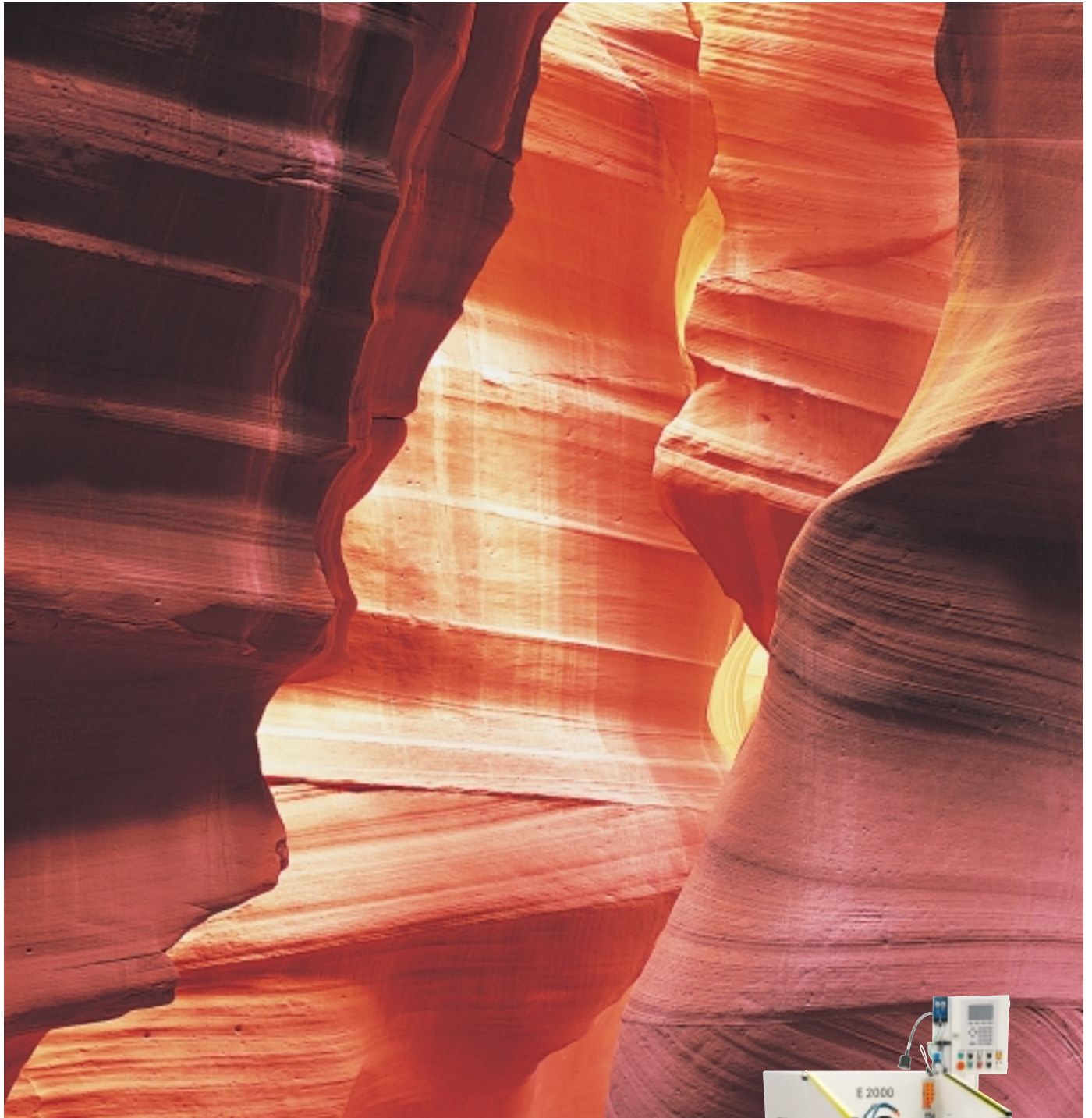


The Challenge of Diversity



E 2000

E 2000 – Standard horizontal honing machine for medium to large number batch quantities



Versatile, productive, intelligent

The E 2000 is suited for component machining to size, shape and surface. Enables efficient and economical honing of gearwheels, hydraulic and pneumatic components, as well as many other workpieces with diameters of 1.14 to 120 mm and max. honing lengths of 3 mm to 220 mm.

Because the filter and lubrication unit has been integrated into the machine bed, the E2000 couples maximum productivity with minimum machine size.

Innovative technology combined with optimal working processes

The fine machining of medium and large batch quantities in particular depends on the perfect interplay of all components involved in the honing process, namely honing tool, cutter, feeding and measuring system. The standard version of the E 2000 therefore already offers the key features. The consistent, user-friendly design and open view onto the work area protected by light barriers are equally important to the concept as the fully-programmable controller.

