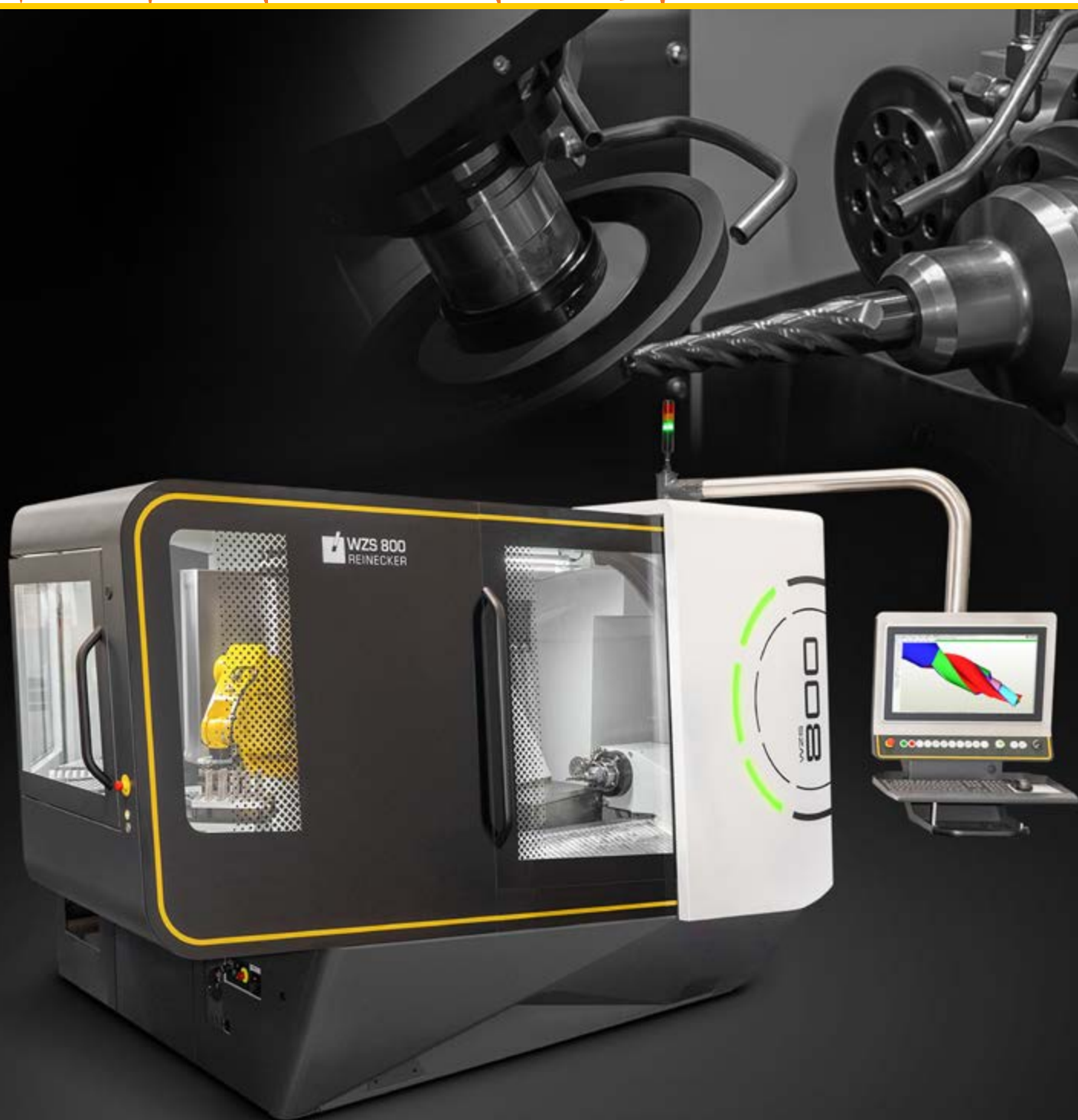


Tool Grinding Machine

ULMER
WERKZEUGSCHLEIFTECHNIK

WZS 800 REINECKER

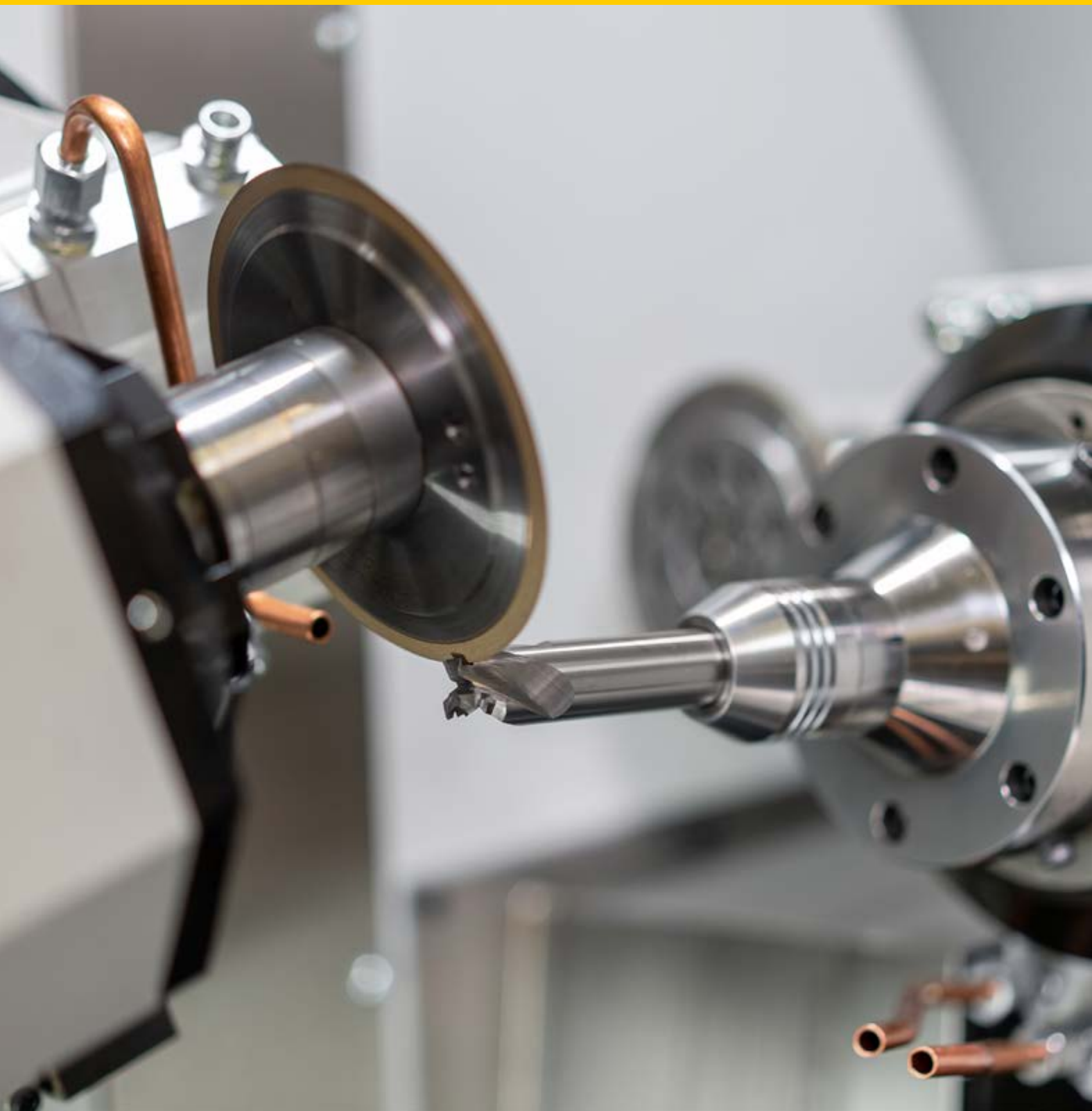
Discipline: Marathon



WZS 800 REINECKER

For maximum endurance

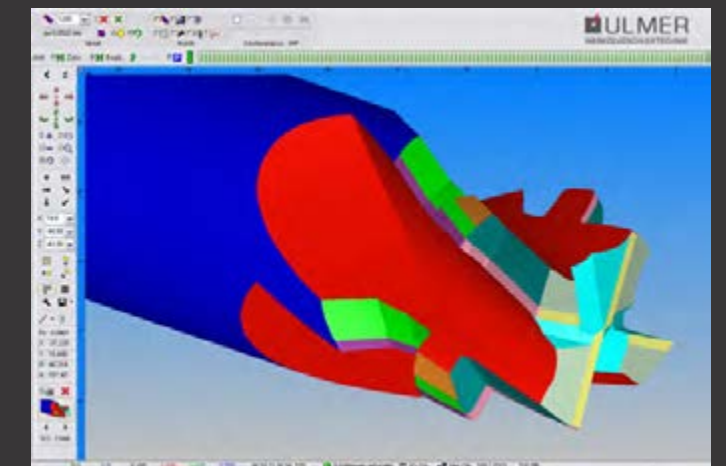
Performance and high degree of automation ensure the efficient production of large-sized batches of precision tools made of tungsten carbide and HSS.



