or they disclose data for individual companies in 2002. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographic definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS product class code	Product class and geographic area	Value of product shipments (\$1,000)
3321161	Job stampings, except automotive	
	United States .....	2002.. 5 969 083
	United States .....	1997.. 7 976 387
	Alabama .....	2002.. 92 579
	Alabama .....	1997.. 59 140
	Arizona .....	2002.. 83 259
	Arizona .....	1997.. 51 584
	Arkansas .....	2002.. 14 956
	Arkansas .....	1997.. N
	California .....	2002.. 434 002
	California .....	1997.. 615 386
	Colorado .....	2002.. 20 028
	Colorado .....	1997.. 74 711
	Connecticut .....	2002.. 300 237
	Connecticut .....	1997.. 418 838
	Florida .....	2002.. 89 742
	Florida .....	1997.. 120 810
	Georgia .....	2002.. 87 116
	Georgia .....	1997.. 75 074
	Illinois .....	2002.. 1 083 266
	Illinois .....	1997.. 1 580 542
	Indiana .....	2002.. 249 595
	Indiana .....	1997.. 326 511
	Kentucky .....	2002.. 230 760
	Kentucky .....	1997.. 235 602
	Massachusetts .....	2002.. 117 781
	Massachusetts .....	1997.. 257 272
	Michigan .....	2002.. 307 943
	Michigan .....	1997.. 394 131
	Minnesota .....	2002.. 297 710
	Minnesota .....	1997.. 583 558
	Mississippi .....	2002.. 14 056
	Mississippi .....	1997.. 29 607
Missouri .....	2002.. 86 676	
Missouri .....	1997.. 89 584	
New Hampshire .....	2002.. 40 717	
New Hampshire .....	1997.. 27 281	
New Jersey .....	2002.. 197 812	
New Jersey .....	1997.. 286 292	
New York .....	2002.. 154 273	
New York .....	1997.. 259 026	
North Carolina .....	2002.. 124 870	
North Carolina .....	1997.. 84 967	
Ohio .....	2002.. 636 087	
Ohio .....	1997.. 862 595	
Oklahoma .....	2002.. 15 228	
Oklahoma .....	1997.. 20 738	
Oregon .....	2002.. 47 698	
Oregon .....	1997.. 27 041	
Pennsylvania .....	2002.. 311 467	
Pennsylvania .....	1997.. 310 159	
Rhode Island .....	2002.. 52 693	
Rhode Island .....	1997.. 52 507	
South Carolina .....	2002.. 69 021	
South Carolina .....	1997.. 16 576	
Texas .....	2002.. 106 493	
Texas .....	1997.. 198 561	
Virginia .....	2002.. 15 785	
Virginia .....	1997.. 19 824	
Washington .....	2002.. 11 834	
Washington .....	1997.. 34 362	
Wisconsin .....	2002.. 470 633	
Wisconsin .....	1997.. 595 865	
3321163	Metal spinning products, excluding cooking and kitchen utensils	
	United States .....	2002.. 145 733
	United States .....	1997.. 167 019
	California .....	2002.. 12 827
	California .....	1997.. 21 741
Indiana .....	2002.. 31 004	
Indiana .....	1997.. 20 867	
Ohio .....	2002.. 7 446	
Ohio .....	1997.. 8 593	
3321166	Stamped and pressed metal end products, including vitreous (porcelain) enameled products	
	United States .....	2002.. 1 643 049
	United States .....	1997.. N
	Alabama .....	2002.. 15 366
	Alabama .....	1997.. N
	California .....	2002.. 107 247
	California .....	1997.. N
	Connecticut .....	2002.. 120 261
	Connecticut .....	1997.. N
	Florida .....	2002.. 28 472
	Florida .....	1997.. N
	Illinois .....	2002.. 279 271
	Illinois .....	1997.. N
	Indiana .....	2002.. 36 516
	Indiana .....	1997.. N
	Massachusetts .....	2002.. 60 507
	Massachusetts .....	1997.. N
Michigan .....	2002.. 29 961	
Michigan .....	1997.. N	
Minnesota .....	2002.. 147 388	
Minnesota .....	1997.. N	
Missouri .....	2002.. 42 972	
Missouri .....	1997.. N	
New Jersey .....	2002.. 42 552	
New Jersey .....	1997.. N	
New York .....	2002.. 90 783	

See footnotes at end of table.

