



APPARATUS FOR THE PREPARATION OF SPECTROMETRY



HK 80 F SEMI - AUTOMATIC MILLING MACHINE WITH NC-CONTROL UNIT

Special milling machine for fast milling of non-ferrous metal samples for emission- and X ray spectrometer analysis.

This machine is designed for non-ferrous and light metals samples plain milling as a preparation for spectrometric analysis. It also enables the preparation of precious metals alloys samples. The machine is controlled by a programmable numeric control in a semi-automatic duty cycle with hand setting of the cutting depth. The cutting speed is programmable in a wide range for nonferrous metals. Tending is easy.

The technical solution ensures cutting repeatability and sample surfacing reproducibility.



APPLICATIONS

Aluminium, Copper, Brass, Bronze, Zinc, Tin, Lead, Solder, Gold, Silver, Platinum.



SAMPLE TYPES

Sample cast in copper moulds, Parts of products, Sheets, Wires, Standards.



MILLING INSERTS

Our company supplies special inserts for semi automatic milling machine HK 80 F for preparing of samples of non-ferrous metals and metals alloys for spectral analysis.



REVOLUTION - CUTTING SPEED

SAMPLE SIZE

SPEED FEED FOR MILLING

CUTTER DIAMETER



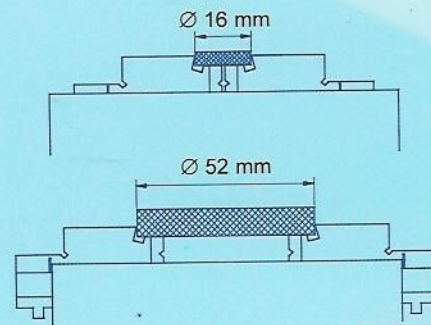
EASY OPERATION

The HK 80 F was designed with operational ease in mind. Digital monitor displays the various function codes and data values during the program.

During operation, it displays the output revolution, frequency, current, voltage, etc.

THE CONTROL STAND FOR CUTTER ADJUSTMENT

The inserts of face cutter must be precisely set for the same height. The precise setting is meaningful for the quality of the surface being cut.



Special exchangeable jaws for low samples chucking



CUTTERS

The milling machine operates without any liquid cooling. The instruments used are face cutters with exchangeable tungsten carbide inserts which enable cutting at a very high cutting speed.

SAMPLES CHUCKING

The machine is provided with a tree-jaw self-centering chuck in which circular samples of various sizes can be safely chucked (standard accessory) and four-jaw self-centering chuck for non-circular samples (optional accessory).



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TECHNICAL DATA

Operating cutter revolutions Continuous presetting Cutting speed Operating slide speed Fast slide advance	400 - 3600 rpm to 900 m/min 50 - 190 mm/min 2000 mm/min
Axial feeding - scale division Cutter Sample size: round max. edged max. height max.	0,05 mm Ø 63mm or Ø 80 mm Ø 80 mm 50 x 80 mm 60 mm
Dimension: Milling machine Control unit Mass Input (single phase) Motor	400 x 407 x 710 mm 180 x 430 x 330 mm 138 kg 230 V ± 5%, 50 - 60 Hz, 10 A 0.75 kW

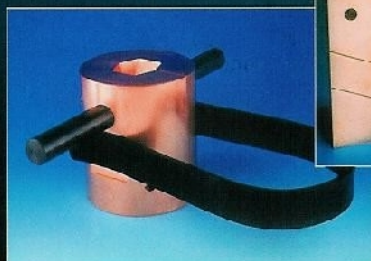
Possible technical changes reserved.

STANDARD SUPPLY

Control unit
Three-jaw-chuck (self-centring)
Cutter Ø 63 mm, + inserts
Clamping device (adapter) for cutter Ø 63 mm / 22 mm
Set of tools

OPTIONAL ACCESSORY

Four-jaw-chuck for edged samples (self-centring)
Sets of special jaws for low samples chucking
Device for alignment of inserts (control stand)
Cutter Ø 80 mm, + inserts
Clamping device (adapter) for cutter Ø 80 mm / 27 mm
Special cutter for samples of precious metals alloys (Au, Pt...)
Set of inserts for cutters
Spare parts kit



COPPER MOULD

Successful and many times tested mould construct on for sample casting. Only when using this mould your samples will be completely homogeneous.



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