



abm

Grinding Technologies

HELIOS 5X

CNC Tool Grinding Machine

5-Axes CNC Control



www.abmgrinding.com

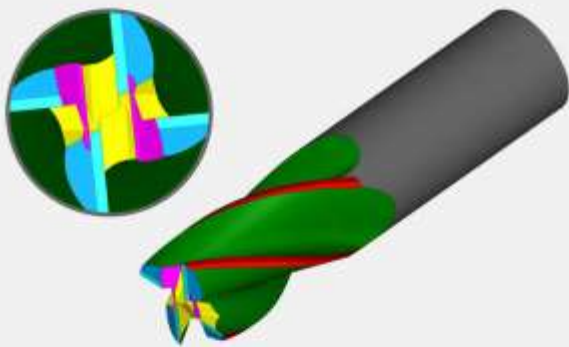
HELIOS 5X

HELIOS 5X is ideal for various type of tools from regrinding to production. It's best performance and productivity range is for tools up to $\varnothing 300\text{mm}$.

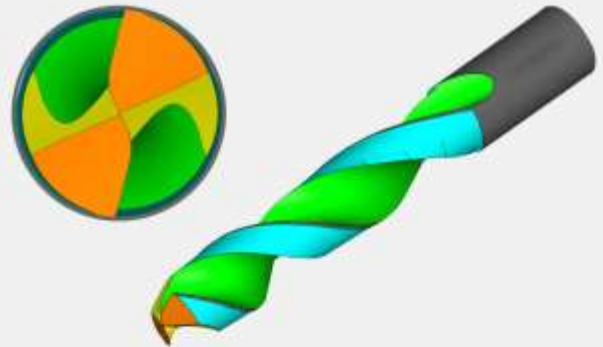
The HMI machine interface contains several features to make an operator programming easier. These include a 21,5" touch screen, adjustable panel positions, handwheel for easier set-up and an easy to access dividing head & working area.

Every design on the machine; from the positioning of the grinding wheels available on separate two spindles, to the BECKHOFF absolute motors, have been developed to enhance accuracy, increase productivity and make an efficient operation.

Basic Tool Studio includes the software package of endmills, while 3D simulation, drills, profile tools, burrs, routers, reamers and many other special applications are supplied optionally.



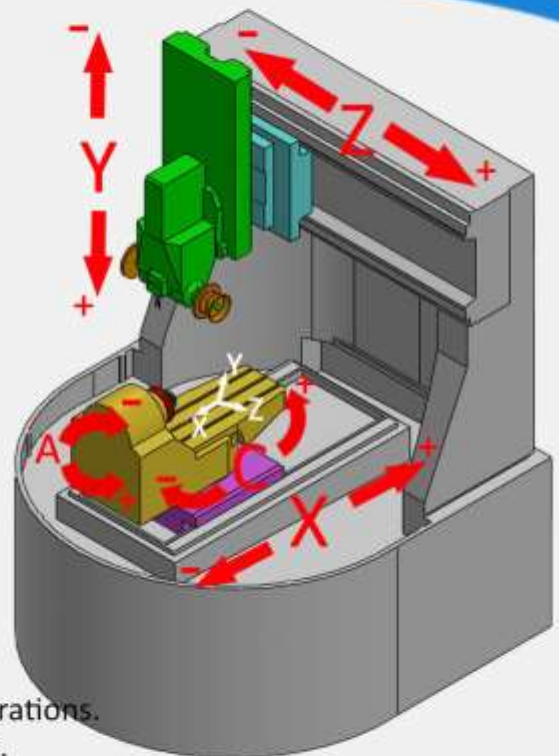
Endmills Program



Drills Program

TECHNICAL SPECIFICATIONS

- Tool diameter $\varnothing 3$ to 300 mm
- Grinding cycle with coolant grinding oil.
- Tool holder HSK-A63
- Grinding wheel bore diameter 20mm
- Grinding wheel diameter max. 250mm
- Grinding wheel motor speed from 10.000 rpm.
- Servo motors with screws and precision guides.
- X-axis travel 375 mm
- Y-axis travel 250 mm
- Z-axis travel 600mm
- C-axis travel $\pm 200^\circ$
- A axis ∞
- 21,5" LED touch screen with industrial PC.
- Internal light
- Ergonomic cabin construction for tool loading/unloading operations.
- Electronic probe for tool detection and automatic positioning.
- Oil-tight casing cabin according to CE standards
- Weight 5000 kg
- Dimensions 1700x2700x2600 mm



