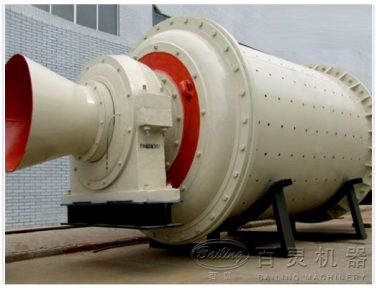
# Centrally-Driven Ball Mill with Self-Aligning Roller Bearing

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

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| **Maintenance Benefits** | Easy Installation, Simple Operation, Reduced Replacement Frequency, Convenient Disassembly, 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 |

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|---|---|
| Max Feeding Size | 25 mm |


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