



SAMPLE PREPARATION FOR X-RAY FLUORESCENCE ANALYSIS

HP-M 100 Semi-Automatic Fine Grinding Mill

The fine grinding mill is suitable for the pulverisation of different kinds of sample material, for example silicate, cement, ceramic material, ores, sinter and slags as well as ferro alloys and various other minerals.

The sample material is filled manually into the grinding vessel.

After closing the grinding vessel and the machine housing the grinding cycle is activated by pressing the start button on the control panel.

After grinding the sample material is automatically discharged into a stainless output cup and the cleaning of the grinding vessel is started by means of compressed air.

Parameter for the grinding and cleaning programs such as grinding and cleaning time, can be preselected at the control panel.

The dust is removed by an external dust collector.

The machine is totally enclosed, sound insulated and requires a minimum of operators' time and maintenance.

Safety switches automatically deactivate the machine in case of breakdown.

Messages are shown on the display of the operator panel.

THE MACHINE CONSISTS OF:

- noise insulated housing
- connection stud for dust collector
- Siemens S7 control
- operator panel
- integrated electric and pneumatic switch cabinet



TECHNICAL DATA :

Dimensions:

1250 x 700 x 780 mm

Weight:

Approx. 430 kg

Electrical power supply and consumption:

400 V , 50 Hz, 3 - phase, or other as required

Neutral conductor not required

Power consumption of approx. 2,5 kVA

Compressed air supply and consumption:

Pressure setting: min 5 bar, max. 10 bar

Consumption: approx. 10l / per sample

Electrical switchgear cabinet:

Programmable controller: SIMATIC S7

Control voltage: 24 V DC

Protection class: IP 44

Insulation class: B

Processable samples:

Various minerals, cement raw meal, clinker, cement, slag, ores, oxydes, ferro-alloys

Grain size: max. 10 mm

Hardness: max. 9 Mohs

Temperature: max. 100 C

The design of the machines correspond to the current German accident prevention and VDE regulations.
We reserve the right to make technical changes.