

Aluminum Die-Casting Foundries: 2002

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2002 Economic Census

Manufacturing

Industry Series



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

Helping You Make Informed Decisions

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



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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 ¹	Com- panies ²	All estab- lish- ments ³	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 ⁴	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
331521, Aluminum die-casting foundries . . . 2002 . .	255	295	28 264	1 161 903	23 551	50 293	918 460	2 442 017	2 360 712	4 797 776	164 018
2001 . .	N	N	25 046	893 872	20 443	43 594	665 889	1 995 679	1 750 869	3 770 120	164 813
2000 . .	N	N	27 726	917 334	23 119	47 989	702 221	2 100 460	1 868 509	3 959 509	177 686
1999 . .	N	N	27 534	936 373	22 929	48 014	707 829	2 061 915	1 780 759	3 809 045	215 823
1998 . .	N	N	28 067	931 554	23 196	47 781	689 706	2 116 946	1 908 736	3 963 484	229 187
1997 . .	291	318	27 516	899 544	22 771	47 159	675 908	1 967 631	1 874 589	3 843 845	222 846

¹Statistics 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).

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

³Includes establishments with payroll at any time during the year.

⁴Number 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 ¹	All establishments ²		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 ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)				
331521, Aluminum die-casting foundries												
United States.....	—	295	186	28 264	1 161 903	23 551	50 293	918 460	2 442 017	2 360 712	4 797 776	'164 018
California	1	42	24	1 411	47 917	1 146	2 444	34 905	108 874	70 873	180 470	'8 686
Georgia	—	9	5	518	18 010	456	927	14 337	34 244	34 283	68 614	'2 419
Illinois	—	29	20	2 685	93 248	2 197	4 894	65 908	220 805	146 942	363 751	'16 793
Indiana	—	10	8	2 576	137 586	2 208	4 829	115 920	248 720	341 092	589 385	'30 621
Iowa	2	5	5	395	11 777	325	715	8 402	27 070	26 072	53 064	'1 702
Kentucky	—	6	4	1 186	40 900	1 055	2 194	36 232	103 313	126 866	229 655	'11 448
Michigan	—	37	26	5 845	314 023	4 807	10 092	256 748	487 486	594 686	1 083 786	'17 695
Minnesota	—	9	8	1 477	54 779	1 172	2 314	39 652	129 421	68 229	198 426	'2 140
Missouri	1	11	7	761	21 733	588	1 228	16 341	55 803	36 888	92 409	'3 742
New York	—	8	4	324	13 466	266	447	10 083	27 646	13 387	40 598	'2 356
Ohio	—	24	14	1 957	81 327	1 611	3 533	62 514	194 566	219 426	411 316	'20 122
Oregon	—	4	3	226	8 472	191	407	6 752	19 852	12 669	32 454	'338
Pennsylvania	1	15	8	706	24 257	584	1 170	18 501	54 047	39 580	93 884	'3 001
Tennessee	—	11	8	1 353	49 355	1 185	2 586	39 018	142 973	94 523	235 848	'6 881
Texas	1	7	3	670	20 728	583	1 335	17 894	35 156	31 210	66 347	'1 674
Wisconsin	—	22	16	3 386	134 328	2 869	6 291	108 430	333 760	329 778	665 531	'24 288

¹Some 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.

²Includes establishments with payroll at any time during the year.

