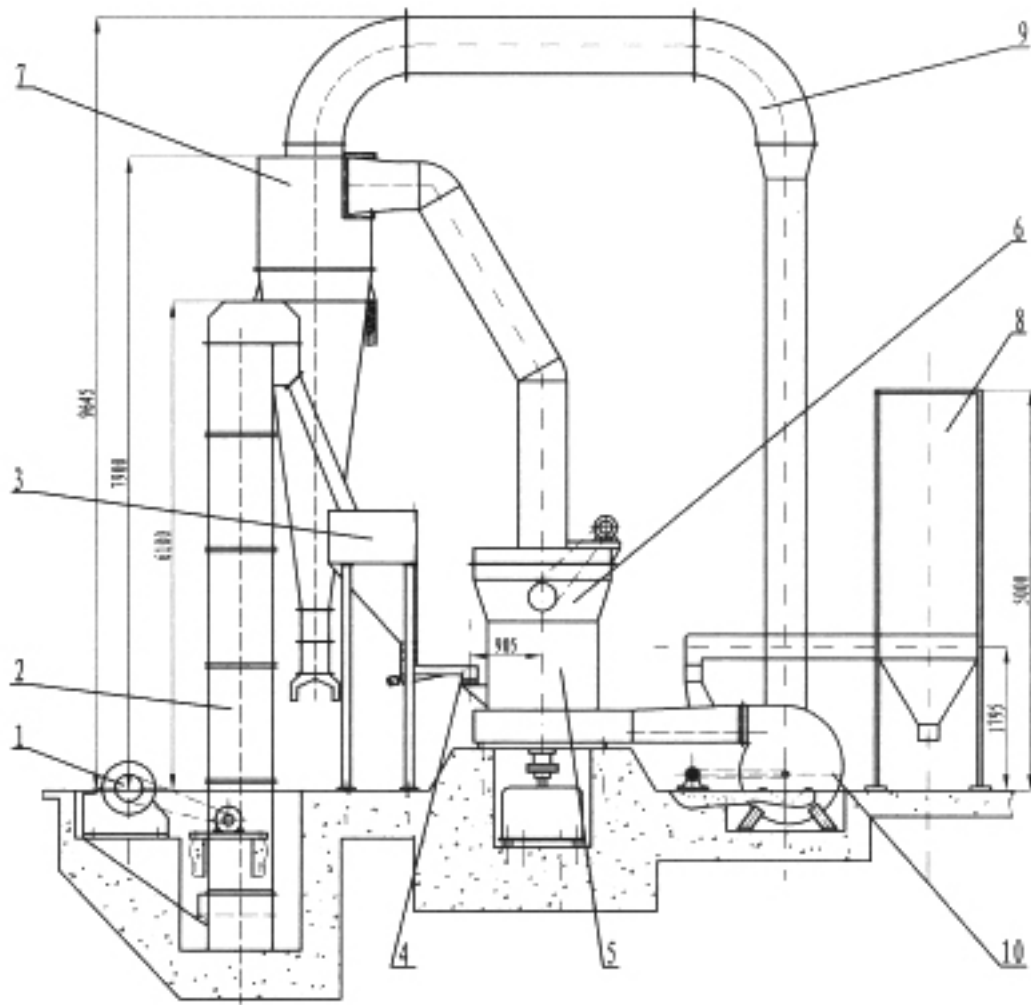


# High Pressure Suspension Mill



High Pressure Suspension Mill is a new kind of mill, which is invented with great concentration and on the basis of many years of powder processing experiences. This invention starts an epoch of high efficiency and low cost in international mining industry. High Pressure Suspension Mill can be used to grind non-inflammable and non-explosive materials with Moh's hardness below 9.3 and moisture content below 6%, such as barite, limestone, pottery. Size of final products can be adjusted between 30-425 meshes. High Pressure Suspension Mill can produce coarse powder between 30-80 meshes by adding special equipment. This machine is widely used in the fields like mining, chemical industry, construction materials, metallurgy, etc.





