

HXJQ[®]

China Largest Mining Machinery
Manufacturer

Operating Instruction

BALL MILL

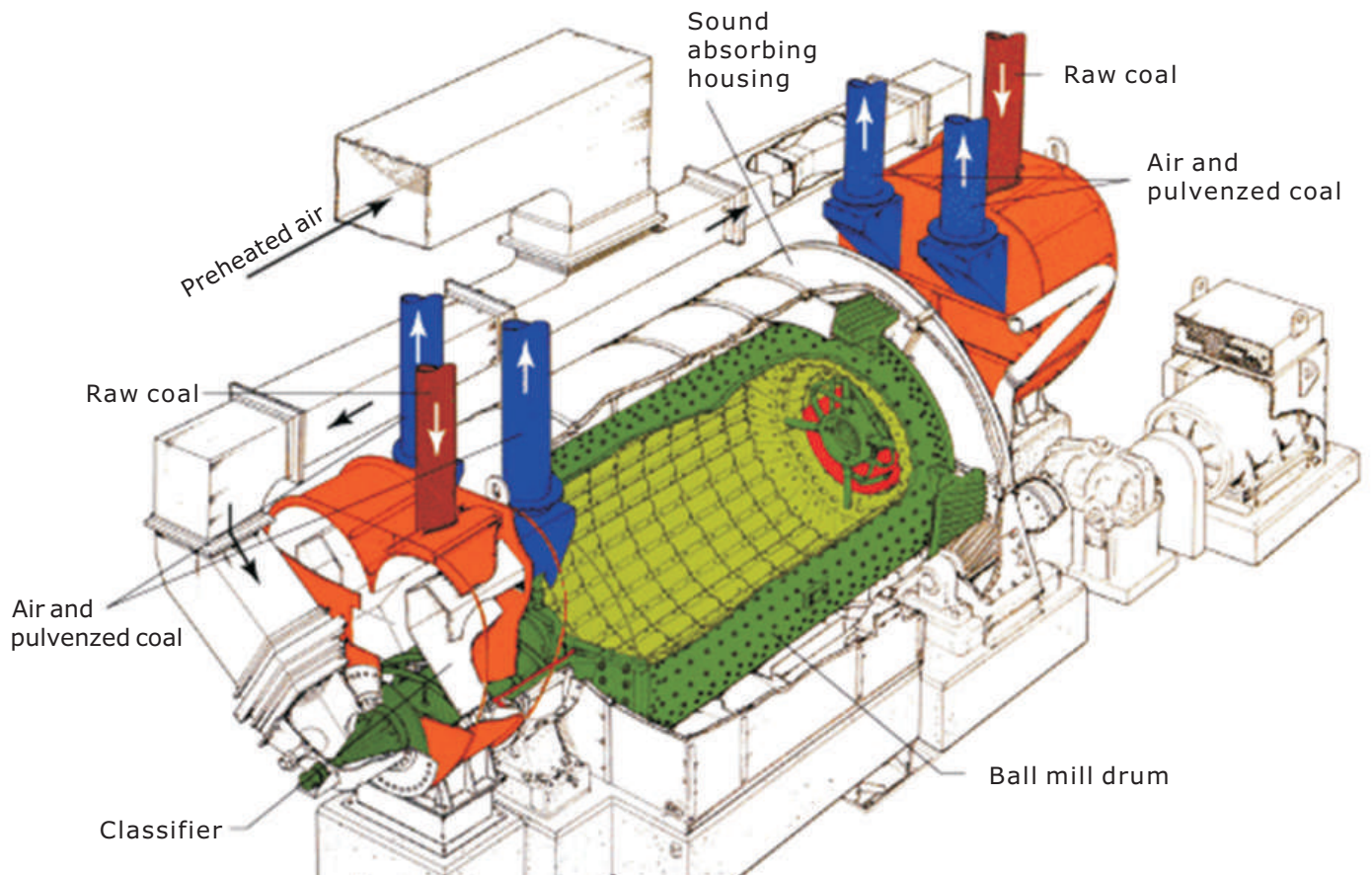


Henan Hongxing Heavy Machinery Co., Ltd.

