



# abm

Grinding Technologies

## HELIOS 5X

CNC Tool Grinding Machine

5-Axes CNC Control



[www.abmgrinding.com](http://www.abmgrinding.com)

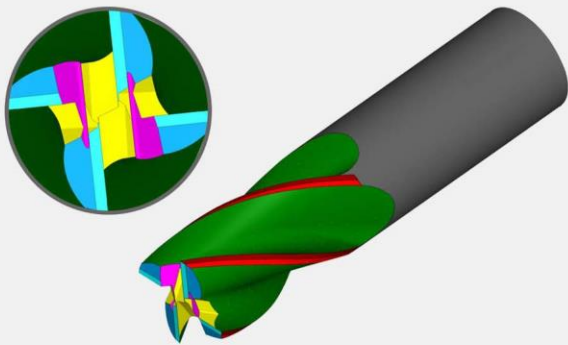
# HELIOS 5X

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  $\varnothing 300\text{mm}$ .

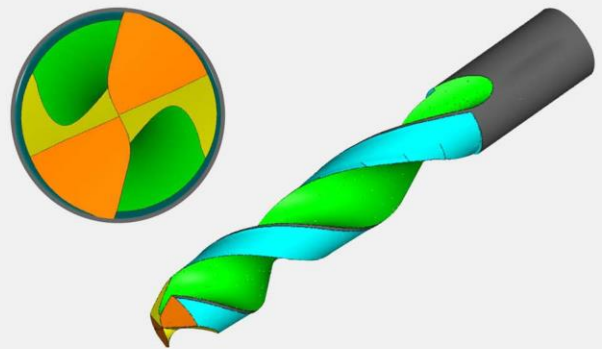
The HMI machine interface contains several features to make an operator programming easier. These include a 21,5" touch screen, adjustable panel positions, handwheel for easier set-up and an easy to access dividing head & working area.

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.



