

## Wet Energy-saving Overflow 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, the pressure pushes materials to the outlet 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 are backpitch impellers in the hollow shaft, which can make the balls and coarse ores in the overflow return to the mill. With simple structure, higher operation rate, and rolling bearing, the energy conservation is significant.



### Features

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

Grooved ring plate liner 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 < 2.1 m) which is much more convenient for civil work and installation.

Oil mist lubrication device guarantees the lubrication of all gears.

### Application

Generally used in the grinding of ores with finer fineness.

### 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)
MQYg 0912	900	1200	Y1800L-6	15	3666	1835	1400	0.25~1.2	0.7	1	4265
MQYg 0918	900	1800	Y225M-8	22	4401	2535	2070	0.25~1.6	0.9	1.66	5235
MQYg 1212	1200	1200	Y225S-8	18.5	3512	2076	1620	0.17~4.1	1.14	1.9	9610
MQYg 1224	1200	2400	Y280M-8	45	5745	2352	1778	0.26~6.15	2.4	4.6	12219
MQYg 1240	1200	4000	JR117-8	80	7990	2412	1728	0.34~8.3	3.7	8	15940
MQYg 1515	1500	1500	Y280M-8	45	5740	3075	2280	1.4~4.5	2.2	4.2	17125
MQYg 1530	1500	3000	JR117-8	80	7253	3070	2280	2.8~9	5	10	21129
MQYg 1536	1500	3600	JR126-8	110	8595	3185	2280	2.8~10	5.4	10	23933
MQYg 1545	1500	4500	JR127-8	130	9680	3254	2370	3.5~12.5	7	12	27500
MQYg 1557	1500	5700	JR127-8	130	10880	3254	2370	4.5~16	8.9	15	29359
MQYg 1836	1800	3620	JR136-8	180	8865	3683	2785	4.5~29	8.2	13.8	34970
MQYg 1845	1800	4520	JR137-8	210	9750	3683	2785	5~33	10.2	19	37480
MQYg 1857	1830	5720	JR137-8	210	11009	3683	2785	6~40	12.5	22	42096
MQYg 1863	1800	6320	JR138-8	320	11690	3781	2775	6~45	14.2	25	45520.5
MQYg 1870	1800	7020	JR138-8	245	12599	3783	2735	7~47	15	31.5	45136
MQYg 1875	1800	7520	JR138-8	245	12850	3783	2775	7.5~54	17	30	49450
MQYg 2122	2100	2200	JR128-8	155	7235	4120	3083	5~29	6.6	20	35963
MQYg 2130	2100	3000	JR136-8	180	8220	4220	3083	6.5~36	9	27	40157
MQYg 2136	2100	3600	JR137-8	210	8958	4320	3025	7.5~42	10.8	23.5	44132.5
MQYg 2145	2100	4500	JR138-8	245	10350	4268	3121	10~45	13.5	23.6	42772
MQYg 2430	2400	3000	JR138-8	280	9023.5	4836.4	3490	7.2~92	11.5	22.5	57455.5
MQYg 2436	2400	3600	JR137-6	280	9623.5	4836.4	3490	8~110	13.8	25.5	60861.5
MQYg 2442	2400	4200	JR138-8	320	10204.5	4836.4	3440	8~130	16.5	31.5	63829.5
MQYg 2445	2400	4500	JR1510-8	380	11132.5	5091.4	4065	8.5~140	17.5	31	75923
MQYg 2460	2400	6000	JR1510-8	450	12623.5	5201.4	4060	9~180	23	40	83869
MQYg 2727	2700	2700	JR137-6	280	8901	4786.4	3620	7~110	13.8	29	66201
MQYg 2730	2700	3000	JR137-6	280	9201	4786.4	3620	8~115	15.3	32	72415
MQYg 2732	2700	3200	JR1410-8	320	10729	5000	3620	8~120	15.7	32	83110
MQYg 2736	2700	3600	JR158-8	380	10764	5150	3620	12~145	17.7	37	90441
MQYg 2740	2700	4000	JR1510-8	380	10870	5050	3620	12.5~152	19	40	93537
MQYg 2745	2700	4500	JR1510-8	380	11664	5150	3620	12.5~163	20.5	40	96196
MQYg 2747	2700	4700	JR1510-8	450	11864	5150	3620	13~170	23	45	97605
MQYg 3231	3200	3100	TDMK630-36	630	12550	6750	5150	14~180	21.4	45	112430
MQYg 3245	3200	4500	TDMK630-36	630	13950	7200	5152.5	95~110	32.8	65	141629
MQYg 3660	3600	6000	TDMK1250-40	1250	19780	7700	5496	120~200	55	102	193483