Overview

Ball mill is the key equipment for recrushing the materials after they are primarily crushed. It is widely used for the dry type or wet type grinding of all kinds of ores and other grindable materials

in cement, silicate product, new building material, refractory, fertilizer, black and non-ferrous metals and glass ceramic industry.



The Description and Function of Ball Mill

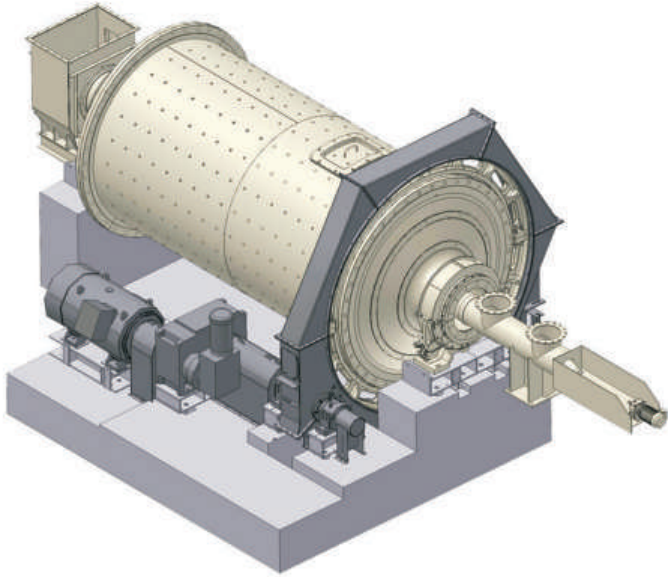
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materials in cement, silicate product, new building material, refractory, fertilizer, black and non-ferrous metals and glass ceramic industry.

The Inner Structure and Main Types of Ball Mill:

Ball mill is mainly composed of feeding part, discharging part, rotary part and driving part which includes reducer, small drive gear, electrical machine and electronic control.

According to the materials and discharging method, ball mill can be divided into dry type ball mill and wet type lattice ball mill.



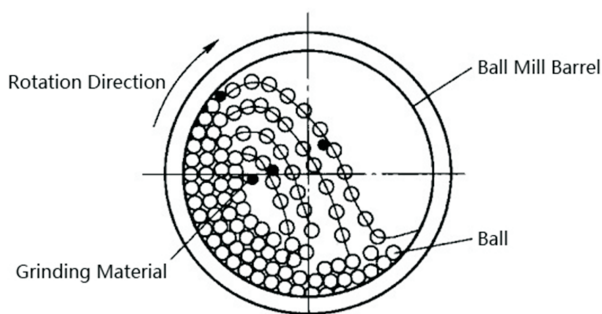
Working principle:

Ball mill is made of a horizontal cylinder, a feeding and discharging hollow shaft, grinding head and other parts. The cylinder is a cylindrical tube. There is a grinding body in the tube. The cylinder is made of steel and fixed by a steel liner and cylinder. Grinding body is generally steel balls. These steel balls are installed in the tube according to different diameters and a certain proportion. The grinding body can also be steel sections. It is controlled by the screening equipment.

Features

Ball mill is mainly composed of feeding part, discharging part, rotary part and driving part which includes reducer, small drive gear, electrical machine and electronic control. The hollow shaft uses steel casting, the inner lining can be dismantled and changed, and the rotary rack wheel uses casting gear hobbing and inside the cylinder there is wear-resisting lining board which has fine abrasion performance. This machine has stable operation and reliable performance.

According to the materials and discharging method, ball mill can be divided into dry type ball mill and wet type lattice ball mill.



Characteristics:

Production capacity: 0.5-500t/h

Feeding size: ≤ 25 mm

Material handling: cement, silicate, new-type building material, refractory material, fertilizer, ore dressing of ferrous metal and non-ferrous metal, glass ceramics, etc.