**Table 6b. Product Class Shipments for Selected States: 2002 and 1997—Con.**

[Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in Table 2. Also, product classes are not shown if they are miscellaneous or "not specified by kind" classes. Statistics for some states are withheld because they are either less than \$2 million in product class shipments or they disclose data for individual companies in 2002. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographic definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS product class code	Product class and geographic area	Value of product shipments (\$1,000)	
3321166	Stamped and pressed metal end products, including vitreous (porcelain) enameled products—Con.		
	United States—Con.		
		1997..	N
	Ohio .....	2002..	247 292
		1997..	N
	Pennsylvania.....	2002..	135 120
		1997..	N
	Texas .....	2002..	41 060
		1997..	N
	Wisconsin .....	2002..	51 025
		1997..	N

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

**Table 7. Materials Consumed by Kind: 2002 and 1997**

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Material code	Material consumed	Quantity	Delivered cost (\$1,000)
332116	Metal stamping		
0090001	Total materials .....	2002.. X	3 340 654
		1997.. X	4 738 366
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products .....	2002.. X	65 190
		1997.. X	155 837
33200095	Other fabricated metal products (excluding castings and forgings) .....	2002.. X	333 260
		1997.. X	461 069
33151001	Iron and steel castings (rough and semifinished) .....	2002.. X	106 620
		1997.. X	40 449
33152011	Nonferrous (aluminum, copper, etc.) castings (rough and semifinished) .....	2002.. X	26 085
		1997.. X	10 080
33210000	Forgings .....	2002.. X	3 268
		1997.. X	N
33120071	Steel bars and bar shapes (excluding castings, forgings, and fabricated metal products) .....	2002.. X	72 295
		1997.. X	91 297
33120018	Steel sheet and strip (excluding tinplate) .....	2002.. X	747 575
		1997.. X	N
33120079	Steel plate .....	2002.. X	39 820
		1997.. X	57 670
33120025	Steel wire and wire products .....	2002.. X	48 618
		1997.. X	91 069
33120013	Steel tinplate, tin free steel, terneplate, and blackplate .....	1,000 s tons. 2002.. S	14 747
		1997.. S	36 028
33120028	All other steel shapes and forms (excluding castings, forgings, fabricated metal products, wire, wire products, tinplate, tin free steel terneplate, and blackplate) .....	2002.. X	107 151
		1997.. X	N
33142111	Copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) .....	2002.. X	86 162
		1997.. X	122 710
33131500	Aluminum and aluminum-base alloy sheet, plate, foil, and welded tubing .....	2002.. X	61 237
		1997.. X	N
33131600	Aluminum and aluminum-base alloy extruded shapes (including extruded rod, bar, pipe, tube, etc.) .....	mil lb. 2002.. S	9 421
		1997.. N	22 671
33100049	Other aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, sheet, plate, foil, welded tubing, extruded shapes, and fabricated metal products) .....	2002.. X	62 275
		1997.. X	73 974
33100082	Other nonferrous metal shapes and forms (excluding aluminum and aluminum-base alloy and copper and copper-base alloy castings, forgings, and fabricated metal products) .....	2002.. X	15 904
		1997.. X	N
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc. ....	2002.. X	15 065
		1997.. X	32 218
32551002	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied product .....	2002.. X	14 657
		1997.. X	N
32500051	All other chemicals and allied products (excluding plastics materials and resins and paints, varnishes and allied products) .....	2002.. X	11 529
		1997.. X	12 533
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes .....	2002.. X	22 877
		1997.. X	17 780
32221001	Paperboard containers, boxes, and corrugated paperboard .....	2002.. X	47 868
		1997.. X	88 559
32200007	Other paper and paperboard products .....	2002.. X	25 122
		1997.. X	20 720
33510000	Special dies, tools, die sets, jigs, and fixtures (excluding cutting tools for machine tools) .....	2002.. X	23 750
		1997.. X	68 038
00970099	All other materials and components, parts, containers, and supplies .....	2002.. X	592 220
		1997.. X	N
00971000	Materials, ingredients, containers, and supplies, nsk .....	2002.. X	787 938
		1997.. X	950 512

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.