

Industeel



ArcelorMittal



Ingots Catalog

Dimensions and Weight



For all our Ingots

		Carbon alloy steel	Stainless steel
Mini casting per heat	Mini (metric tonnes)	75	78
Maxi casting per heat	Maxi (metric tonnes)	98.5	89

Round Smooth Ingots

Type	Ingot with hot top		Body (1)		Number of ingots per heat	
	Height (mm)	Weight (T)	Height (mm)	Weight (T)	Carbon alloy steel	Stainless steel
500 x 4900	4900	7.2	4600	6.8	12	11
600 x 4900	4900	10.4	4600	9.8	9	8
800 x 4650	4650	17.1	4100	15.9	5	5
800 x 4900	4900	18.8	4450	17.4	5	4
1000 x 3900	3900	22.7	3450	20.6	4	(4)
1000 x 4650	4650	26.4	4100	24.3	3	3
1000 x 4900	4900	28.7	4450	26.4	3	(4)
1050 x 3520	3520	22.7	3100	20.5	4	(4)
1050 x 3900	3900	25	3450	22.7	3	3



Round Smooth Ingots

Type	Ingot with hot top		Body ⁽¹⁾		Ingot without hot top and bottom		Number of ingots per heat	
	Height (mm)	Weight (T)	Height (mm)	Weight (T)	Height (mm)	Weight (T)	Carbon alloy steel	Stainless steel
1255 x 3540	3540	31.2	3040	27.5	2890	26.2	3	(4)
1255 x 3485	3485	30.7	3000	27.1	2850	25.8	3	
1255 x 3430	3430	30.2	2950	26.7	2800	25.3	3	
1255 x 3370	3370	29.7	2900	26.2	2750	24.9	3	
1255 x 3315	3315	29.2	2850	25.8	2700	24.5	3	
1255 x 3260	3260	28.8	2800	25.3	2650	24	3	3
1255 x 3200	3200	28.3	2750	24.9	2600	23.6	3	3
1255 x 3145	3145	27.8	2700	24.5	2550	23.1	3	3
1255 x 3035	3035	26.8	2610	23.6	2460	22.3	3	3
1255 x 2975	2975	26.3	2560	23.1	2410	21.8	3	3
1255 x 2920	2920	25.8	2510	22.7	2360	21.4	3	3
1255 x 2865	2865	25.3	2460	22.3	2310	20.9	3	3

1255 x 2640	2640	23.4	2270	20.5	2120	19.2	4	3
1255 x 2585	2585	22.9	2220	20.1	2070	18.8	4	3
1255 x 2525	2525	22.4	2170	19.6	2020	18.3	4	4
1255 x 2470	2470	21.9	2120	19.2	1970	17.9	4	4
1255 x 2415	2415	21.4	2070	18.8	1920	17.4	4	4
1255 x 2355	2355	21.0	2020	18.3	1870	17	4	4
1255 x 2300	2300	20.5	1980	17.9	1830	16.6	4	4
1255 x 2245	2245	20.0	1930	17.4	1780	16.1	4	4
1255 x 2190	2190	15.0	1880	17.0	1730	15.7	4	4
1255 x 2130	2130	19.0	1830	16.6	1680	15.2	4	4

Round Smooth Ingots

Type	Ingot with hot top		Body (1)		Ingot without hot top and bottom		Number of ingots per heat	
	Height (mm)	Weight (T)	Height (mm)	Weight (T)	Height (mm)	Weight (T)	Carbon alloy steel	Stainless steel
1510 x 3810	3810	48	3210	42	3060	40.1	2	(4)
1510 x 3745	3745	47.2	3160	41.3	3010	39.4	2	
1510 x 3690	3690	46.5	3110	40.7	2960	38.8	2	
1510 x 3630	3630	45.7	3060	40.1	2910	38.1	2	
1510 x 3575	3575	45	3010	39.4	2860	37.5	2	
1510 x 3515	3515	44.3	2960	38.8	2810	36.9	2	
1510 x 3460	3460	43.6	2910	38.1	2760	36.2	2	
1510 x 3400	3400	42.9	2860	37.5	2710	35.6	2	2
1510 x 3345	3345	42.1	2820	36.9	2670	35	2	2
1510 x 3285	3285	41.4	2770	36.2	2620	34.3	2	2
1510 x 3230	3230	40.7	2720	35.6	2570	33.7	2	2
1510 x 3170	3170	40	2670	35	2520	33.1	2	2
1510 x 3155	3155	39.7	2660	34.8	2510	32.9	2	2
1510 x 3115	3115	39.2	2620	34.2	2470	32.4	2	(4)
1510 x 3055	3055	38.5	2570	33.7	2420	31.8	2	
1510 x 3000	3000	37.8	2520	33.1	2370	31.2	2	
1510 x 2970	2970	37.4	2500	32.7	2350	30.8	2	
1510 x 2940	2940	37.1	2480	32.4	2330	30.5	2	
1510 x 2885	2885	36.4	2430	31.8	2280	29.9	2	

