

Centrally-Driven Ball Mill with Self-Aligning Roller Bearing

The centrally-driven ball mill is designed with a large rotating drum supported by a sturdy base for grinding and pulverizing materials. It adopts a large-sized double-row self-aligning roller bearing instead of a Babbitt alloy bearing with lubrication.



ADDITIONAL IMAGES



Product Overview

Centrally-Driven Ball Mill

This centrally-driven ball mill utilizes large-sized double-row self-aligning roller bearings to significantly enhance service life and reliability compared to traditional sliding bearings. Designed for energy efficiency, the system reduces power consumption by 10.7% - 40.5% through a hydraulic coupling and gear wheel accelerator configuration. The drum, motor, and reducer are aligned on the same axis, ensuring a compact footprint, smooth operation, and reduced maintenance requirements.

Key Advantages

Performance Features

- Double-row self-aligning roller bearings for reduced friction and longer service life
- Energy-saving design with 10.7% - 40.5% lower power consumption
- Centrally-driven mechanism with motor, reducer, and drum on the same axis
- High-chrome steel lining plates and grinding balls for superior wear resistance
- Equipped with hydraulic clutch for smooth operation and reliability

Maintenance Benefits

Easy Installation, Simple Operation, Reduced Replacement Frequency, Convenient Dis-assembly, Oil Lubrication System

Technical Specifications

Model Specifications

Model	Speed (r/min)	Balls Weight (t)	Capacity (t/h)	Motor Power (kw)	Total Weight (t)
Æ900×900	38	0.95	0.22-1.07	10	4.5
Æ900×1800	38	1.8	0.4-2	15	5.5
Æ900×3000	37.5	2.7	0.8	17	7.2
Æ1200×2400	32	4.8	1.4-2	37	13.5
Æ1200×4500	30	5.2	1.4-3	45	13.8
Æ1500×1500	28.8	5	1.4-3.5	45	14
Æ1500×3000	28.8	8	2.5-4	75	17
Æ1500×5700	28.8	12	4-6	115	25
Æ1830×3500	24.5	13	4-8	160	30
Æ1830×7000	24.5	21	7-10	210	36
Æ2100×3500	23.8	20	4.5-3.3	185	37
Æ2400×7000	21.4	24	14-16	420	50

Max Feeding Size

25 mm