³Number 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
331521, Aluminum die-casting foundries	
Companies ¹	number.. 255
All establishments ²	number.. 295
Establishments with 1 to 19 employees	number.. 109
Establishments with 20 to 99 employees	number.. 102
Establishments with 100 employees or more	number.. 84
All employees ³	number.. 28 264
Total compensation	\$1,000.. 1 478 611
Annual payroll	\$1,000.. 1 161 903
Total fringe benefits	\$1,000.. 316 708
Production workers, average for year	number.. 23 551
Production workers on March 12	number.. 23 458
Production workers on May 12	number.. 23 534
Production workers on August 12	number.. 23 624
Production workers on November 12	number.. 23 557
Production worker hours	1,000.. 50 293
Production worker wages	\$1,000.. 918 460
Total cost of materials	\$1,000.. 2 360 712
Materials, parts, containers, packaging, etc., used	\$1,000.. 1 932 290
Resales	\$1,000.. 117 345
Purchased fuels	\$1,000.. 83 526
Purchased electricity	\$1,000.. 91 142
Contract work	\$1,000.. 136 409
Quantity of electricity purchased for heat and power	1,000 kWh.. 1 826 591
Quantity of electricity generated less sold for heat and power	1,000 kWh.. -
Total value of shipments	\$1,000.. 4 797 776
Primary products value of shipments	\$1,000.. 4 268 572
Secondary products value of shipments	\$1,000.. 378 364
Total miscellaneous receipts	\$1,000.. 150 840
Value of resales	\$1,000.. 141 722
Contract receipts	\$1,000.. 4 217
Other miscellaneous receipts	\$1,000.. 4 901
Primary products specialization ratio	percent.. 92
Value of primary products shipments made in all industries	\$1,000.. 4 520 222
Value of primary products shipments made in this industry	\$1,000.. 4 268 572
Value of primary products shipments made in other industries	\$1,000.. 251 650
Coverage ratio	percent.. 94
Value added	\$1,000.. 2 442 017
Total inventories, beginning of year	\$1,000.. 325 442
Finished goods inventories	\$1,000.. 98 959
Work-in-process inventories	\$1,000.. 98 010
Materials and supplies inventories	\$1,000.. 128 473
Total inventories, end of year	\$1,000.. 328 527
Finished goods inventories	\$1,000.. 99 989
Work-in-process inventories	\$1,000.. 101 933
Materials and supplies inventories	\$1,000.. 126 605
Gross value of depreciable assets (acquisition costs) at beginning of year	\$1,000.. '2 392 843
Total capital expenditures (new and used)	\$1,000.. '164 018
Buildings and other structures (new and used)	\$1,000.. '10 642
Machinery and equipment (new and used)	\$1,000.. '153 376
Automobiles, trucks, etc., for highway use	\$1,000.. '2 969
Computers and peripheral data processing equipment	\$1,000.. '5 469
All other expenditures for machinery and equipment	\$1,000.. '144 938
Total retirements	\$1,000.. '117 847
Gross value of depreciable assets at end of year	\$1,000.. '2 439 014
Depreciation charges during year	\$1,000.. '227 046
Total rental payments	\$1,000.. 54 790
Buildings and other structures	\$1,000.. 20 842
Machinery and equipment	\$1,000.. 33 948
Total other expenses ⁴	\$1,000.. 344 647
Response coverage ratio ⁵	percent.. 86
Repair and maintenance services of buildings and/or machinery ⁴	\$1,000.. 83 783
Communications services ⁴	\$1,000.. 5 255
Legal services ⁴	\$1,000.. 3 167
Accounting, auditing, and bookkeeping services ⁴	\$1,000.. 2 709
Advertising and promotional services ⁴	\$1,000.. 1 138
Expensed computer hardware and supplies and purchased computer services ⁴	\$1,000.. 5 928
Refuse removal (including hazardous waste) services ⁴	\$1,000.. 35 078
Management consulting and administrative services ⁴	\$1,000.. 7 175
Taxes and license fees ⁴	\$1,000.. 13 978
All other expenses ⁴	\$1,000.. 186 436

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

²Includes establishments with payroll at any time during the year.

³Number 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.

⁴Based on 2002 Annual Survey of Manufactures (ASM) sample data.

⁵A 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 ¹	All establishments ²	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 ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)				
331521, Aluminum die-casting foundries											
All establishments	—	295	28 264	1 161 903	23 551	50 293	918 460	2 442 017	2 360 712	4 797 776	'164 018
Establishments with—											
1 to 4 employees	9	35	81	2 906	68	141	2 352	7 181	5 129	12 310	'283
5 to 9 employees	9	35	233	8 610	194	425	7 067	22 078	15 492	37 240	'1 260
10 to 19 employees	8	39	f	D	D	D	D	D	D	D	'1 781
20 to 49 employees	2	47	1 473	47 336	1 146	2 374	32 204	103 147	55 518	158 565	D
50 to 99 employees	1	55	4 123	142 637	3 313	6 900	100 164	370 464	334 630	705 562	'23 353
100 to 249 employees	—	61	9 394	337 561	7 674	16 645	251 503	785 074	642 582	1 427 434	'40 480
250 to 499 employees	—	16	5 573	210 806	4 556	9 973	159 793	490 715	421 973	907 844	'45 474
500 to 999 employees	—	5	3 284	126 312	2 979	6 477	112 555	314 464	355 748	670 410	27 395
1,000 to 2,499 employees	—	1	g	D	D	D	D	D	D	D	D
2,500 employees or more	—	1	h	D	D	D	D	D	D	D	D
Administrative records ⁴	9	92	794	29 249	676	1 464	24 084	74 426	53 632	128 058	'2 948

¹Some 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.

