



**SIEBTECHNIK TEMA**



# VIBRATING DISC MILL HEM 2000-A

Large samples quickly ground  
analytically-fine!

# Vibrating Disc Mill HEM 2000-A

The HEM 2000-A vibrating disc mill can be used to grind down all brittle, dry and non-caking materials to analytical fineness.

Break-down in the HEM 2000-A high-energy mill is done in a discontinuously operating tungsten carbide grinding bowl with a sample charge capacity of up to 2000 ml.

The grinding tools take the form of impact rings and a grindstone fitted into the grinding bowl so as to be freely movable. The grinding bowl is made to vibrate eccentrically and horizontally in a circle 100 mm indiameter by a centrifugal drive, exerting on the material to be ground forces up to 50 times as great as the acceleration of gravity. The very high acceleration forces acting on the grinding tools cause them to rotate one about the other like planets. This sets up enormous impact, friction and shear effects between the walls of the grinding tools, enabling the sample material to be ground down very quickly to the required analytical fineness.

Because of the large capacity of the grinding bowl large sample volumes can be broken down and at the same time homogenised in the mill. At the end of the grinding time the sample is emptied fully-automatically out of the grinding bowl into a collecting bottle. The collecting bottle can be easily detached from the front of the mill. To prevent cross-contamination from one grinding operation to the next, the grinding bowl is cleaned with compressed air before the next charge grinding.

The machine is controlled from a touch panel by means of which parameters such as grinding time and emptying and cleaning times can be set and adjusted to suit the material to be ground.



Grinding bowl opened



Grinding bowl closed

Vibrating disc mill		HEM2000-A
Dimensions (W x H x D)	mm	802 x 1440 x 1422
Weight	kg	Approx.. 1200
Motor	kW	7,5
Usable volume of grinding vessel	mL	2000
Feed granular size (max.)	mm	10
Compressed air requirement		20 dm <sup>3</sup> /grinding; 8 bar
Operating voltage		400 V, 3/N/PE, 50 Hz
Subject to technical alterations		