

CENSUS OF WORLD CASTING PRODUCTION

Global Casting Production Expands



Worldwide casting production grew by 5.3% during a busy 2017.

A MODERN CASTING STAFF REPORT

In 2017, global production increased to more than 109.8 million metric tons, an increase of 5.3% when compared to the previous year, according to this year's *Modern Casting* Census of World Casting Production. The nearly 110 million metric tons of metal castings produced in 2017 represent an increase of 5.5 million tons. This rate of growth comes after two years of less than a half percent growth.

Of the 33 countries that provided data for the past two years, 25 reported an expansion in annual volumes when comparing 2017 to 2016. Among the top-10 countries in total output, Russia had the highest growth in 2017 with an increase of 8.3% in production.

China increased its total production by two million metric tons to a total of 49.4 million. Meanwhile, the U.S. saw its tonnage increase by 4%, and the gray-iron heavy India saw an

increase of 6.2%.

Total production of iron increased, with gray iron growing 6% and ductile iron expanding by 3.8%. Steel output grew by 6%, while aluminum production jumped by 6.7%.

The data reported in the Census of World Casting Production is supplied by each nation's metalcasting association or similar representatives., as well as the World Foundry Organization and CAEF-The European Foundry Association. **MC**

2017 Casting Production (metric tons)

Country	Gray Iron	Ductile Iron	Malleable Iron	Steel	Copper Base	Aluminum	Magnesium	Zinc	Other Nonferrous	Total
Austria	42,900	102,900	A	10,800	-	148,287	-	-	-	304,887
Belarus	-	-	-	-	-	-	-	-	-	258,900
Belgium	26,900	8,400	A	7,300	-	799	-	-	-	43,399
Bosnia & Herzegovina*	17,500	9,100	-	1,350	-	10,500	-	-	-	38,450
Brazil	1,261,107	517,222	-	186,616	20,811	223,359	5,458	1,154	-	2,215,727
Bulgaria	30,300	9,200	A	10,400	292	5,540	-	42	-	55,774
Canada	330,841**	-	-	90,091**	14,237**	211,374 ^B	-	-	-	646,543
China	21,150,000	13,750,000	600,000	5,550,000	800,000	7,300,000 ^C	-	-	250,000	49,400,000
Croatia*	31,100	11,800	-	50	221	25,174	-	25	15	68,385
Czech Republic	176,000	55,000	A	64,000	20,000	101,000	-	1,000	-	417,000
Denmark	27,500	56,100	A	-	1,292	3,014	-	-	100	88,006
Egypt	175,000	-	-	10,000	8,000	7,000	-	-	-	200,000
Finland	19,500	36,300	A	6,200	3,247	2,548	-	101	-	67,896
France	574,100	696,300	A	60,400	17,877	346,899	-	24,719	2,501	1,722,796
Germany	2,421,400	1,587,700	A	175,800	79,192	1,137,096	18,190	62,188	4	5,481,570
Hungary	24,600	54,500	A	3,100	1,799	124,229	327	1,717	-	210,272
India	8,442,300	1,227,200	50,000	1,030,200	-	1,305,400	-	-	-	12,055,100
Italy	755,800	425,100	A	54,100	71,007	856,381	8,001	72,007	700	2,243,096
Japan	2,281,000	1,403,612	42,000	161,900	75,401	1,489,700 ^D	-	-	-	5,453,613
Korea (Republic of)	1,019,800	686,500	2,000	159,800	25,700	629,400	-	-	13,000	2,536,200
Mexico	892,188	526,897	-	373,965	217,200	817,911	-	81,300	-	2,909,461
Norway	8,300	21,100	A	-	-	8,883	-	-	-	38,283
Pakistan	163,000	24,730	-	45,550	15,540	17,600	-	-	-	266,420
Poland	480,000	160,000	A	50,000	6,100	330,000	-	7,500	2,900	1,036,500
Portugal	41,500	97,200	A	5,900	16,800	35,000	-	2,250	-	198,650
Romania	20,000	3,500	-	7,000	4,500	70,000	7,000	500	250	112,750
Russia	2,637,500 ^E	-	-	862,500	-	725,000 ^F	-	-	-	4,225,000
Serbia	26,300	3,100	-	18,150	3,100	10,120	1	30	-	60,801
Slovenia	75,100	38,600	A	30,200	842	51,209	-	-	-	195,951
South Africa	140,000	157,000	-	93,500	14,000	38,000	-	500	-	443,000
Spain	365,700	698,100	A	64,900	15,096	141,810	-	8,941	850	1,295,397
Sweden	159,400	55,600	A	21,750	8,312	46,138	1,138	9,274	-	301,612
Switzerland	36,500	22,800	A	1,100	2,021	13,373	-	1,209	-	77,003
Taiwan	605,081	208,293	-	66,193	30,826	368,286	-	-	-	1,278,679
Turkey	720,000	825,000	A	170,000	25,000	380,000	-	35,000	-	2,155,000
Ukraine**	400,000	120,000	30,000	580,000	60,000	280,000	15,000	25,000	50,000	1,560,000
U.K.	138,000	196,000	A	44,700	8,500	136,200	2,640	7,350	-	533,390
U.S. Metric	3,327,027	2,633,294	40,034	1,264,026	209,369	1,679,072	138,890	325,062	51,292	9,668,066
WORLD TOTAL	49,043,244	26,428,148	764,034	11,281,541	1,776,282	19,076,302	196,645	666,869	371,612	109,863,577

* 2016 Results ** 2015 Results A Includes Malleable Iron B Source: Aluminum Association C Includes Magnesium D Includes all diecasting E All iron F All nonferrous

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Metalcasting Plants by Nation & Trends

Country	Iron	Steel	Nonferrous	2017 Total
Austria	20	3	33	56
Belarus	-	-	-	135
Belgium	-	-	6	6
Bosnia & Herzegovina*	5	2	4	11
Brazil	452	153	565	1,170
Bulgaria	80	-	18	98
Canada**	-	-	-	175
China*	14,000	4,000	8,000	26,000
*Croatia	26	5	-	31
Czech Republic	-	-	37	37
Denmark	8	-	7	15
Finland	11	7	14	32
France	-	-	-	380
Germany	192	45	337	574
Hungary	27	7	86	120
India	-	-	-	4,600
Italy	139	37	862	1,038
Japan**	-	-	-	1,612
Korea	550	-	100	650
Mexico	-	-	-	800
Norway	5	-	6	11
Pakistan	1,595	60	185	1,840
Poland	180	35	240	455
Portugal	23	8	57	88
Romania	-	-	-	100
Russia*	-	-	-	1,140
Serbia*	11	8	17	36
Slovenia	-	-	45	45
South Africa	38	43	86	167
Spain	46	29	52	127
Sweden	26	12	61	99
Switzerland	15	2	39	56
Taiwan	-	-	-	-
Turkey	441	105	386	932
Ukraine*	270	280	290	840
U.K.*	216	-	204	420
U.S.	617	341	977	1,935
TOTAL	18,697	5,182	12,510	45,331

*2016 data **2015 data

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