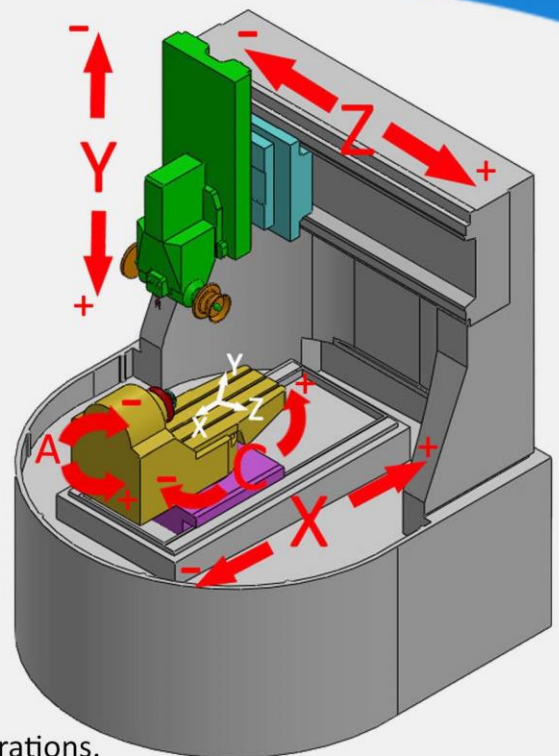
Endmills Program



Drills Program

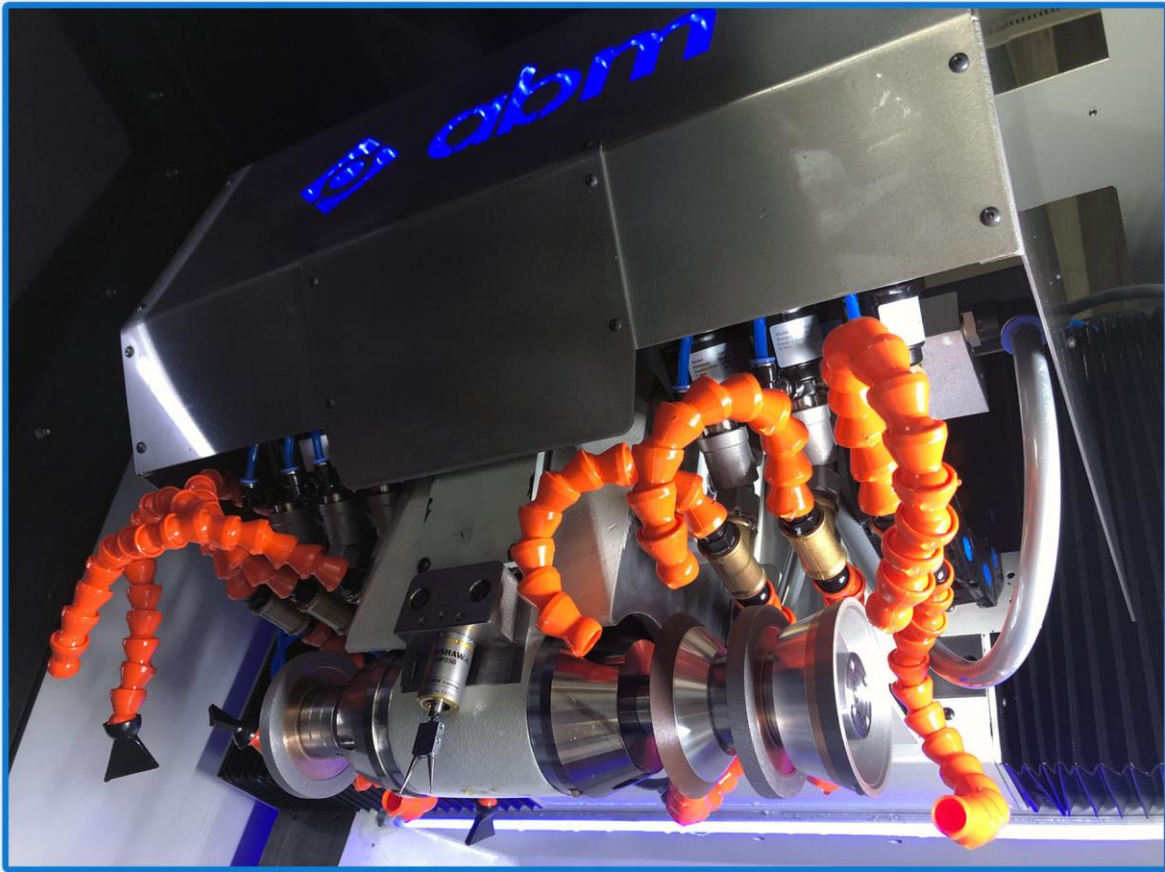
## TECHNICAL SPECIFICATIONS

- Tool diameter  $\varnothing 3$  to 300 mm
- Grinding cycle with coolant grinding oil.
- Resolution 0.005mm
- Tool holder HSK-A63
- Grinding wheel bore diameter 20mm
- Grinding wheel diameter max. 250mm
- Grinding wheel servo spindle motor speed from 10.000 rpm.
- Servo motors with screws and precision guides.
- X-axis travel 650 mm
- Y-axis travel 350 mm
- Z-axis travel 700mm
- C-axis travel  $\pm 200^\circ$
- A axis  $\infty$
- 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

