



Creep feed grinding from the solid: it always has been standard feature of the MHPE 500



Work examples:

## MHPE 500 Hydraulic surface grinding machine of high precision 500 × 200 mm (20" × 8")

The MHPE 500, a completely new model, is designed for surface and form grinding operations of highest demands as to precision, surface quality and efficiency.

The MHPE 500 is a machine of practical and modern design and high rigidity. Operation is extremely simple and handy. It is the ideal machine for the tool industry, the instrument industry, the mechanical and precision industry and for machining of single components up to grinding of large batches.

### Special advantages:

- Fully hydraulically operated slide movements (by means of one variable volume pump), infinitely adjustable from 0 to 25 m/min (0 – 82 feet/min). Creep speed control on longitudinal slide from 0,5 mm/min to 8 m/min (0.2"/min to 26 ft/min). Contactless electronic control of travel reversal. Ballscrew on cross slide for angle, groove and form grinding. Automatic central lubrication.
- Automatic grinding wheel feed with IC stepping motor control, stop device on finish size and two dial-in switches for feed value to be pre-selected from 0 – 99 microns (or .0 – .00495"). Microinching operation. Quick motion for vertical adjustment.
- Precision grinding spindle with pressured lubrication. Hydraulically operated grinding wheel dressing device. DIAFORM base on standard head.

### Upon request:

- From 1150 to 3300 r.p.m. infinitely variable grinding spindle drive with automatic peripheral speed compensation. Digital readout measuring devices on cross and vertical slides. Hydraulic saddle clamp. Hand traverse to table. Automatic compensation of grinding wheel wear when dressing. Jump feed on cross slide. Micrometer adjustment for cross slide. **Automatic working cycle with microprocessor control.** Pre-Selection of table creep feed rate. Universal head. CNC head-mounted dressing unit, etc.

### Technical data:

Usable grinding area	500 × 200 mm (19.7" × 7.9")
Max. slide travel	530 × 220 mm (20.8" × 8.7")
Table working surface	600 × 200 mm (23.6" × 7.9")
Distance between table and spindle center	412 mm (16.2")
Grinding wheel	250 × 32 × 76,2 mm (9.8" × 1.25" × 3")
Motor	4.0 kW 2700 r.p.m.
Flatness over whole table	below 2 μm (.00008")
Squareness of column ways to table	3 μm (.00012")
Max. breakdown at edge of workpiece	0,3 μm (.000012")

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