

UltraMatic

The UltraMatic is the newest and most advanced Automatic Ultrasonic Reconditioning and Processing Machine for Natural Diamond Dies and Polycrystalline Diamond Drawing-Dies from 0.03 mm up to 4 mm diameter.

The system has integrated following functions:

- easy handling via Touch-Panel-Windows 7-PC controls all grinding, drilling, loading and powder dispenser functions and swivel-motions on the display.
- an automatic needle grinding device with angle adjustment and measurement via Touch-Panel PC
- integrated 500 watt generator with constant amplitude function allows the reworking of small and large PCD-Dies independent from the needle length. Also the wide automatic frequency range from 17,5 – 22,5 kHz allows the use of various ultrasonic horns and needles.
- fine regulated pneumatic die working pressure allows also the reworking of small dies
- loading magazine for up to 30 dies. Different casing sizes can be handled
- up to 4 powder mixer and dispenser controlled via PC for liquid diamond suspensions
- all functions can be controlled via LAN or Internet

Technical Data:

Ultrasonic Output Power: max. 500 Watt

Frequency Range: 17,5-22,5 kHz

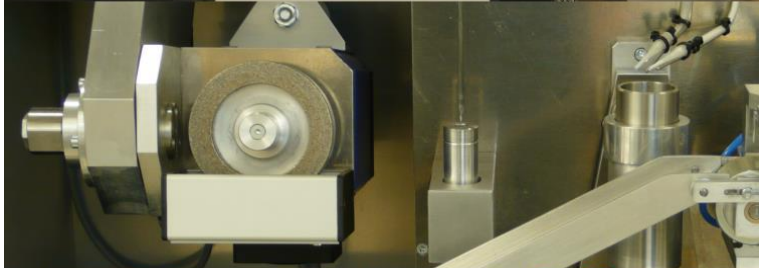
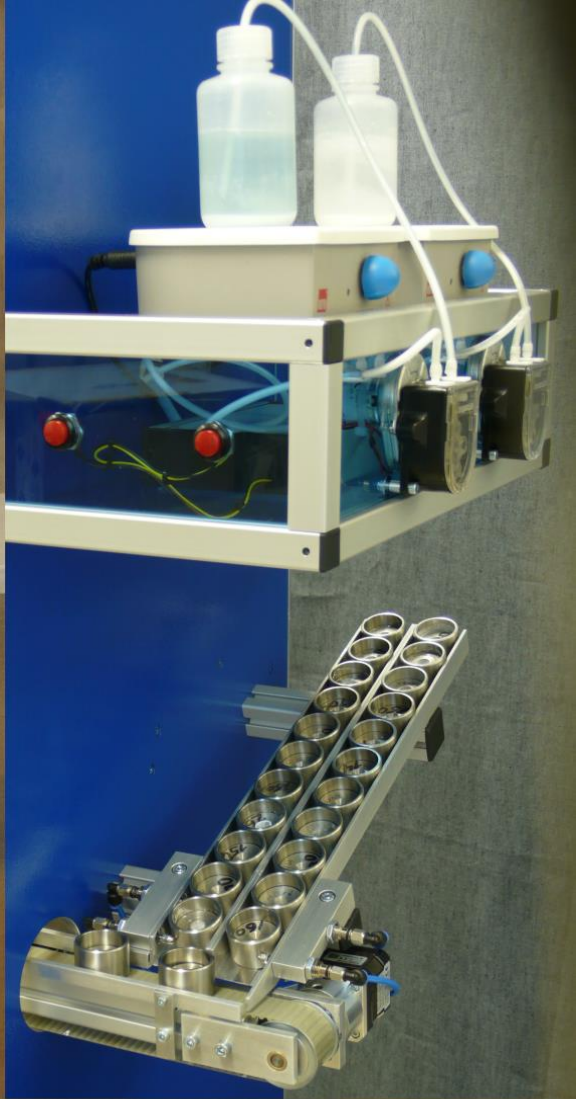
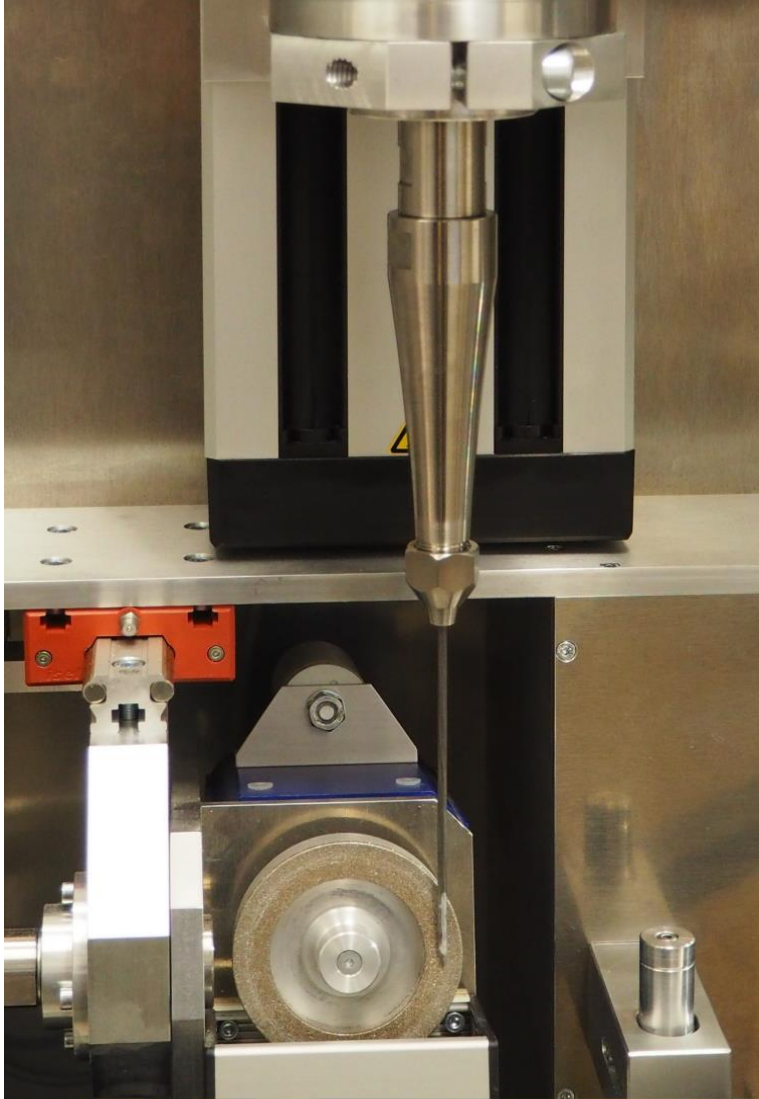
Amplitude Control: 0-100%

Voltage: 220-240 VAC

Air-Pressure inlet: 4-10 bar

Dimensions with Base Stand: (LxWxH) 110 x 62 x 188 cm

Total Weight: 185 kg



USER Manual Grinding

Program Nr: 002 Anglen: 20.0° Head fast: PROGRAM

Step 1: go to Grinding Position Step 2: start Motors

go top Left

Step 3: move

0.00 mm 0.00 mm

0.00 mm 0.00 mm

Step 4

stop and save stop show run Vertical Feed: 1 mm/s

Sweep Way: 15.0 mm

Sweep Speed: 27 %

Welcome

Programs

Grid

Run

Setup

Stop Motors

Out



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