

CNC Grinding Center Model UW I F

Fully Automatic Grinding Wheel Changer and Tool Loader

SAACKE-Precision in a Compact Form





Most modern technology

For Economical Grinding

- Flexible grinding through the use of a fully automatic grinding wheel changer
- Highest precision grinding, resulting from the grinding wheel(s) being located closely to mechanical centerline of the spindle head/gearbox
- Integrated pick-up loader or chain loader (optional)
- Digital, vibration-free, variable speed controlled spindle motor
- Vibration-free grinding due to a rigid machine base

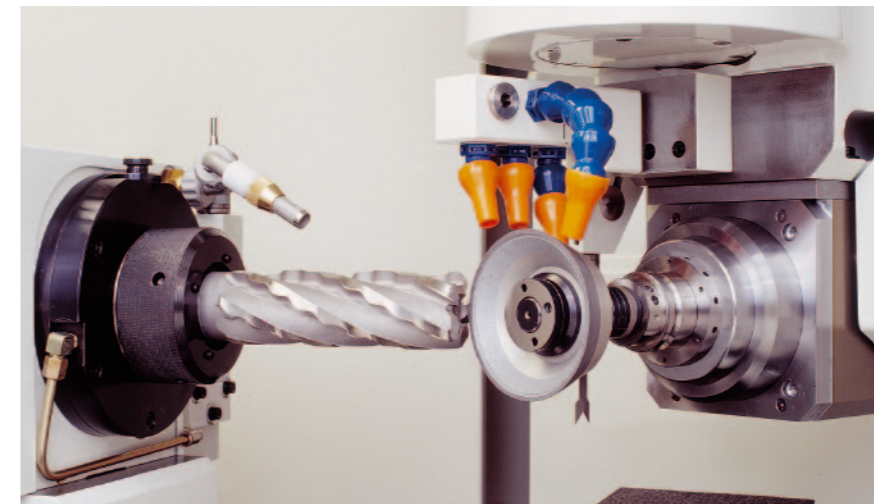


Pick-Up Loading System

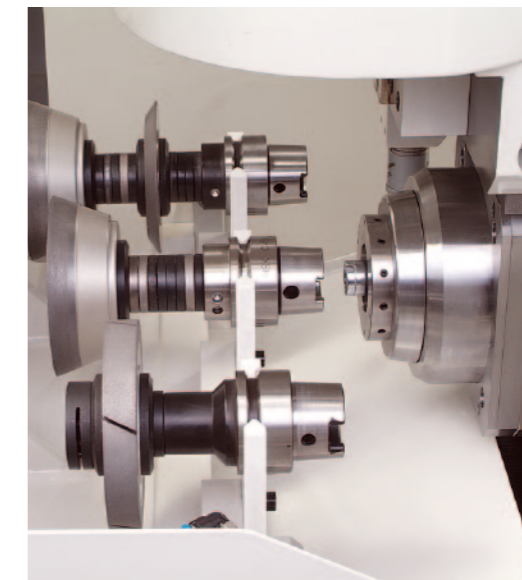
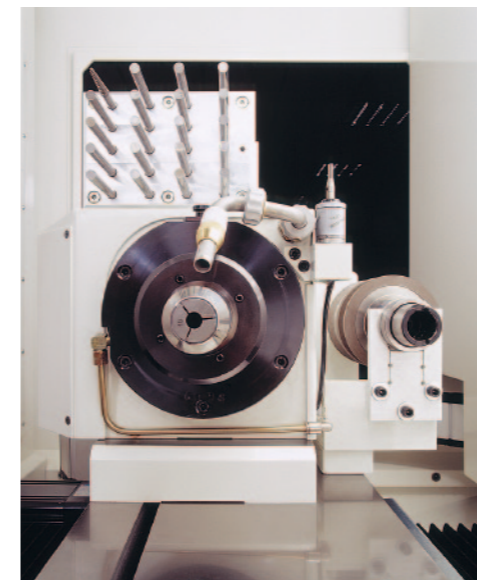
Capacity:

- 3.0 to 5.0 mm shank diameter 40 tools
- 5.1 to 8.0 mm shank diameter 32 tools
- 8.1 to 11.0 mm shank diameter 28 tools
- 11.1 to 14.0 mm shank diameter 24 tools
- 14.1 to 20.0 mm shank diameter 20 tools

Optimized kinematics attributed to a rotating grinding wheel



The spindle motor is water cooled and direct-drive (belt-free)



Automatic changing of the grinding wheels via HSK spindle adapters



Industry Leader with a High Degree of Automation

Chain-driven loader – Capacity 160 tools

- including the tool loading device
- installed within the grinding enclosure
- for production and regrinding

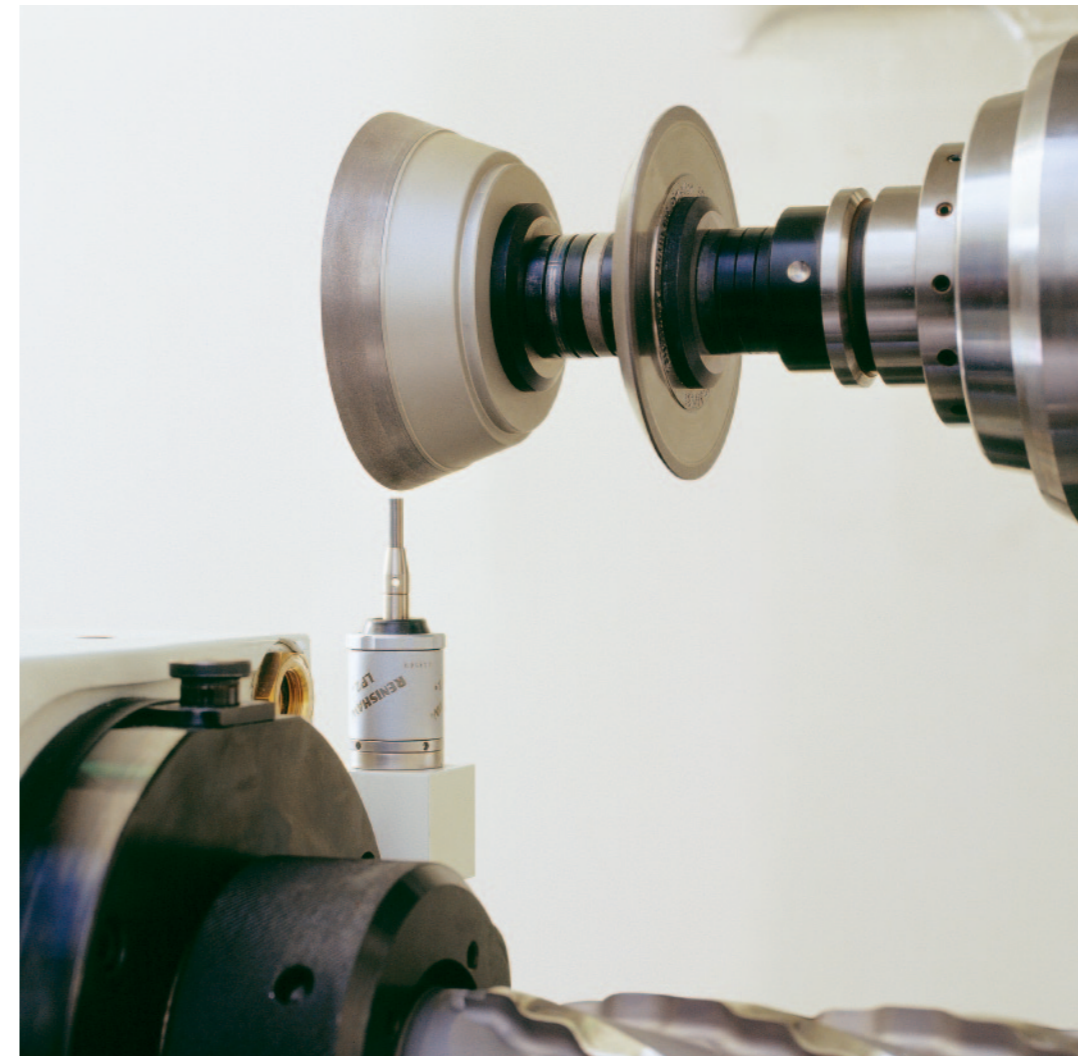
Automatic collet changeover simplifies a “chaotic” arrangement of tool types and diameters.