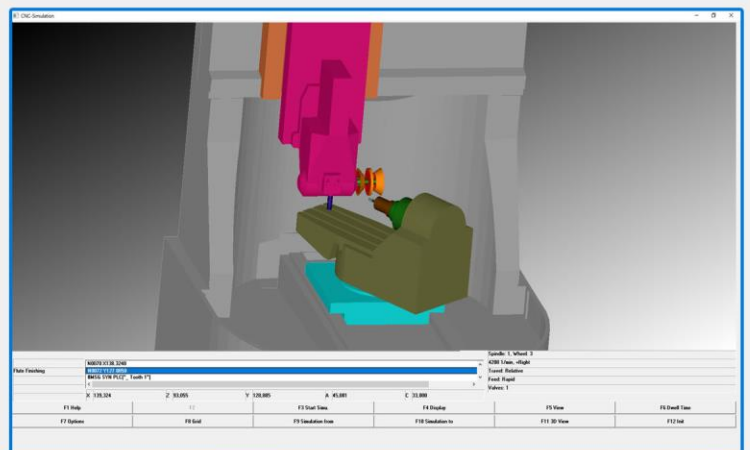




# Think Sharp



21,5" LED touch screen with PC



3D Simulation Software

# HELIOS 5X

*Think Sharp*

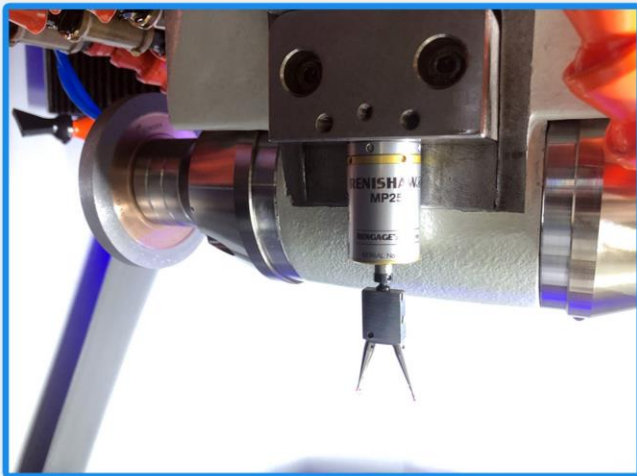
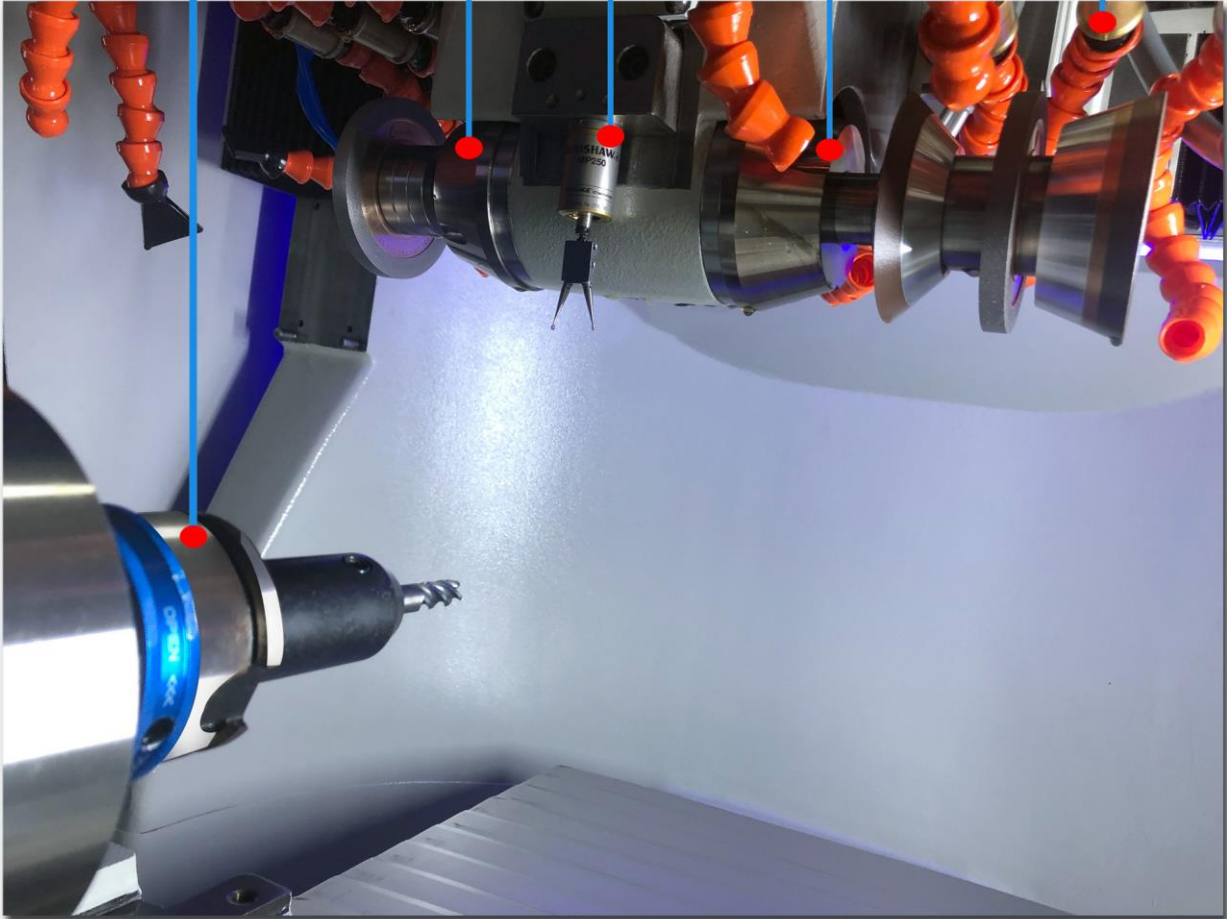
Dividing Head

Spindle 2

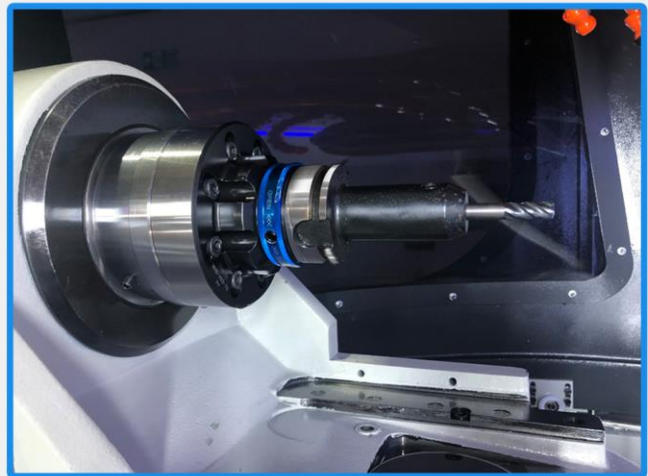
Probe

Spindle 1

Coolant System



RENISHAW Probe Measuring Unit



HSK - A63 Tool Holder



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