

CENSUS OF WORLD CASTING PRODUCTION

Fewer Castings Made in 2020

The COVID-19 pandemic had a significant impact on production as nearly all countries—except China—reported fewer shipments in 2020.

A MODERN CASTING STAFF REPORT

n 2020, countries around the world felt the effect of government-mandated work stoppages and restrictions due to the COVID-19 pandemic. Nearly every country surveyed reported a significant drop in production in 2020 compared to 2019. One of the few exceptions was China, which felt the effects of COVID earlier than most, but then rebounded to

show a 6% growth overall. This comes after two straight years of production retraction for China. Korea's casting shipments were even with no decline or growth.

New to the census this year is an entry from Indonesia. According to the Indonesian Foundry Industries Association (APLINDO), the country produced 589,779 metric tons of castings, with aluminum as the main metal poured.

The top 10 casting-producing nations are listed on page 30. Once again, China, India, and the U.S. hold the top three spots.

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.

2020 Casting Production (metric tons)

Cou	intry	Gray Iron	Ductile Iron	Malleable Iron	Steel	Copper Base	Aluminum	Magnesium	Zinc	Other Nonferrous	Total
Aus	stria	33,400	91,700 ^A		9,600		106,798	4,504			246,002
Belg	gium	43,000	3,900 ^A		5,500			-	-	(*)	52,400
Bra	azil	1,148,123	468,952	-	269,512	20,524	160,464	4,534	1,064	-	2,073,173
Can	ada ^B	330,841	<u>~</u>	12	90,091	14,237	211,374	10	-		646,543
Ch	ina	21,750,000	15,300,000	630,000	6,350,000	870,000	6,800,000	4	-	250,000	51,950,000
Cro	atia	19,465	6,161	14	120	202	65,606	12	2	131	91,685
Czech F	Republic	117,000	34,500 ^A	-	41,000	16,000	77,400	300	800	-	287,000
	nark ^c	28,900	58,100 ^A	-	-	1,188	2,224	_		112	90,524
	and	17,300	23,100 ^A	-	6,700	2,415	1,730	-			51,245
	nce	431,900	593,600 ^A		41,900	16,118	377		18,880	2 100	
			(6)		16565	- 51	293,529	-	5.5	2,180	1,398,107
	many	1,618,700	957,100 ^A	.	138,000	46,076	652,738	20,489	49,761	19	3,482,883
	gary	16,500	58,000 ^A	12	2,000	729	118,900	250	1,662	99	198,140
	dia	7,911,763	1,095,522	50,000	912,893	-	1,344,182	-	2	-	11,314,360
Indo	nesia	77,783	42,060	86,940	128,724	46,086	182,586	ē	=	25,600	589,779
Ita	aly	534,400	300,600 ^A	: <u>-</u>	58,000	38,168	540,296	3,676	75,834	1,235	1,552,209
	pan	1,598,113	1,169,743	29,439	153,000	57,019	343,651	•	13,792	82,146 ^G	3,446,903
	epublic of)	881,400	670,700	-	150,000	24,100	642,200	12,000 ^D	₹	-	2,380,400
Mex	kico ^E	816,160	560,270	/ -	336,250	215,500	832,770		79,500	15,200	2,855,650
Non	way ^c	8,800	22,300 ^A	-	-	-	6,526)-	-		37,626
Paki	stan ^c	181,000	24,540	=	48,750	14,200	21,200	9	9	2,730	292,420
Pol	and	360,000	124,000 ^A	-	40,000	4,800	272,000	-	6,000	2,400	809,200
Port	tugal	26,100	76,100 ^A	-	4,100	16,203	31,966	-	2,165	-	156,634
Rom	ania ^c	15,000	1,500	-	3,500	3,000	60,000	2000	250	90	85,340
Rus	sia ^c	2,184,000 ^E	=	14	1,134,000	117,600	588,000	75,600	-	100,800	4,200,000
Slov	renia	59,300	39,800 ^A	12	17,600	990	44,618	¥	7,477	-	169,785
South	Africa ^c	_	2	(<u>4</u>	_	-	_	12	_	-2	443,000
Sp	ain	283,100	582,800 ^A	-	65,300	15,279	101,317	-	7,304	683	1,055,783
Swe	eden	126,000	51,000 ^A	-	20,200	-	56,400	-	-	-	253,600
Switze	erland	8,400	11,900 ^A		2,500	2,023	10,815	•	762	-	36,400
Taiwar	n (ROC)	543,617	179,697	<u>.</u>	55,007	27,368	481,593	6,237	-	-	1,293,519
Tur	key	617,300	854,700 ^A		192,000	24,851	449,503	761	31,644	-	2,170,759
	aine ^B	-	-	- 1	-	-	-	- 1	-	-:	1,560,000
	.K.	128,400	195,600 ^A		41,600	8,300	102,522	2,000	7,300		485,722
	.S.	7,616,824				304,279	1,425,120		47,786	354,802	9,748,811
WORLD	TOTAL	49,532,589	23,597,945	796,379	10,317,847	1,907,255	16,028,028	132,351	352,773	838,227	105,505,602

A) Includes malleable iron B) 2015 data C) 2019 data D) Includes magnesium E) 2017 data F) Includes all ferrous G) Includes aluminum diecasting

Country	Iron	Steel	Nonferrous	2018 Total
Austria	12	3	22	37
Belgium	5	8	6	19
Brazil	329	130	400	859
Canada ^A				175
China ^B	14,000	4,000	8,000	26,000
Croatia ^B	26	5		31
Czech Republic	55	27	37	119
D enmark ^c	8	-	7	15
Finland	11	7	13	31
France ^c	86	34	-	120
Germany	140	39	327	506
Hungary ^c	27	12	33	72
India	-	-	-	4,500
Italy	134	38	864	1,036
Japan ^D	913	-	1,647	2 ,560
Korea (Republic of)	513	134	230	877
Mexico ^E	-	-	-	800
Norway ^c	5	-	3	8
Pakistan ^c	-	-	-	1,880
Poland	180	36	240	456
Portugal	23	8	57	88
Romania ^c	25	15	40	80
Russia ^B	-	-	-	1,140
Serbia ^B	-	-	-	36
Slovenia	8	3	47	58
South Africa ^E	-	-	-	135
Spain	43	31	52	126
Sweden ^c	25	11	60	96
Switzerland	13	2	31	46
Taiwan (ROC)	386	199	309	894
Turkey	447	109	396	952
Ukraine ^c	-	-	-	840
U.K. ^B	-	-	-	420,671
U.S.	_	_	_	1,661

TOP 10 CASTING PRODUCERS

1. China	51,950,000 metric tons	5. Germany 3,482,883 metric tons	8. Korea 2,380,200 metric tons
	Percent change: 6%	Percent change: -29.6%	Percent change: 0%
2. India	11,314,360 metric tons	6. Japan 3,446,903 metric tons	9. Turkey 2,170,759 metric tons
	Percent change: -1.5%	Percent change: -34.7%	Percent change: -6%
3. U.S.	9,748,811 metric tons	7. Mexico 2,855,650 metric tons	10. Brazil 2,073,173 metric tons
	Percent change: -13.7%	No new data.	Percent change: -9.4%

4. Russia 4,200,000 metric tons No new data.