

*Operating Instruction*

# ROD MILL

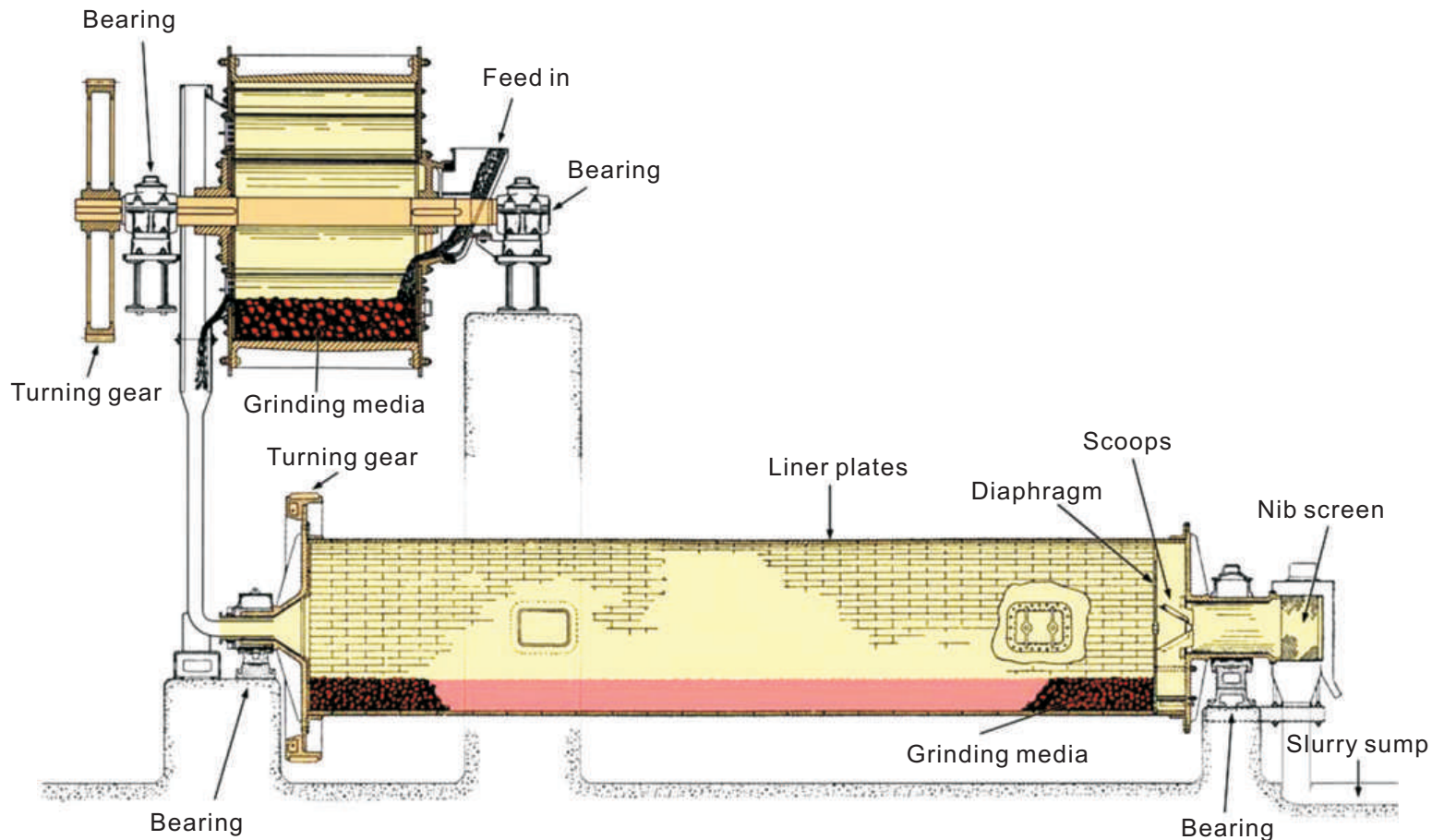


**Henan Hongxing Heavy Machinery Co., Ltd.**

## The Handling Materials and Function of Rod Mill:

Rod mill is mainly used for processing and crushing raw materials such as feldspar, quartz and ore, and also for the fine and medium crushing of many kinds

of hard and crisp materials such as refractory matter, cement, steel grit, slag powder, copper ore, iron ore, gold ore sand, concrete aggregate and pitch aggregate.



## The Application and Advantages of Rod Mill:

The discharging granularity of rod mill is even and the output is higher. It is widely used in the grinding process that has higher requirement for the uniformity of the final products in wear-resisting

material, chemistry, and metallurgy and glass industry and in recent years it is also used in the sand making industry.

## Characteristics:

Processing ability: 0.5–500 t/h

Feeding size:  $\leq 25$  mm

Applied material: cement, silicate, new-type building material, refractory material, fertilizer, ore dressing of ferrous metal and non-ferrous metal.



## Features

The features of rod mill are that in the ore grinding process, the grinding media contact with the ore in a linear manner, so that it has selective grinding function. The granularity of the final products is even, and the amount of the particles that are over crushed and ground is low. When used for coarse grinding, the processing amount of rod mill is higher than that of the ball mill with the same specification.



## Working principle:

The electro motor drives the cylinder to rotate through the reduction gears and the peripheral rack wheel reducer transmission, or the low speed synchronous motor directly drives the cylinder to rotate through the peripheral rack wheel reducer transmission. Inside the cylinder, there are proper ore grinding media-steel rod. Under the eccentric force and frictional force, the ore grinding media are lifted to a certain height and fall down in the state of dropping. The materials to be ground continuously go into the cylinder from the ore feeding mouth and are crushed by the moving grinding media, and then are discharged by the overflow and the force of continuous feeding to go to the next procedure.

## Technical data:

Model	Shell Specifications (mm)		Shell rotation speed (r/min)	Feeding size (mm)	Discharging size (mm)	Processing capacity (t/h)	Power (kw)	Total weight (kg)
	Diameter	Length						
MBS0918	900	1800	36-38	$\leq 25$	0.833-0.147	0.62-3.2	18.5	5500
MBS0924	900	2400	36	$\leq 25$	0.833-0.147	0.81-4.3	22	6100
MBS1224	1200	2400	36	$\leq 25$	0.833-0.147	1.1-4.9	30	12000
MBS1530	1500	3000	29.7	$\leq 25$	0.833-0.147	2.4-7.5	75	16800
MBS1830	1830	3000	25.4	$\leq 25$	0.833-0.147	4.8-11.6	130	29000
MBS2130	2100	3000	23.7	$\leq 25$	0.833-0.147	14-35	155	34800
MBS2136	2100	3600	23.7	$\leq 25$	0.833-0.147	19-43	180	37000
MBS2430	2400	3000	21	$\leq 50$	0.833-0.147	25-65	245	54000
MBS2736	2700	3600	20.7	$\leq 50$	0.833-0.147	32-86	380	86000
MBS2740	2700	4000	20.7	$\leq 50$	0.833-0.147	32-92	400	94000
MBS3245	3200	4500	18	$\leq 50$	0.833-0.147	64-180	630	137000

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