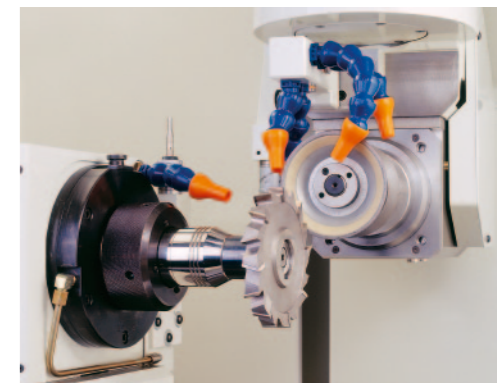
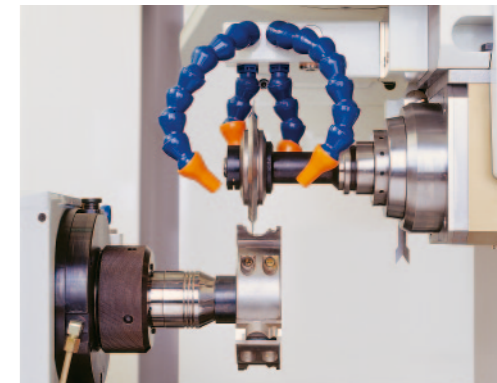
Exact Measuring and Positioning

To The Point

- Exact orientation of the tools via 3D-measuring probe
- Automatic measurement of grinding wheels (ie. diameter, flange length, grinding wheel angle and wheel width)
- Digital drives assure the highest dynamic control in all axes
- Table-mounted steady rest and tailstock



Workhead A-axis with direct drive up to 1,000 rpm for cylindrical grinding applications



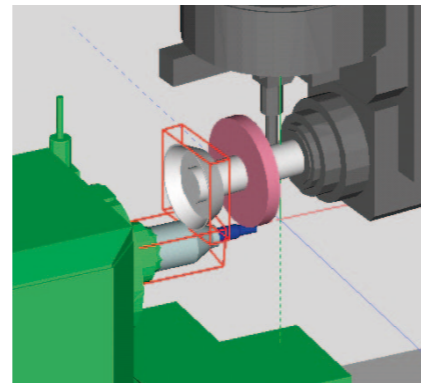


Greatest Variety with Highest Precision

Technical Data

NUMROTOplus® Software

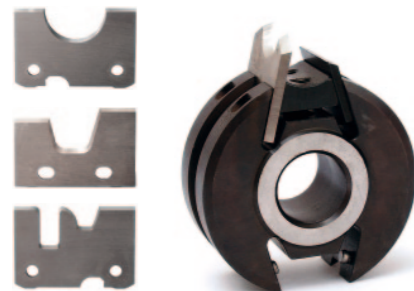
- The flexible and multifunctional NUMROTOplus® Software is perfect to program special tools in a short amount of time
- An exceptional variety of programs with a built-in database for tools, technology and grinding wheel packages
- Straightforward and easy to install Software updates are available over the complete machine life
- 3D collision monitoring and machine simulation
- The software is compatible with a commercially available and standard PC; from your local PC supplier