Technical data :

Model	Shell rotation speed (r/min)	Ball load (t)	Feeding size (mm)	Discharging size (mm)	Capacity (t/h)	Motor power (kw)	Total weight (t)
Φ900×1800	36-38	1.5	≤ 20	0.075-0.89	0.65-2	18.5	5.5
Φ900×3000	36	2.7	≤ 20	0.075-0.89	1.1-3.5	22	6.7
Φ1200×2400	36	3	≤ 25	0.075-0.6	1.5-4.8	30	12
Φ1200×3000	36	3.5	≤ 25	0.074-0.4	1.6-5	37	12.8
Φ1200×4500	32.4	5	≤ 25	0.074-0.4	1.6-5.8	55	13.8
Φ1500×3000	29.7	7.5	≤ 25	0.074-0.4	2-5	75	16.8
Φ1500×4500	27	11	≤ 25	0.074-0.4	3-6	110	21
Φ1500×5700	28	12	≤ 25	0.074-0.4	3.5-6	130	25.8
Φ1830×3000	25.4	11	≤ 25	0.074-0.4	4-10	130	29
Φ1830×4500	25.4	15	≤ 25	0.074-0.4	4.5-12	155	35.5
Φ1830×6400	24.1	21	≤ 25	0.074-0.4	6.5-15	210	43
Φ1830×7000	24.1	23	≤ 25	0.074-0.4	7.5-17	245	43.8
Φ2100×3000	23.7	15	≤ 25	0.074-0.4	6.5-36	155	34.8
Φ2100×4500	23.7	24	≤ 25	0.074-0.4	8-43	245	42
Φ2100×7000	23.7	26	≤ 25	0.074-0.4	8-48	280	56.6
Φ2200×4500	21.5	27	≤ 25	0.074-0.4	9-45	280	51.8
Φ2200×6500	21.7	35	≤ 25	0.074-0.4	14-26	380	60

Φ2200×7000	21.7	35	≤ 20	0.075-0.89	15-28	380	62
Φ2200×7500	21.7	35	≤ 20	0.075-0.89	15-30	380	64.8
Φ2400×3000	21	23	≤ 25	0.075-0.6	7-50	245	58
Φ2400×4500	21	30	≤ 25	0.074-0.4	8.5-60	320	69
Φ2700×4000	20.7	40	≤ 25	0.074-0.4	12-80	380	94
Φ2700×4500	20.7	48	≤ 25	0.074-0.4	12-90	480	102
Φ3200×4500	18	65	≤ 25	0.074-0.4	As per process conditions	630	137
Φ3600×4500	17	90	≤ 25	0.074-0.4	As per process conditions	850	158
Φ3600×6000	17	110	≤ 25	0.074-0.4	As per process conditions	1250	175
Φ3600×8500	18	131	≤ 25	0.074-0.4	45.8-256	1800	252
Φ4000×5000	16.9	121	≤ 25	0.074-0.4	45-208	1500	203
Φ4000×6000	16.9	146	≤ 25	0.074-0.4	65-248	1600	218
Φ4000×6700	16.9	149	≤ 25	0.074-0.4	45-252	1800	238
Φ4500×6400	15.6	172	≤ 25	0.074-0.4	54-306	2000	280
Φ5030×6400	14.4	216	≤ 25	0.074-0.4	68-386	2500	320
Φ5030×8300	14.4	266	≤ 25	0.074-0.4	88-500	3300	403
Φ5500×8500	13.8	338	≤ 25	0.074-0.4	108-615	4500	525

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- **Pre-sale services: enthusiasm**

We provide you with the prophase plan, process flow design and manufacturer equipment according to your special demand.

- **Sale services: servant**

Send technicians to the jobsite for guiding the installation and adjustment, training operators and finishing the check and accept together with you.

- **After-sale services: faithfulness**

To establish long term friendship, we will regularly pay return visit to customers. Supplying technique, building design, instruction , installation