



Product

Brief Introduction:

HGM Micro Powder Mill (Full name is HGM series three-ring & medium-speed micro-powder mill) is designed basing on our 20 years' manufacturing experience, absorbing the Swedish advanced machine manufacturing techniques. It is a new type of mill for making super fine powder through more than 20 times of test and improvement. It is the latest type of product of micro-powder mill that leads the world tide. It is the grinding equipment used to process fine powder and super-fine powder.



Highlights:

- (1) Low investment cost. With the same product fineness and generator power, it has low investment cost, short return period and twice more output compared with the airflow mill, stirring mill or ball mill.
- (2) High powder output. With the same fineness and power consumption, its powder output is more than the airflow mill or stirring mill by 45%.
- (3) Low wear and long service time of wear parts. All the wear parts are made of domestic and foreign anti-friction material. Their service life is



longer than that of the wear parts of ordinary mill equipment. Generally, they can be used for more than one year.

(4) High security and reliability. The operation which is inside of the grinding chamber is safe and reliable. Compared with an ordinary mill, there is not rolling axletree or screws, so there is no problem of wear of the axletree and other sealed parts, and it avoids the problem that the machine is damaged due to loosen screws.

(5) High fineness of finished product. The final fineness can reach $d_{97} \leq 5\mu\text{m}$ through one-time processing.

(6) Pollution-free. It adopts an efficiency pulse dust collector, so there is no dust pollution in the complete operation process. In addition, it is equipped with a muffler and sound proofing room so that the pollution and noise can be reduced in accordance with the environment-protection standard, and surrounding environment is protected.



Working Principle:

The motor drives the main shaft and every turnplate through the reducer. The reducer drives dozens of rollers to rotate against race way of ring through pin. Small material crushed by hammer crusher is transported into hopper by elevator, and then vibrating feeder shall feed material to the central part of upper turnplate evenly. The material falls to circle under the



centrifugal force and comes down to raceway of ring to be crushed into powder. After grinded in the first race way, the material goes to the second and third turnplate. The blower inhales the external air into the mill and carries the powder after third turnplate into powder-separator. Turbine in the separator makes the coarse powder drop down and regrinded and the fine powder shall go into cyclone powder collector together with air current and go down through discharge valve as final product; at the same time, air current with a little dust goes out through blower and muffler after purified by filter.



Technical Data:

TABLE 1

Model	HGM80	HGM100
Roller number	21	27
Ring Diameter (mm)	Φ800	Φ1000
Ring number	1x3	1x3
Main unit speed(mm)	180-250	150-200
Max. feeding size(mm)	10	10



Final size (mesh)	325-2500	325-2500
Capacity (kg/h)	400-4500	900-6500
Overall dimension (m)	13.5×4×6.5	18x4.5x8.6

TABLE 2

Name	Item	Unit	Specifications & Technical Data	
			HGM80	HGM100
Motor for main frame	Model		Y2-250M-4	Y2-315M-6
	Power	kW	55	110
Motor for separator	Model		Y2-180M-4	Y2-200M-4
	Power	kW	18.5	30
Motor for Elevator	Model		Y100L-4	Y112M-4
	Power	kW	3	3
Motor for Blower	Model		Y2-255M-2	Y2-280M-2
	Power	kW	45	75
Motor for Hammer Crusher	Model		PC400x300	PC600x400
	Power	Kw	11	18.5
Motor of Vibrating Feeder	Model		GZ1F	GZ1F
	Power	Kw	0.06	0.06
Motor of discharge valve	Model		ZJD200	ZJD200
	Power	Kw	0.75	0.75
Impulse bag filter	Model		DMC120	DMC184
	Power		7.5	



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