²Includes establishments with payroll at any time during the year.

³Number 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.

⁴Some 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 ¹	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 ²	Payroll (\$1,000)	Number ²	Hours (1,000)	Wages (\$1,000)				
331521	Aluminum die-casting foundries	295	28 264	1 161 903	23 551	50 293	918 460	2 442 017	2 360 712	4 797 776	'164 018
3315210	Aluminum die-castings	295	28 264	1 161 903	23 551	50 293	918 460	2 442 017	2 360 712	4 797 776	'164 018

¹Includes establishments with payroll at any time during the year.

²Number 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)	
331521	Aluminum die-casting foundries	2002..	N	X	X	4 520 222
		1997..	N	X	X	3 745 476
3315210	Aluminum die-castings	2002..	N	X	X	4 520 222
33152101	Aluminum and aluminum-base alloy die-castings	1997..	N	X	X	3 745 476
		2002..	N	X	X	4 373 644
3315210100	Aluminum and aluminum-base alloy die-castings ¹	1997..	N	X	X	3 644 370
		2002..	201	X	S	4 373 644
3315210100	Aluminum and aluminum-base alloy die-castings ¹	1997..	249	X	91 420.9	3 644 370
		2002..	N	X	X	146 578
3315210Y	Aluminum die-castings, nsk, total	2002..	N	X	X	101 106
3315210YWW	Aluminum die-castings, nsk, for nonadministrative-record establishments	1997..	N	X	X	34 988
		2002..	N	X	X	5 590
3315210YWY	Aluminum die-castings, nsk, for administrative-record establishments	1997..	N	X	X	111 590
		2002..	N	X	X	95 516

¹For additional detail, see Current Industrial Report MA331E, Nonferrous Castings.

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**

[Not applicable for this report.]

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)
331521	Aluminum die-casting foundries		
0090001	Total materials	X	1 932 290
	.....2002..	X	1 581 260
	.....1997..		
33142111	Copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	D
	.....2002..	X	D
	.....1997..		
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	632 723
	.....2002..	X	N
	.....1997..		
33149104	Zinc and zinc-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	14 097
	.....2002..	X	N
	.....1997..		
33141934	Magnesium and magnesium-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	1 414
	.....2002..	X	N
	.....1997..		
331000AG	All other nonferrous metal shapes and forms (excluding copper, aluminum, zinc, and magnesium-base alloy castings, forgings, and fabricated metal products)	X	1 902
	.....2002..	X	1 525
	.....1997..		
00190034	Copper and copper-base alloy scrap (excluding home scrap)	X	D
	.....2002..	X	N
	.....1997..		
00190014	Aluminum and aluminum-base alloy scrap (excluding home scrap)	X	196 395
	.....2002..	X	N
	.....1997..		
00190079	Other nonferrous metal scrap (excluding home scrap)	X	D
	.....2002..	X	N
	.....1997..		
33299700	Industrial patterns	X	D
	.....2002..	X	745
	.....1997..		
33350003	Industrial dies, molds, jigs, and fixtures	X	135 033
	.....2002..	X	51 227
	.....1997..		
001900A4	All other industrial and commercial machinery and computer equipment	X	22 567
	.....2002..	X	4 567
	.....1997..		
21232005	Sand	X	D
	.....2002..	X	1 948
	.....1997..		
32791001	Grinding wheels and other abrasive products, excluding industrial diamonds	X	13 193
	.....2002..	X	2 522
	.....1997..		
00970099	All other materials and components, parts, containers, and supplies	X	585 800
	.....2002..	X	D
	.....1997..		
00971000	Materials, ingredients, containers, and supplies, nsk	X	103 116
	.....2002..	X	157 317
	.....1997..		

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.