



MAR 200 Hydraulic internal grinding machine of high precision

The MAR 200 was designed according to new principles; it is a very practical, high-precision and highly efficient internal grinding machine of sturdy construction. Three versions are available:

Standard

for general tool manufacture and single workpiece machining.

Automatic

for grinding operations in series, with fully automatic working cycle and single button operation. Up to 5 grinding wheel dressing possibilities in one cycle. Extremely short resetting times.

Features of the machine:

- Workpiece headstock with electronic infinitely variable speed adjustment from 150—1500 r.p.m. The spindle is mounted in preloaded needle bearings, thus achieving roundness accuracy within one μm .
- Cross slide of workpiece headstock with roller guide-ways guaranteeing an absolutely regular automatic feed of 1—10 μm (.00005"—.0005") with stop device on finish size. Swing base up to 90° with reading accuracy of 12 seconds.
- Grinding wheel head on fully supported table. Hydraulic grinding oscillations infinitely adjustable from 0—8 m/min (0—26 feet/min). Automatic compensation of grinding wheel wear when dressing. In-direct sizing through diamond positioning. Diamond tip is set on finish size.

Upon request:

- Workpiece headstock PE-2 on centerless principle.
- Face grinding equipment on workpiece headstock.
- Mechanical or hydraulic quick-action clamping devices.
- High frequency and air turbine spindles up to 120 000 r.p.m.
- Automatic loading and unloading device.
- External grinding equipment.
- Copying device for drawing dies.

Technical data:

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|-------------------|--------------------|
| Grinding travel | 3—200 mm (1/8"—8") |
| Grinding diameter | 1—80 mm (.040"—3") |
| Height of centres | 132 mm (5.200") |

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