Manganese Ore HC Super Large Grinding Mill

------Super Large Pendulum Mill in Asia, Technical Revolution of Pendulum Mill Industry, Upgraded Production of Traditional Raymond Mill

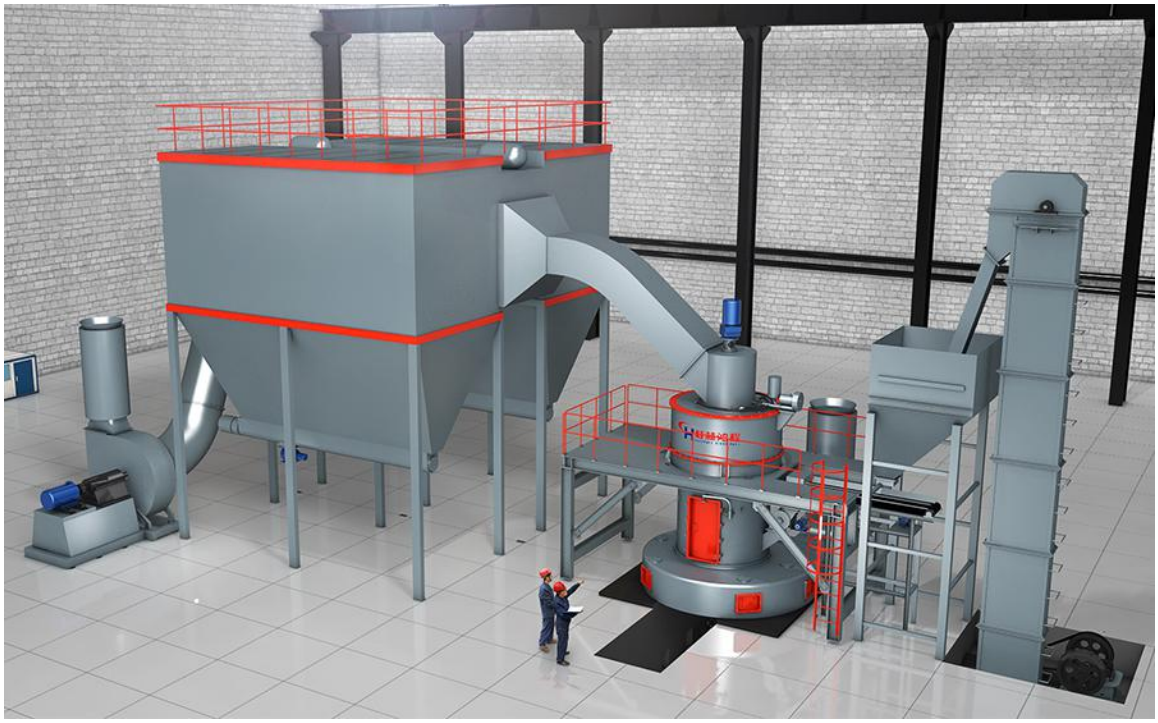
Max feeding size: 40mm
Capacity: 10-40t/h
Fineness: 0.18mm-0.038mm(80-400 mesh)

HCMilling(Guilin Hongcheng) provides exclusive **Manganese Ore Raymond mill** equipment with customers for grinding Manganese Ore powder. The fineness can achieve 0.18mm(80 mesh) to 0.038mm(400 mesh), and maximum capacity reach 40t/h. The powder processed by **Manganese Ore Grinding Mill** can be used in the construction, transportation and packaging sectors. It is an indispensable raw material for the electrical industry, aircraft manufacturing industry, machinery industry and civil appliances. HCM takes customers as the center, customizes exclusive selection scheme, and creates value for customers.

Introduction of Manganese Ore HC Super Large Grinding Mill （HC1900，HC2000.,etc.）:

Manganese Ore Grinding Mill is the largest pendulum roller mill in China, developed by our engineer on the basis of HC1700 grinding mill. It has 5 patents. This kind of mill plays a leading role in grinding technology, production capacity and power consumption per ton.

This grinding mill is a renewal equipment of traditional Raymond mill.The fineness can be adjusted from 0.18mm(80 mesh) to 0.038mm(400 mesh), whose range is much wider than that of traditional Raymond mill. It is an excellent Manganese Ore grinding mill equipment made by HCM, which breaks through the bottleneck of traditional grinding mill such as low production and high consumption. Compared with the traditional Raymond mill with the same power, the output can be increased by more than 40%, the unit power consumption cost can be saved by more than 30%, and the powder quality is even and fine. HCM will provide customers with specific selection scheme and reasonable price according to the grinding fineness & capacity requirements, and installation environment provided by customers.



