

# VIBRATION GRINDING MILL HP-M 100P



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SAMPLE PREPARATION FOR XRF/XRD ANALYSIS

**HERZOG**

# VIBRATION GRINDING

Sample preparation for

## SAMPLE PREPARATION FOR PRECISE ANALYSES

Program-controlled grinding processes for sample preparation for x-ray analysis.

Highest reproducibility by automated work process. Also clear decrease of the work place dust and noise load due to increased safety. Herzog vibration grinding mills are closed completely, noise-insulated and have a safety switch-off for operating personnel protection.

With their high technical standard at low construction sizes, Herzog vibration grinding mills fully comply with the laboratory requirements.

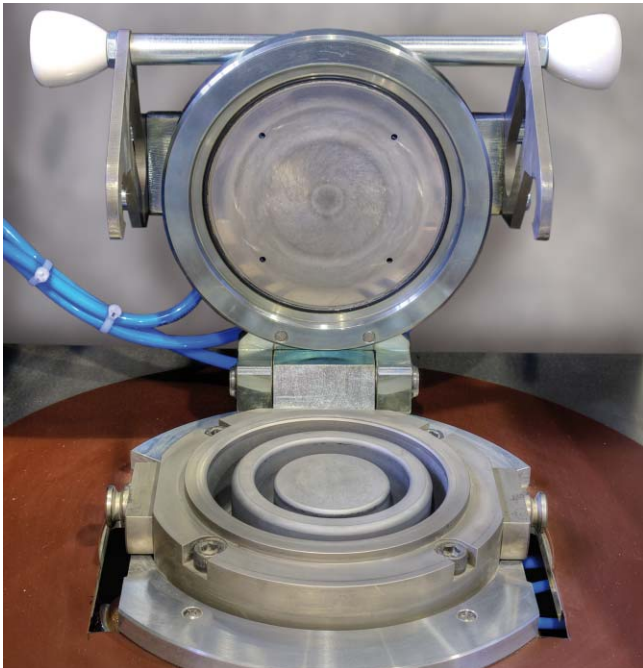
## HERZOG VIBRATION GRINDING MILLS – SHORTER GRINDING PROCESSES, LONG SERVICE LIFE

The Herzog vibration grinding mill HP-M100P is suitable for grinding minerals, slags and ferrous alloys as well as organic materials. The high speed of the drive motor guarantees for short grinding processes even for hard materials. The robust build with double eccentric bearing ensures a long service life of the mill at the lowest maintenance effort.

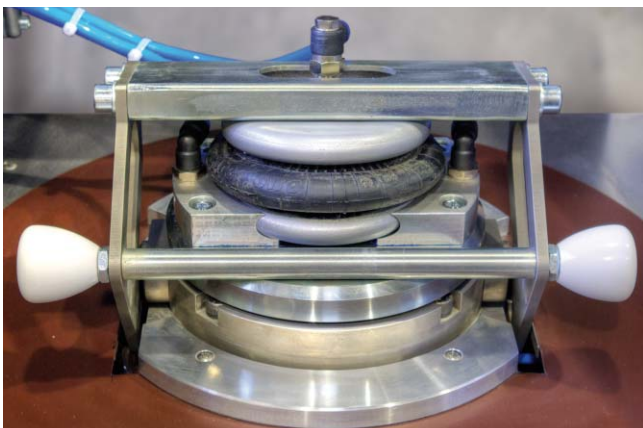
## SIMPLEST OPERATION WITHOUT APPLICATION OF FORCE

The grinding vessel is firmly attached to the vibrating aggregate and can be opened and closed by a handle. The good accessibility enables fast and clean filling of the grinding vessel. The grinding vessel lid is locked pneumatically.

After grinding, the sample material is filled into a stainless steel cup and can be removed at once at the output position during the cleaning of the vessel.



The grinding vessel can be opened with a handle



Pneumatic locking of the grinding vessel



Separate sample output position

# GRINDING MILL HP-M 100P

for XRF/XRD-analysis

## AUTOMATIC GRINDING VESSEL CLEANING

The grinding vessel is cleaned automatically after every grinding process. Thus, the work place dust load is much decreased. The handling of heavy grinding vessels is therefore completely eliminated.