HELIOS 5X

Think Sharp

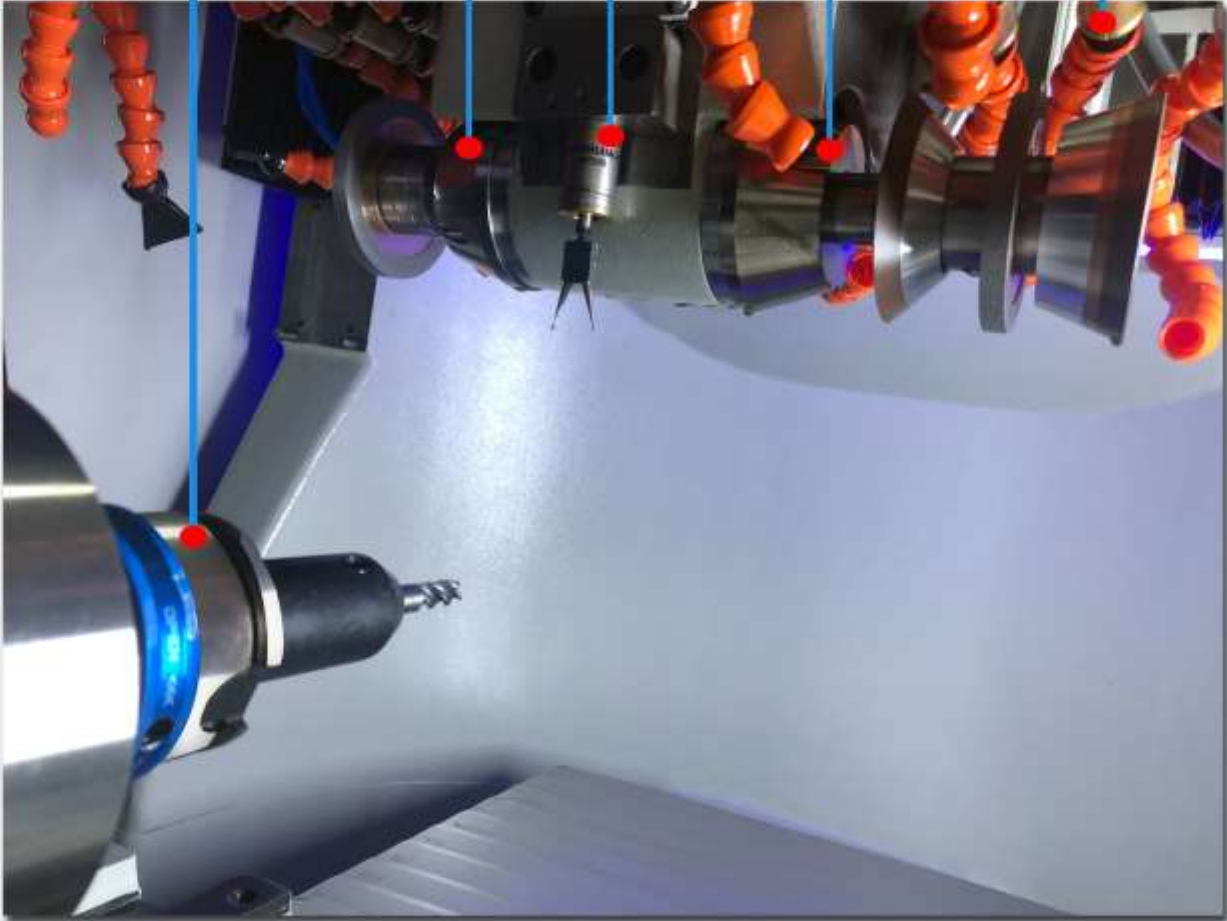
Dividing Head

Spindle 2

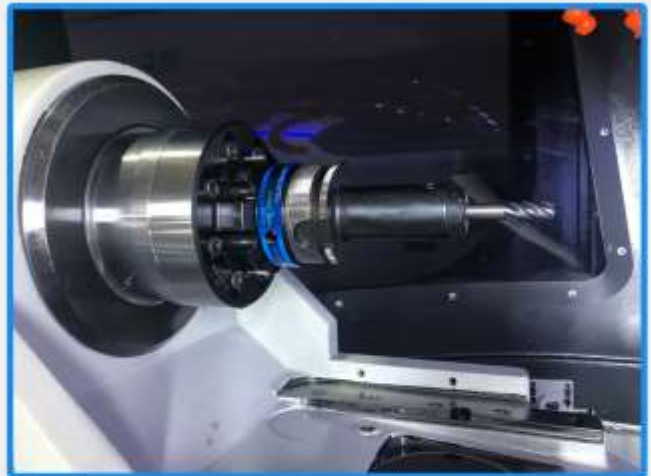
Probe

Spindle 1

Coolant System



RENISHAW Probe Measuring Unit



HSK - A63 Tool Holder



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