Mill Structure:

Technological process of Manganese Ore powder making:

Stage 1: Crushing of raw materials

The feed fineness of Manganese Ore bulk material broken by crusher can enter into the grinding mill（15mm-50mm）

Stage 2: Grinding

After crushing, small pieces of Manganese Ore are sent to the storage hopper by the elevator, and then evenly and quantitatively fed into the grinding chamber of the grinding mill for grinding by the feeder.

Stage 3: Classifying

The ground materials are graded by the grading system, and the unqualified powders are returned to the host machine for regrinding after being graded by the classifier.

Stage 4: Collection of finished products

The powder with fineness will flow through the pipeline into the dust collector for separation and collection. The collected finished powder is sent to the finished product bin by the conveying device through the discharge port, and then packaged by powder loading tanker or automatic packer.

Technical data of Manganese Ore HC Super Large Grinding Mill:

Model	Roller Number	Ring Diameter (mm)	Max Feeding Size (mm)	Fineness (mm)	Capacity (t/h)	Total Power (kw)	Main machine Power (kw)
HC1900	5	1900	40	0.038-0.18	10-35	555	250
HC2000	5	2000	40	0.038-0.18	15-45	635-705	315

Note: Select the main engine according to the output and fineness requirements.

Performance advantages:

1. Advance equipment, reliable operation
(1) Frame style cast pedestal has stable structure and high shock resistance, it can also avoid cracking or damage of vibration.

(2) Shock absorbing axle sleeve made from special rubber and wear-resistant material not only absorb the vibration, but also has long service time.

2. High efficiency, low cost
(1) Single capacity can reach 90t/h, 40% higher capacity than traditional Raymond mill, 30% higher than ball mill (under the same condition).

(3) Applied high efficiency turbine classifying technology, production fineness can be adjusted from 80 mesh to 400 mesh. At the same time, applied air sealing obstruct technology to improve efficiency and accuracy in powder classifying, ensuring the percent of pass.

(4) Unique feeding method ensuring evenly material distribution to increase grinding efficiency. Moreover, it will increase the capacity and reduce abrasion.

(5) Applied offline pulse dust collector or pulse-jet collector (Patent No.CN200820113691.6), high capacity of dust removing, long service time of filter bags. 99.9% of the powder can be collected. The sealing for the mill ensures no powder floating in the workshop, so the equipment is more suitable for high dust concentration and high moisture site.

(6) 20-30dB lower noise than ball mill.

3. Advanced technology, easy maintenance, low operation cost
(1) Compact, reasonable and reliable spider-arm structure, the grinding ring can be changed without tearing down, which can reduce maintenance time and avoid unexpected trouble.

(2) Multi-layer blocking sealing structure（Patent No.CN200820113450.1）: The roll assembly works in high dust concentration environment. The lamination sealing of the traditional R type roller mill sealed bearings unreliable. While this proposal adopted with multi-layer blocking sealing structure which combined with the floating oil sealing technology, screw seals and skeleton seals to prevent dust going into the bearing. Keep the roll assembly working smoothly and durable. Vastly short the maintenance time. The traditional R type roller mill needs lubrication each 1-2 days.

The newly designed sealing structure ensures the roller assembly works continuously for 500-800 hrs without lubrication.

(3) Applied high performance wear-resistance material to cast wear-resistant parts, offering high wear-resisting property and long service life. High-chromium alloy can be applied to deal with high power and high burden grinding task, in this way, the service life will have 3 times longer than industrial standard.

(4) Equipped with combined cover structure, the roller and ring can be replaced without removing other parts, offering an easy maintenance.

(5) Applied frequency control and can be operated by PLC, realized unmanned operation and save up label cost. Customers can also choose long distance intelligent monitoring system to control the operation state.

4. High coat-effective, low investment cost

(1) The equipment has strong systematic because it can organize an independent and complete production system of raw material crushing, transporting, grinding to production collecting, storing and packing. The grinding mill is in stereo-chemical structure, consume small floor space (1/3 floor space of 4R mill under same capacity), largely reduce construction cost.

(2) High applicability, need not to change any parts before processing different material or fineness.

(3) Lower investment cost than vertical mill under same capacity.