

## HGM Three-Ring & Medium-Speed Micro Powder Mill

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.



HGM series three-ring medium speed micro-powder mill is designed to get fine and super fine powder. It is mainly used to process more than 200 kinds of non-inflammable, non-explosive and brittle materials with Moh's hardness below 6 scale, such as calcite, chalk, limestone, dolomite, kaolin, bentonite, talc, mica, magnesite, illite, pyrophyllite, vermiculite, sepiolite, attapulgite, tablite, ceysstite, barite, gypsum, alunite, black lead, fluorite, phosphate rock, potassium ore, floatstone etc. When HGM mills are used to process materials with Moh's hardness between 4-6 scale, the service lifetime of easy-worn parts shall be shortened as it relies on the hardness of raw material.

### Features:

Three-Ring & Medium-Speed [Micro Powder Mill](#) has high efficiency and low cost. Its capacity is raised by 40% compared with airflow mill and mix mill on the condition that the materials, the drive and the fineness of the final powder are the same. The life span of tear & wear parts is more than that of straight impact crusher and turbine mill under the circumstance of same materials and fineness of the final powder. Usually, its life span is more than one year. There is no rolling bearing and screw in the grinding cavity, so as to avoid the damage to the machine caused by tear & wear of bearing and seals and the looseness of screws. The fineness of powder can reach  $\leq 5\mu\text{m}$  with d97 once.

### 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:**

| Model                 | HGM60    | HGM80        | HGM100       |
|-----------------------|----------|--------------|--------------|
| Roller number         | 15       | 21           | 27           |
| Diameter (mm)         | Φ600     | Φ800         | Φ1000        |
| Ring number           | 2        | 2            | 2            |
| Main unit speed(mm)   | 235      | 235          | 235          |
| Max. feeding size(mm) | 10       | 10           | 10           |
| Final size (mesh)     | 325-2500 | 325-2500     | 325-2500     |
| Capacity (kg/h)       | 350-2500 | 600-4000     | 900-6000     |
| Overall dimension (m) | 10×2×5.5 | 12.4×2.5×5.8 | 14.5×3.8×6.3 |

Notice: Any change of HGM series [Micro Powder Mill](#) technical data shall not be advised additionally.

**Contact Us:**

Thank you for your interest in Liming Heavy Industry. Please feel free to use any of the methods below to get in touch with us.

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