

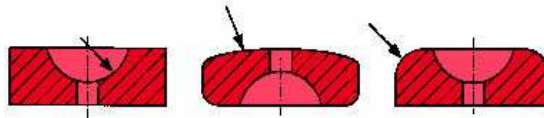
## CMU

### AUTOMATIC RECESSING MACHINE



#### Area of Application

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, tungsten carbide, ..



#### Machine Description

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 – so to speak.

#### Technical data

dimensions W x D x H	850mm x 650mm x 1150mm
weight	270 kg / 590 lbs.
supply voltage	3 x 380 VAC / 3PH 50-60 HZ
control voltage	24VDC
outside diameter of work pieces	approx. 0.5 – 8.0mm
grinding spindles	diameters 2.5 / 3.0 / 3.5 / 4.0mm
collets	P3 – P5 – P5/10
grinding tool speed	30'000 RPM
swivel arm	working angle 0 to 60° Degrees
quill / speed	4'900 rpm / 4'250 rpm