- |                               |                            |
|-------------------------------|----------------------------|
| NO.1 Crusher(颚破)              | NO.2 Elevator(提升机)         |
| NO.3 Material Hopper(料仓)      | NO.4 Vibrating feeder(给料机) |
| NO.5 Main machine(主机)         | NO.6 Separator(分析机)        |
| NO.7 Powder Collector(集粉器)    | NO.8 Dust Eliminator(除尘器)  |
| NO.9 Pipe(管道)                 | NO.10 Blower(风机)           |
| NO.11 Electric Switch Box(电柜) |                            |





In the mainframe of High Pressure Suspension Mill, there are strong springs with pressure as high as 100-1500 kg equipped on the roller suspender. When High Pressure Suspension Mill works, the roller rotates around the principal axis, and clings to ring under the effect of the strong spring and eccentricity. Its press is 1.2 times of Raymond Mill under the same press condition, so the production is largely increased. When the materials are sent into the grinding chamber, they are brought to the space between the roller and ring and get grinded. Then the powder grinded will be blown into separator. The fine powder after departed with the air is discharged through the outlet as final product. The large-sized powder falls back for regrinding. The air will be back to the blower for repetition of the above process. The left air will come to the bag filter to get cleaned. When the wear and tear between roller and the ring reaches certain degree, adjust the length of the strong spring, so to keep the invariable pressure between the roller and the ring, to make sure the stable production and the fineness.



## Characteristics

- Compared with other mills, its capacity increases by 10%-20% under the same power condition, and compression force of rollers to material improve 800-1200kgf under the force of high-pressure spring.
- Size of final product can be 0.613mm (30mesh) –0.033mm (425mesh). Some can reach the fineness of 0.013mm (1000 mesh).
- High Pressure Suspension Mill meets the requirement of national dust-dump standard.
- The separator can be adjusted very easily.
- The multi-class seals are adopted to keep the grinding equipment tightly closed.

## ■ Easy Worn Parts



No.1 seat  
底座



No.2 roller assembly  
磨辊总成



No.3 gear-box  
减速机箱



No. 4 impeller  
assembly of blower  
风机叶轮总成



No.5 vane assembly of  
separator  
分析机叶片总成



No.6 bearing house  
of roller  
磨辊轴承室



No.7 gear shaft  
齿轮轴



No.8 oil pump  
油泵



No.9 lower cover of  
roller  
磨辊下压盖



No. 10 roller  
磨辊



No.11 ring  
磨环



No.12 gear for  
decelerator  
减速机齿轮



No.13 liner  
衬板



No.14 vertical  
bearing seat  
立式轴承座



No.15 shovel frame  
铲刀架



No.16 frame for  
compressing spring  
弹簧压架



Model	Piece of roller	Size of the roller (mm)	Size of the ring (mm)	Feed size(mm)	Fineness of powder (mm)	Capacity (t/h)	Motor power (kw)	Weight (without motor)(t)
YGM65	3	Φ210×150	Φ650×150	≤15	0.033-0.613	0.4-1.8	15	3.6
YGM75	3	Φ260×150	Φ780×150	≤15	0.033-0.613	1-3	18.5	4.8
YGM85	3	Φ270×150	Φ830×150	≤20	0.033-0.613	1.2-4	22	8
YGM95	4	Φ310×170	Φ950×170	≤25	0.033-0.613	2.1-5.6	37	14
YGM130	5	Φ410×210	Φ1280×210	≤30	0.033-0.613	2.5-9.5	75	24

Notice: Any change of High Pressure Suspension Mill technical data shall not be advised additionally.



### Screening & Washing

Sand Washing Machine  
Circular Vibrating Screen

### Feeding & Conveying

Belt Conveyor  
Vibrating Feeder

### Crushing

Jaw Crusher  
Impact Crusher  
Hammer Crusher  
Spring Cone Crusher  
Hydraulic Cone Crusher  
VSI Sand Making Machine  
PCL Sand Making Machine  
European Type Jaw Crusher  
PYS Symons Cone Crusher  
Mobile Crushing & Screening Plant

### Grinding Plant

Ball Mill  
Raymond Mill  
High Pressure Suspension Mill  
MSB series Coarse Powder Mill  
Super Pressure Trapezium Grinding Mill  
HGM Three-Rings & Medium-Speed MicroPowder Mill

### New Production Technics

Grinding Production Line  
Sand Making & Washing Plants  
Stone Crushing & Screening Plants  
Manufactured Sand Processing Chart  
Construction Waste Crushing Technics  
Basalt Aggregate for Express Highway Processing Technics

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