

## GRINDING

### High-efficiency Autogenous Mill

#### Principle

The main component is a cylinder with diameter and length at a reasonable proportion. Driven by the transmission device, the cylinder rotates with the materials fed from the center sleeve at one end of the cylinder and crushed by the falling impacts and autogenous grinding of the ores in the cylinder. Qualified materials flow from center sleeve at the other end of the cylinder through the grid plate by the overflow water.

#### Features

Low power consumption, no dust pollution, less auxiliary equipment, easy production automation, and stable particle size.

High-efficiency autogenous mill can realize the second and third stage crushing and screening, and part or all crushing and grinding of rod mill or ball mill.

High-efficiency autogenous mill can process coarse ores with intermediate crushing and fine crushing saved, high crushing ratio, which can reach 3000-4000 (feed size 300-400 mm, outlet size below 0.1 mm).

#### Application

Generally used in the coarse grinding after coarse crushing.

#### Technical Parameters

Model	Diameter (mm)	Length (mm)	Feed Size (mm)	Main Motor			
				Model	Power (kW)	Voltage (V)	Weight (t)
ZMJ4014	4000	1400	< 350	JR148-8	245	10000	75
ZMJ4018	4000	1800	< 350	JR1410-8	320	10000	82
ZMJ5518	5500	1800	< 400	TDMK800-36	800	10000	175
ZMJ6522	6500	2200	< 400	TDMK1600-40	1600	10000	280
ZMJ7525	7500	2500	< 400	TM2500-16	2500	10000	455
ZMJ7528	7500	2800	< 400	TM2500-16	2500	10000	465



### Wet Energy-saving Grid Ball Mill

#### Principle

The main component is a cylinder with diameter and length at a reasonable proportion. Driven by the transmission device, the cylinder rotates with the materials fed from the cylinder inlet and crushed by the falling impacts and autogenous grinding of the steel balls and ores in the cylinder. Due to the continuously feeding materials, Materials are pushed to the outlet by the pressure, and the grinded materials are discharged from the cylinder outlet. Qualified materials flow from the cylinder outlet. In wet grinding, the materials are taken out by the water flow. There is a grid installed in the outlet of the mill with low slurry surface, which can reduce the ore over-grinding, and prevent the steel ball out. Under the same production conditions, production capacity of grid mill is larger with rolling bearing and significant energy conservation.



## Features

Large double-row self-aligning rolling bearing with less friction force is used to replace sliding bearing, and easy to start with energy saved by 20-30%.

Corrugated lining plate is used to increase the contact surface of ball and ore, strengthen the grinding, lift the ores, and reduce the energy consumption.

Overall frame is adopted for small size ball mill (Dia < 2.1m) which is much more convenient for civil work and installation;

Large ore outlet and large capacity.

Oil mist lubrication device guarantees the lubrication of all gears.

## Application

Generally used in grinding ores with larger particle size.

## Technical Parameters

Model	Cylinder Diameter (mm)	Cylinder Length (mm)	Motor Model	Motor Power (kW)	Length (mm)	Width (mm)	Height (mm)	Capacity (t/h)	Effective Volume (m <sup>3</sup> )	Max. Ball Load (t)	Weight (kg)
MQGg 1212	1200	1200	Y200L2-6	22	3512	2076	1620	0.17~4.1	1.14	2.4	9610
MQGg 1224	1200	2400	Y280M-8	45	5745	2352	1778	0.26~6.15	2.4	4.6	12692
MQGg 1240	1200	4000	JR117-8	80	7990	2210	2262	0.34~8.3	3.8	7.8	15932
MQGg 1515	1500	1500	Y280M-8	45	5740	3075	2280	1.4~4.5	2.2	5	17125
MQGg 1530	1500	3000	JR117-8	80	7253	3070	2280	2.8~9	5	10	21425
MQGg 1536	1500	3600	JR126-8	110	8595	3185	2280	3~11	5.4	11.4	24213
MQGg 1545	1500	4500	JR127-8	130	9680	3254	2370	3.5~12.5	7	12	27346
MQGg 1830	1800	3000	JR136-8	180	8250	3620	2785	4.5~27	6.65	14	31850
MQGg 1836	1800	3600	JR136-8	180	8866	3683	2785	4.5~29	8.2	13.8	35467
MQGg 1845	1800	4520	JR137-8	210	9808	3683	2785	5~35	10.2	19	38909
MQGg 1856	1800	5620	JR137-8	210	10909	3683	2785	6~40	12.2	22	41681
MQGg 1870	1800	7020	JR138-8	245	12404	3783	2735	7~50	15	31.5	45166
MQGg 2122	2100	2200	JR128-8	155	7135	4137.7	3083	5~29	6.6	20	38340
MQGg 2130	2100	3000	JR136-8	180	8220	4220	3083	6.5~36	9	27	43100
MQGg 2136	2100	3600	JR137-8	210	9154.5	4320	3433	7.5~42	10.8	23.5	45833
MQGg 2140	2100	4000	JR137-8	210	9654	4320	3083	7.5~45	12.8	22.5	47262.4
MQGg 2145	2100	4500	JR137-6	280	10350	4253	3125	10~50	13.5	23.6	52648
MQGg 2230	2200	3000	JR137-8	210	8220	3864	3183	7.5~45	9.8	20.6	44600
MQGg 2430	2400	3000	JR138-8	280	9023.5	4836.4	3490	7.2~92	11.5	22.5	59544.5
MQGg 2436	2400	3600	JR138-8	320	9604.5	4836.4	3490	8~100	13.8	25.5	63932.5
MQGg 2442	2400	4200	JR138-8	320	10204.5	4836.4	3490	8~110	16	30	67370
MQGg 2721	2700	2100	JR138-8	245	8300	4786.4	3495	7.2~84	10.7	23	66743
MQGg 2727	2700	2700	JR137-6	280	8901	4786.4	3490	7~110	13.8	29	71030
MQGg 2730	2700	3000	JR1410-8	320	9610	5000	3495	8~115	15.3	32	83909.2
MQGg 2732	2700	3200	JR1410-8	320	10724	5000	3620	8~120	15.7	32	88073
MQGg 2736	2700	3600	JR158-8	380	10409	5150	3620	12~145	17.7	37	95300
MQGg 2740	2700	4000	JR158-8	380	10609	5150	3620	12.5~152	19	42	98454
MQGg 2745	2700	4500	JR1510-8	450	11534	5200	3670	13~160	22	40	100016
MQGg 2747	2700	4700	JR1510-8	475	11779	5571	4175	13~170	23	45	101645
MQGg 2760	2700	6000	JR1512-8	630	13299	5540.6	5140	15~200	30	60	119546
MQGg 2836	2800	3600	JR1510-8	400	10964	5350	3670	13~160	19.7	41	106350
MQGg 3231	3200	3100	TDMK630-36	630	12750	6750	5150	14~180	22.5	45	115430
MQGg 3245	3200	4500	TDMK800-36	800	13896	7200	5152.5	95~110	32.8	65	147588
MQGg 3645	3600	4500	TDMK1250-40	1250	18280	7700	5496	115~170	41.5	76	195727