

HELITRONIC RAPID

THE NEW ENTRY-LEVEL MACHINE FOR TOOLS
WITH SMALL AND MEDIUM DIAMETERS



HELITRONIC RAPID

APPLICATION

- Grinding rotationally symmetrical tools for a variety of industrial sectors
- For production and/or regrinding
- Fully automated, complete machining in a single clamping cycle
- Materials include HSS, carbide, cermet, ceramic

MACHINE

- Low vibration, solid grey cast iron, gantry type construction
- X, Y, Z linear axes with ball-type linear drive
- Rotary axis A with worm drive or optional torque motor
- Rotary axis C with worm drive
- Glass scales (option)
- Belt-driven spindle with two HSK spindle ends for up to six grinding wheels
- 24" full HD multitouch display
- FANUC, the global standard for control equipment
- Top-loader (Option)
- Numerous efficiency options

SOFTWARE

- C.O.R.E. OS operating system
- HELITRONIC TOOL STUDIO, CAD/CAM software for design, programming, simulation and production
- Numerous software options to extend performance and increase efficiency
- Walter Window Mode (optional)

« The HELITRONIC RAPID is the new entry-level machine for the small to medium tool range - ideal for resharpeners and manufacturers »

SIEGFRIED HEGELE, HEAD OF STRATEGIC PRODUCT MANAGEMENT

YOUR BENEFIT

Produce and resharpen rotationally symmetrical tools in a single clamping cycle, even with complex geometries. A selected range of options and a variety of efficiency options allow the machine to be easily configured to suit current and future applications.





FURTHER DETAILS

EFFICIENT AND EASY TO USE

The HELITRONIC RAPID is ideal for the production and resharpening of rotationally symmetrical tools in a single clamping operation, frequent job changes, medium tool variance and small to medium batch sizes. With a diameter range of 1 to 16 mm for production and 3 to 100 mm for resharpening, a machining length of up to 255 mm (depending on the application) and a unit weight of up to 30 kg, the HELITRONIC RAPID is the efficient machine for standard applications.

Example tools (from top left to bottom right):

Fitting hole drills, thread milling tools, dowel hole drills, step drills, carbide reamers, carbide twist drills, medical drills, medical deep drills, rotary milling cutters, micro milling cutters



TECHNICAL DATA, DIMENSIONS

MECHANICAL AXES

| | |
|------------------------------|---------------|
| X axis | 320 mm |
| Y-axis | 200 mm |
| Z-axis | 470 mm |
| Rapid traverse speed X, Y, Z | max. 15 m/min |
| C axis | ± 200° |
| A-axis | ∞ |
| Linear resolution | 0.0001 mm |
| Radial resolution | 0.0001° |

GRINDING SPINDLE DRIVE

| | |
|------------------------------|----------------|
| Max. grinding wheel diameter | 150 mm |
| Grinding spindle speed | 0 – 10,500 rpm |

HELITRONIC RAPID with belt-driven spindle (standard)

| | |
|------------------|--------|
| Spindle ends | 2 |
| Tool holder | HSK 50 |
| Peak power | 9 kW |
| Spindle Diameter | 80 mm |

OTHERS

| | |
|----------------------------------|------------------|
| Machine weight | approx. 3,300 kg |
| Power consumption at 400 V/50 Hz | approx. 25 kVA |

TOOL DATA ¹⁾

| | |
|--|--------|
| Min. tool diameter | 1 mm |
| Max. tool diameter | 100 mm |
| Max. workpiece length, peripheral grinding ²⁾ | 255 mm |
| Max. workpiece length, end face grinding ²⁾ | 185 mm |
| Max. workpiece weight | 30 kg |

OPTIONS

Coolant system

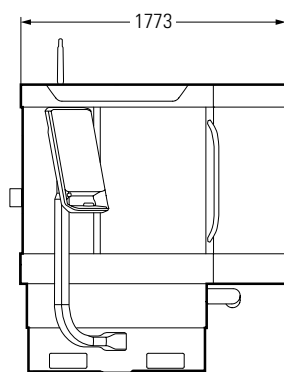
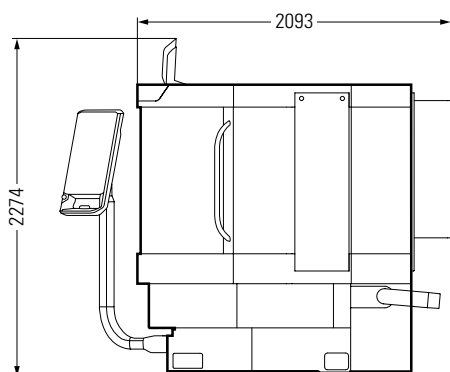
On request – several types are possible

Loading systems

Top loader (option)

Others

Torque motor A-axis 1,000 min-1; manual tool support; Walter Window Mode software; automatic, electrical measurement of the machine reference, etc.



HELITRONIC RAPID

Dimensions in mm. Options, accessories or open doors can increase the dimensions of the machine. Subject to modifications due to technical progress and errors. No guarantee is provided for this information.

¹⁾ The maximum tool dimensions depend on the tool type and geometry as well as the type of machining.
²⁾ From theoretical taper diameter of the workpiece holder.

WE ARE HERE FOR YOU!

Our products are designed to meet customer demands for as long as possible, they are intended to operate efficiently, reliably, and be available at any time.

From “Start up” through to “Retrofit” – our Customer Care is there for you throughout the working life of your machine. For this reason, you can rely on competent HelpLines worldwide and Service Engineers near you:

- We will provide you with fast, straight-forward support.
- We will help to increase your productivity.
- We work professionally, reliably and transparently.
- We will provide a professional solution to your problems.



Start up
Commissioning
Extension of the guarantee



Qualification
Training
Product support



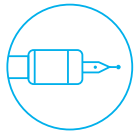
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Rebuild
Machine overhauling
Refurbishing of assemblies



Retrofit
Conversions
Retrofitting parts

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CUSTOMER CARE





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