1510 x 2505	2505	32	2110	27.6	1960	25.7	3	(4)
1510 x 2485	2485	31.7	2090	27.3	1940	25.4	3	
1510 x 2425	2425	31	2040	26.7	1890	24.8	3	
1510 x 2370	2370	30.2	1990	26.1	1840	24.2	3	
1510 x 2310	2310	29.5	1940	25.4	1790	23.5	3	
1510 x 2255	2255	28.8	1890	24.8	1740	22.9	3	
1510 x 2195	2195	28.1	1840	24.2	1690	22.3	3	3
1510 x 2140	2140	27.3	1800	23.5	1650	21.6	3	3
1510 x 2080	2080	26.6	1750	22.9	1600	21	3	3
1510 x 2025	2025	25.9	1700	22.3	1550	20.3	3	(4)
1510 x 1965	1965	25.2	1650	21.6	1500	19.7	3	
1510 x 1905	1905	24.5	1600	21	1450	19.1	3	

Other dimensions available upon feasibility request.



Type (2)	Ingot with hot top		Body (1)		Ingot without hot top and bottom		Number of ingots per heat	
	Height (mm)	Weight (T)	Height (mm)	Weight (T)	Height (mm)	Weight (T)	Carbon alloy steel	Stainless steel
1800 x 5175	5175	95.4	4370	83.6	4220	80.8	1	(4)
1800 x 5115	5115	94.3	4320	82.7	4170	79.9	1	
1800 x 5060	5060	93.3	4270	81.7	4120	79	1	
1800 x 5000	5000	92.2	4220	80.8	4070	78	1	
1800 x 4945	4945	91.2	4170	79.9	4020	77.1	1	
1800 x 4885	4885	90.1	4130	79.0	3980	76.2	1	
1800 x 4830	4830	89.1	4080	78.0	3930	75.2	1	
1800 x 4770	4770	88	4030	77.1	3880	74.3	1	
1800 x 4715	4715	86.9	3980	76.2	3830	73.4	1	
1800 x 4655	4655	85.9	3930	72.5	3780	72.5	1	
1800 x 4600	4600	84.8	3880	75.2	3730	71.5	1	
1800 x 4545	4545	83.8	3830	73.4	3680	70.6	1	
1800 x 4485	4485	82.7	3790	72.5	3640	69.7	1	
1800 x 4430	4430	81.7	3740	71.5	3590	68.7	1	
1800 x 4370	4370	80.6	3690	70.6	3540	67.8	1	
1800 x 4315	4315	79.6	3640	69.7	3490	66.9	1	
1800 x 4255	4255	78.5	3590	68.7	3440	66	1	
1800 x 4200	4200	77.4	3540	67.8	3390	65	1	
1800 x 4140	4140	76.4	3500	66.9	3350	64.1	1	
1800 x 4040	4040	75.3	3450	66.0	3300	63.2	1	
1800 x 4025	4025	74.3	3400	65.0	3250	62.2	1	
1800 x 3970	3970	73.2	3350	64.1	3200	61.3	1	
1800 x 3910	3910	72.2	3300	63.2	3150	60.4	1	

1800 x 2590	2590	47.9	2180	41.8	2030	39	2	(4)
1800 x 2530	2530	46.8	2140	40.9	1990	38.1	2	
1800 x 2475	2475	45.7	2090	39.9	1940	37.2	2	
1800 x 2415	2415	44.7	2040	39.0	1890	36.2	2	
1800 x 2360	2360	43.6	1990	38.1	1840	35.3	2	
1800 x 2300	2300	42.6	1940	37.2	1790	34.4	2	
1800 x 2245	2245	41.5	1890	36.2	1740	33.4	2	
1800 x 2185	2185	40.4	1840	35.3	1690	32.5	2	
1800 x 2130	2130	39.4	1800	34.4	1650	31.6	2	
1800 x 2070	2070	38.3	1750	33.4	1600	30.7	2	
1800 x 2015	2015	37.3	1700	32.5	1550	29.7	2	
1800 x 1955	1955	36.2	1650	31.6	1500	28.8	2	
1800 x 1900	1900	35.2	1600	30.7	1450	27.9	2	

(1) The information in the «body» column does not take into account our sawing recommendations