Cylindrical and Tapered Cutters



Profile – Form Cutters



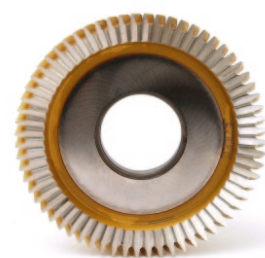
Tools for the woodworking Industry



Drills and Step Drills



Deep-hole Drills



Shaper Cutters



Disc type Milling Cutters



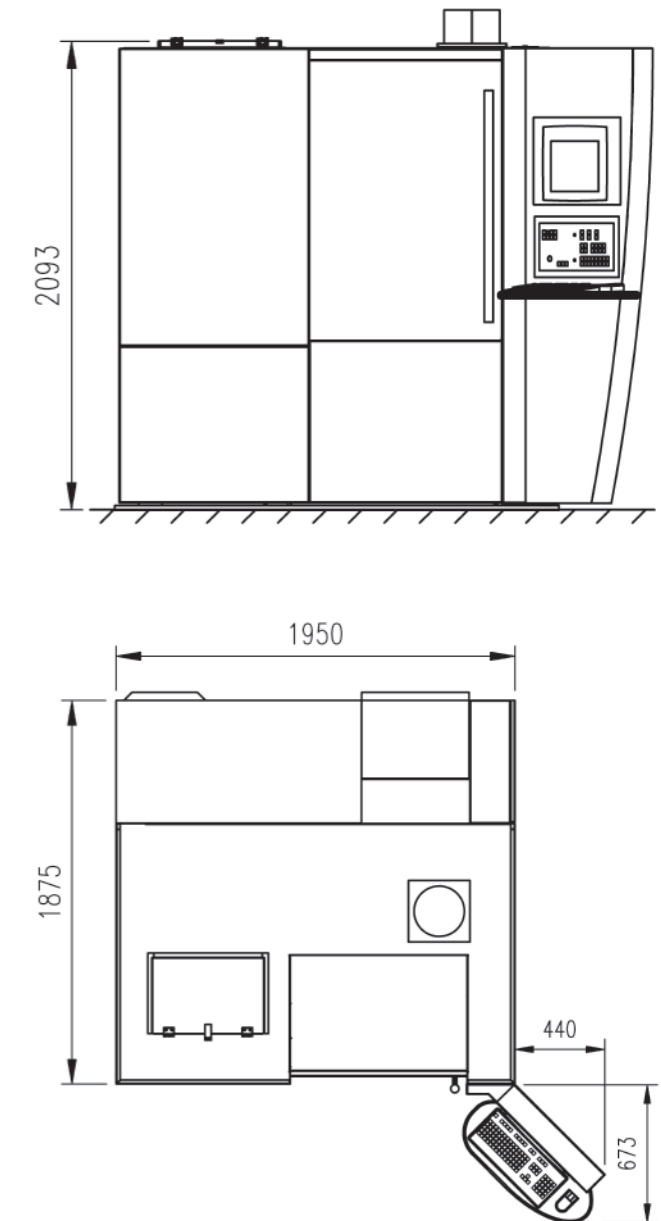
Burrs



Taps

Tool data	
Max. diameter	200 mm
Max. grind length during the complete grinding, measured at the front face of the work head	270 mm (optional 360 mm)
Longitudinal X-axis	
Travel range	530 mm
Feed rate	0 – 15 m/min
Useful table area for tailstock and steady rest	245 x 140 mm
Cross slide Z-axis	
Travel range	320 mm
Feed rate	0 – 15 m/min
Vertical travel Y-axis	
Travel range	400 mm
Feed rate	0 – 15 m/min
Grinding wheel head B-axis	
Swivel angle in horizontal plane	240 deg.
Grinding wheel arbor with rapid clamping	HSK-C / E50
Grinding spindle speed is infinitely variable	2.000 – 12.000 rpm (optional 20.000 rpm)
Max. Grinding wheel diameter	150 mm
Grinding wheel changer	
Number of magazine stations	2 (optional 4)
Work head A-axis with direct drive	
Work head spindle taper	Plane face (ISO 50)
Indexing accuracy	+/- 15"
Max. rpm of work head spindle	600 rpm (optional 1.000 rpm)
Drive output rating	
Grinding motor, peak capacity	5 kW (optional 16 or 26 kW)
Longitudinal path drive motor X-axis	2 kW
Work head drive motor A-axis	3 kW
Cross travel drive motor Z-axis	2 kW
Vertical travel drive motor Y-axis	3 kW
Grinding head B-axis	2 kW
Weight approx.	3.500 kg

Subject to technical change.
Descriptions and pictures contain optional accessories.





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