

CMU

The automatic CMU is designed for the precise and efficient grinding/polishing of concave and convex shaped parts (watch-jewels, industrial-jewels, lenses for watch glasses and wearing parts made out of hard materials such as sapphire, ruby, ceramics or tungsten carbide). The machine has up to three independent production units mounted on the same base. Each of these units is separately driven and controlled. They are centrally lubricated and supplied with coolant as well as vacuum required to automatically handle the parts. Each unit's handling system uses two vacuum nozzles, one for loading and one for unloading. An automatic parts measuring system and a tool-setting device checks each individual parts after machining and if required, adjusts the diamond tools wear (compensation). The diamond tool is a diamond grinding "pin" or "tube". The units operate automatically controlled by a cam shaft mechanism. It is a fully automatic process, including a parts counter.

External diameter of the workpiece

about 0.5 – 8.0 mm

Grinding spindle diameter (mm)

2.5 / 3.0 / 3.5 / 4.0

Grinding tool speed

30000 min⁻¹

Workpiece spindle speed

setting n° 1 4'900 min⁻¹

setting n° 2 4'250 min⁻¹

Working angle

0° – 60°

Collets

P3 ; P5; / P5/10

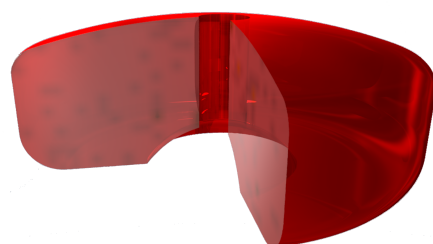
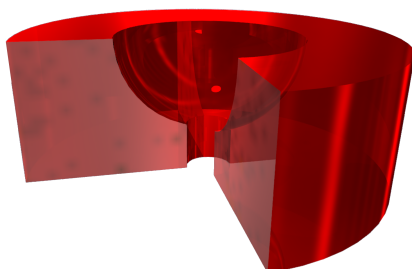
Electrical specification

voltage 3 x 380VAC

frequency 3PH 50Hz-60Hz

Dimensions (length x width x depth)

850 x 450 x 1150





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AVAILABLE ACCESSORIES

Collets

All machine components are available as spare parts