



BREITLÄNDER

Eichproben + Labormaterial GMBH

Hans-Sachs-Str. 12 - D-59077 HAMM
Tel. 02381/404000, Fax 403189, e-mail: mail@breitlander.com

Desktop Swing Mill HK40

for effective grinding of mineral based samples

HK40

Technical Data

Dimensions	345 x 295 x 540 mm
Mass	~ 40 kg
Motor	230 V, 50 Hz, 200 W 115 V, 60 Hz
Time setting	max. 10 min var. in 1 sec steps

Interruption of grinding process at any time with stop button

Material Applications

Various minerals, cement, clinker, rocks, soils, slags, refractories, ores etc.

Starting particle size approx. 5 mm



SWING MILL HK 40

- Compact, portable swing grinder, fully balanced for lab table operation
- Takes various 100ml grinding vessels for effective grinding of about 30 ml sample material
- Reproducible setting of milling time by electronic timer interval setting in steps of seconds
- Electronically locked working room during operation

Grinding Vessels

HK40

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BR HKMG3 Hardened Steel

Universal grinding vessel for general purpose applications with high durability from internally hardened steel, abrasion resistance moderate compared to corundum, hardness MOHS 5.5-6, Vickers HV 800, Matrixelement Fe, minor elements Cr, Si, Mn, C, W + V



BR HKMG4 Nitrided Steel

The surface hardness (0.1mm depth) of this steel vessel is considerably higher than the regular hardened steel one. This vessel is thus suitable for harder material with very good durability and toughness for routine work. Hardness MOHS 6, Vickers HV 1150, Matrix and minor elements as above



BR HKMG5 Tungsten Carbide

Tungsten carbide is much harder and of higher specific weight than steel. This type of grinding vessel is widely used in laboratories because it allows fast and most effective grinding of very hard samples. Hardness is MOHS 8.5, Vickers HV 1500, Matrix W, C and Co, minor elements Ta, Ti + Nb

Ceramic vessels

The hardness and resistance to abrasion and corrosion is very high, however these ceramic materials are very fragile and should be handled carefully.



BR HKMG1 Corundum 99.6%, bio-inert

This material has very high resistance to abrasion and these vessels are chosen when steel or tungsten carbide vessels are not applicable due to unwanted metal element contamination. Hardness is very high MOHS 9, Vickers HV 1650, matrix element is Al with traces of Si, Ca, Mg, Na + Fe



BR HKMG2 Corundum 99.9%, bio-inert

This very high pure material shows lowest trace elements and provides the ultimate hardness of grinding vessels. It is used in applications with requirements for least contamination. Hardness MOHS 9+, Vickers HV 1850



BR HKMG6 Zirconia Oxide 99.9%

This high pure material is of special interest to the analyst, as there is very low contamination from elements normally not of interest like Zr and traces of Hf, Y and Mg. The higher specific weight increases the grinding speed over corundum. Hardness MOHS 8.5, Vickers HV 1350

Various grinding, blending and pelletizing additives available