Sawing recommendation : 50 mm from the top and 100 mm from the foot

(2) Ingots diameter 1 800 : 24 pans



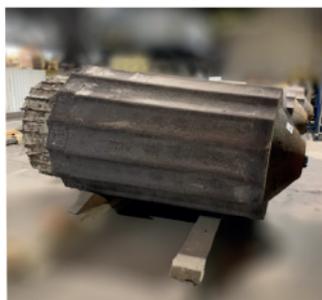
Polygonal Ingots

			Ingot with hot top			Body		Number of ingots per heat	
Type	Faces	Average diameter Top/Bottom	Height (mm)	Weight (t)	Height (mm)	Weight (t)	Carbon alloy steel	Stainless steel	
CM9	8	1050/920	1830	10.35	1580	9	8	8	
CM11	8	1150/1000	1930	13.4	1600	11	7	6	
CM17	16	1330/1170	2130	19.56	1720	16	4	4	
CM17R	16	1350/1170	2370	22	1920	18.1	4	3	
CM17RR	16	1350/1170	2570	26.5	2120	20.2	3	3	
CM30	16	1590/1380	2740	35.3	2140	28.3	2	2	
CM1800 ⁽³⁾	24	1850/1690	Mini	2200	40.7	1840	35	2	2
			Maxi	2860	60.8	2400	50.5	1	1
CM70 ⁽³⁾	24	2150/1860	Mini	3300	82.3	2820	68.3	1	
			Maxi	4300	110.7	3680	93.2		
CM90 ⁽³⁾	24	2480/2240	Mini	3220	108.7	2730	91.5		
			Maxi	4320	149.5	3710	126.5		
CM145 ⁽³⁾	24	2710/2320	Mini	4420	171.5	3650	145.5		
			Maxi	5030	192.5	4170	163.6		

(3) Also available from under vacuum casting

Please consult for further information

(4) Please ask for more information



Flat Ingots

			Ingot with hot top		Body		
Type	Thickness (mm)	Width (mm)	Maximum height (mm)	Maximum weight (mm)		Height (mm)	Weight (t)
D3	256	1000	2010	3.5	Mini	1115	1.9
					Maxi	1765	3.3
B2	180	1145	2445	3.6	Mini	1580	2.5
					Maxi	2160	3.3
B4	240	1225	2475	5.1	Mini	1560	3.4
					Maxi	2210	4.8
B7	280	1462	2490	7.0	Mini	1550	4.6
					Maxi	2200	6.5
B8	358	1420	2275	7.9	Mini	1355	4.9
					Maxi	2005	7.3
D10	530	1305	2370	11.1	Mini	1485	7.2
					Maxi	2065	10.0
D14	560	1400	2850	15.0	Mini	1890	10.5
					Maxi	2475	13.7
R17	530	1765	2745	17.7	Mini	1855	12.1
					Maxi	2380	15.5
R21	540	1770	3550	23.2	Mini	2395	16.0
					Maxi	3095	20.6
R23	540	2170	3560	28.1	Mini	2405	19.3
					Maxi	3095	25.6
R24	700	1915	3195	28.1	Mini	2135	19.4
					Maxi	2750	25.4

Please consult for further information



Hollow Ingots

Designation	Average external diameter (mm)	Average internal diameter (mm)	Ingot with hot top			Body	
				Height (mm)	Weight (t)	Height (mm)	Weight (t)
2381/1060 Hollow	2381	1060	Mini	2870	75.6	2480	66.5
			Maxi	4040	108.2	3480	95.2
3500/1300 Hollow	3500	1300	Mini	2585	145.8	2190	125.4
			Maxi	3435	194.2	2930	168.1
3500/1700 Hollow	3500	1700	Mini	2635	128.7	2190	110.8
			Maxi	3360	164.6	2790	141.7
3502/1300 Hollow	3502	1300	Mini	1950	110.5	1650	95
			Maxi	2725	155.1	2315	133.9
3502/1700 Hollow	3502	1700	Mini	1985	96.9	1650	83.4
			Maxi	2710	132.9	2250	114.4

For Hollow ingots we only produce one ingot per heat.

Please consult for further information



		Round Ingots	Polygonal Ingots
UT	CARBON/ ALLOY STEEL	EN 10228-3 cl3	EN 10228-cl4
		< 3 mm	< 2mm
	STAINLESS STEEL	EN 10228-4 cl2	EN 10228-4cl3
		< 5mm	< 3mm
GRAIN SIZE		Material supplied is fit for grain size required after forging/rolling and appropriate heat treatment	
INCLUSION CLEANLINESS		According to DIN 50 602 -K4 < 20	
JOMINY		The jominy figures supplied are delivered from calculations and must be treated as indications only	
APPLICATION		HOLLOW PIECES	SOLID PIECES

<https://industeel.arcelormittal.com>



Some pictures of the ingots



Our steel is melted via the electric arc furnace route, using scrap and decarbonized electricity, allowing a very substantial reduction of the CO2 footprint per tonne of steel.



For any information

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Industeel reserves the right to change its product range at any time without prior notice.



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