



## Ball mill (dry or wet)

Usage: Ball mill is the key equipment for grinding after the crushing process, which is widely used in the manufacture industries, such as cement, silicate, new building material, refractory material, fertilizer, ferrous metal, nonferrous metal and glass ceramics and can be used for the dry and wet grinding for all kinds of ores and other grind-able materials.

## Working principle:

This machine is a skeleton pattern ball mill with horizontal cylindrical turning gear, drive by outer gear and two hoppers. The material goes to the first hopper after the spiraling by the quill shaft from the feeding equipment. The hopper has ladder sheathing or corrugated sheathing with steel balls inside, which will fall under the effect of centrifugal force by barrel turning to ram hard and grind material. After the kibbling in the first hopper, by monolayer partition panel, the material will enter the second hopper, which has plane scale board with steel ball inside to grind material. The powder material will be discharged from the grid plate to finish the grinding.

## Structure:

The machine is composed by feeding part, discharging part, turning part and driving part (reducer, small driving gear, electric motor and electric control). The quill shaft adopts cast steel part and the liner is detachable. The turning gearwheel adopts casting hobbing process and the drum is equipped with wear-resistant liner, which has good wear-resistance. The machine is with stable and reliable working condition. Moreover, according to different materials and discharging methods, there are dry ball mills and wet ball mills for choice.



## Technical parameters of Ball mill

Model	Shell rotation speed(r/min)	Ball load(t)	Feeding size(mm)	Discharging size(mm)	Capacity	Motor power(kw)	Weight(t)
					(t/h)		
Ø900*1800	36--38	1.5	<=20	0.075-0.89	0.65-2	18.5	5.5
Ø900*3000	36	2.7	<=20	0.075-0.89	1.1-3.5	22	6.7

Ø1200*2400	36	3	<=25	0.075-0.6	1.5-4.8	30	12
Ø1200*3000	36	3.5	<=25	0.074-0.4	1.6-5	37	12.8
Ø1200*4500	32.4	5	<=25	0.074-0.4	1.6-5.8	55	13.8
Ø1500*3000	29.7	7.5	<=25	0.074-0.4	2-5	75	16.8
Ø1500*4500	27	11	<=25	0.074-0.4	3-6	110	21
Ø1500*5700	28	12	<=25	0.074-0.4	3.5-6	130	25.8
Ø1830*3000	25.4	11	<=25	0.074-0.4	4-10	130	29
Ø1830*4500	25.4	15	<=25	0.074-0.4	4.5-12	155	35.5
Ø1830*6400	24.1	21	<=25	0.074-0.4	6.5-15	210	43
Ø1830*7000	24.1	23	<=25	0.074-0.4	7.5-17	245	43.8
Ø2100*3000	23.7	15	<=25	0.074-0.4	6.5-36	155	34.8
Ø2100*4500	23.7	24	<=25	0.074-0.4	8-43	245	38
Ø2100*7000	23.7	26	<=25	0.074-0.4	8-48	280	56.6
Ø2200*4500	21.5	27	<=25	0.074-0.4	9-45	280	51.8
Ø2200*6500	21.7	35	<=25	0.074-0.4	14-26	380	60
Ø2200*7000	21.7	35	<=25	0.074-0.4	15-28	380	62
Ø2200*7500	21.7	35	<=25	0.074-0.4	15-30	380	64.8
Ø2400*3000	21	23	<=25	0.074-0.4	7-50	245	54
Ø2400*4500	21	30	<=25	0.074-0.4	8.5-60	320	65
Ø2700*4000	20.7	40	<=25	0.074-0.4	12-80	380	94
Ø2700*4500	20.7	48	<=25	0.074-0.4	12-90	480	102
Ø3200*4500	18	65	<=25	0.074-0.4	-----	800	137
Ø3600*4500	17	90	<=25	0.074-0.4	-----	850	158
Ø3600*6000	17	110	<=25	0.074-0.4	-----	1250	175