This E 2000 is designed to produce swiftly, dynamically and effectively:

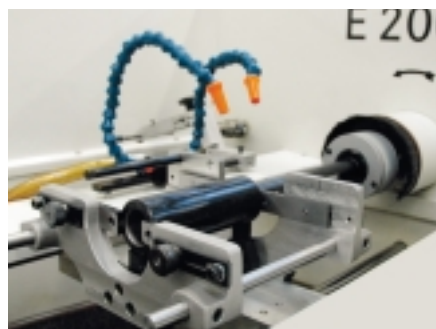
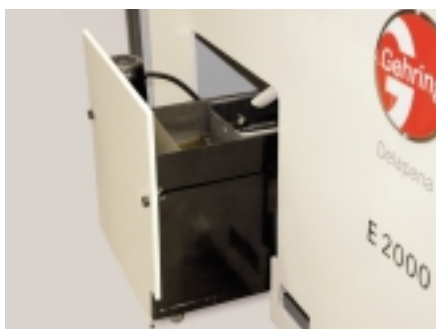
- Flexible jig and tool system for the quickest production changeover.
- Optimal stock removal accelerates the machining process.



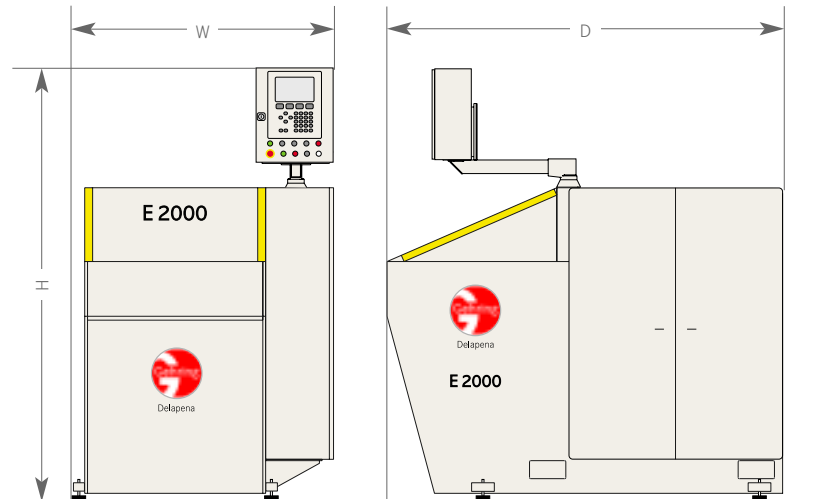
Everything under control, right from the start

Required process parameters input via clearly arranged menu control. This enables the user to save up to 100 tool records and up to 100 workpiece programs.

Teach-in function for quick setting of stroke points and automatic saving of axle positions to the controller. Over-ride function for quick change of database parameters, even during honing operation. Enables even short stroking for blind bores.



Technical data



The controller monitors stone wearing and features automatic tool wearing compensation to ensure maximum machining quality.

Consistently oriented to the user

Wide range of options available for individual tooling of the E 2000:

- Designed as twin-spindle machine for multistage honing processes
- Various clamping devices
- Chiller unit for maintaining oil temperature
- Coolant unit with paper tape filter, magnetic separator and 100 to 200 litre honing oil capacity, depending on requirement
- Automatic loading and unloading systems
- Pneumatic post-process measuring unit for correcting finished size and cylinder format through automatic stroke adjustment using “Cylindromatic” feedback control.

Electrical equipment	
CE conformity	yes
Motor protection category	IP54
Standard electrical supply	380 - 420 V, 3 phase, 50 HZ
Control voltage	24 VDC
Feeding system	
Gehring EMZ	yes
Feed	programmable
Feed speed	programmable
Feed force [N]	programmable to 1000
Wedge retraction	programmable
Wedge retraction speed	programmable
Capacity and stroke	
Diameter range [mm]	1.14 to 120
Stroking length [mm]	infinitely variable from 3 to 320
Stroking motor [m/min]	infinitely variable from 1 to 25
Stroking motor [kW]	2.2
Stroking movement	precision recirculation ball screw
Short stroking	length and frequency fully programmable
Spindle drive	
Spindle speed [rpm]	infinitely variable from 150 to 3500
Spindle motor [kW]	3
Braking	DC electronic induction braking
Weight	
Net weight [kg]	720
Gross weight [kg]	1000
Machine size	
Width W [mm]	1230
Depth D [mm]	1920
Height H [mm]	1760
Packaging dimensions for road freight	
Width [mm]	1400
Depth [mm]	2180
Height [mm]	1980

The benefit to you: Optimal output rates
with zero-error quality



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