## PROGRAMMABLE LOGIC CONTROL (PLC) WITH 5 PREPARATION PROGRAMS

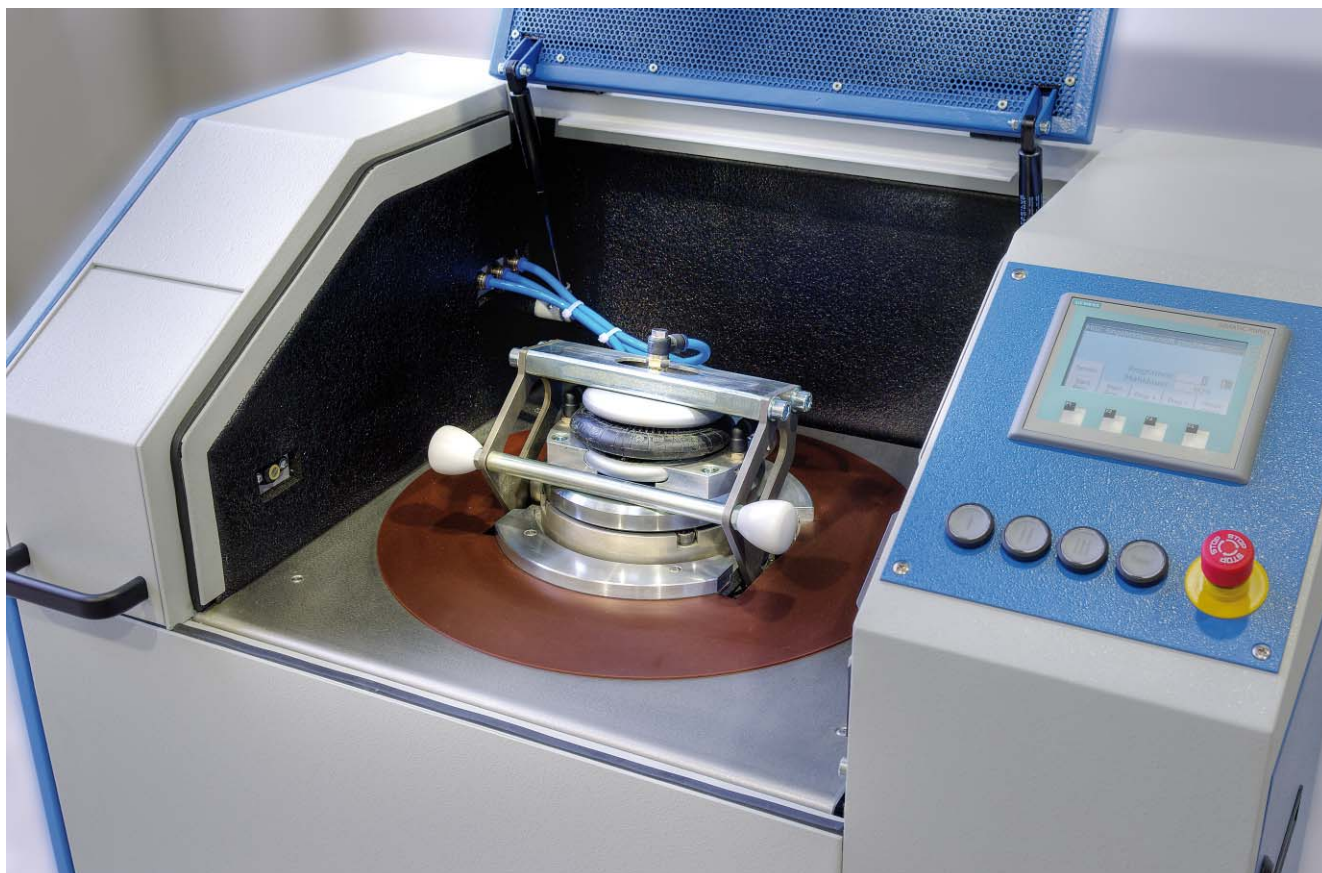
The integrated Simatic PLC guarantees for reliable, automatic sample preparation of many different sample materials.

Up to 5 processing programs can be stored.

All parameters for grinding duration and grinding speed, as well as for sample output and cleaning are deposited as program parameters and can be set at the control panel.



Touch screen operating panel



HP-M 100P vibration grinding mill

## TECHNICAL DATA VIBRATION GRINDING MILL

### Model HP-M 100P

Color: blue/white, RAL 5007/7035  
Text: english

### Dimensions L x W x H

Machine: 570 x 950 x 1170 mm

### Weight

Machine: 355 kg

### Power supply and consumption

Voltage: 400 V, 50 Hz, 3 phases  
Neutral conductor: not required  
Power consumption: approx. 2 kVA

### Compressed air supply and consumption

Pressure: min. 5 bar, max. 10 bar  
Consumption: approx. 1050 nl/sample  
max. 1870 nl/min

### Disposal connections

Outer diameter: DN 80 mm  
Required extraction  
output: 7 m<sup>3</sup>/min at 370 Pa

### Electrical cabinet (integrated)

PLC control: SIMATIC S7  
Control voltage: 24V DC  
Protection type: IP 54  
Insulation class: B

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### Sample types

Different materials, e.g. raw meal, cement, clinker, slags, ore, organic materials

Grain size: max. 5 mm  
Hardness: max. 9 Mohs

### Processing parameters

- Grinding time
- Grinding speed
- Output time
- Cleaning time



The machine is manufactured in accordance with European CE Directives.

We reserve the right to make technical modifications.



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