Good to know

- **Reliable results:** Polymer concrete machine base for optimum vibration damping, excellent rigidity, thermal stability, and efficient swarf removal flow.
- **Maximum precision:** Measuring systems with high resolution close to the grinding point. Optional linear drives.
- **High power density:** Grinding spindle and rotary axes with liquid-cooled direct drives.
- **Long autonomy periods:** 14-station grinding wheel magazine and automatic loader.
- **Ergonomics for maintenance and service:** Easy, fast maintenance and repair due to good accessibility to service-relevant areas.
- **Customized solutions:** A large number of further option modules allow the implementation of different requirements.
- **Innovative design:** Integrated operating status light with long-distance effect in the front area for quick recognition of operating statuses.
- **Up-to-date security:** Operating mode selector switch with RFID-coded recognition of users and their authorization, as well as integrated NUM-Safe safety architecture.
- **User-friendly operation:** Height-adjustable control panel with 24" multi-touch screen and NUMROTOplus® programming system with 3D simulation and collision detection.
- **NUM Flexium+:** CNC control with powerful NUM DriveX drives.

NUMROTOplus®
Programming system
with 3D-capability



WZS 800 REINECKER

Application & Equipment

Dynamic and precision in connection with automation solutions form a compact unit of state of the art production.



Steady Rest

Support of long workpieces during grinding.



Clamping Force Block

Integrated shank machining, such as Weldon clamping surface or coolant grooves.



Dressing Spindle

Process integrated grinding wheel dressing, optionally with acoustic emission sensor.



Workpiece Clamping

A variety of customary clamping systems are available.

Tail Stock

Different versions allow the clamping between centers.



Additional Probe, swiveling

Measuring grinding wheels in the machine.



Coolant Manifold

Automatic compensation of the coolant nozzles for dressable wheels.

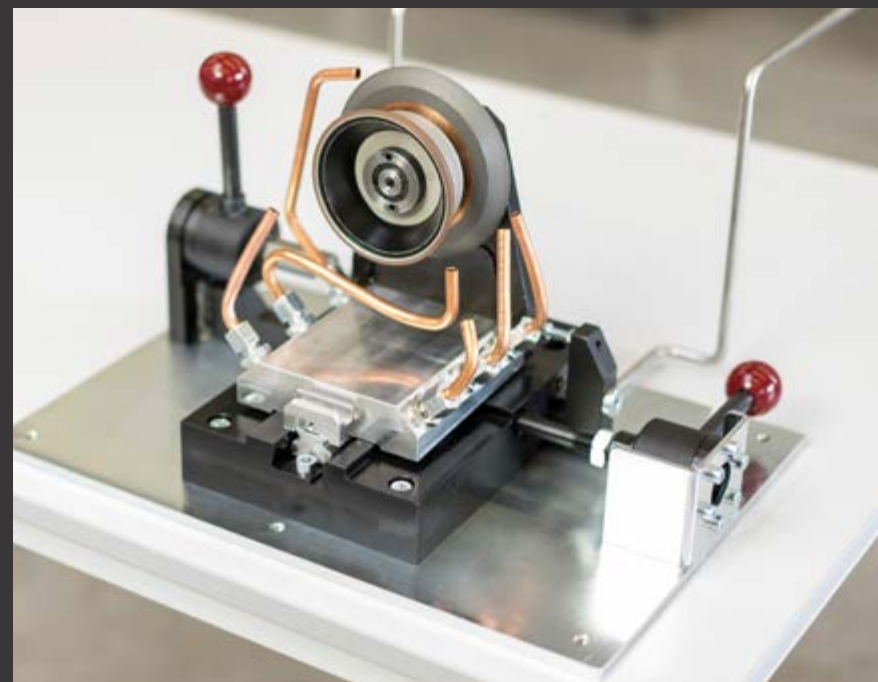
WZS 800 REINECKER Automation Solutions

More about
integrated
processes:



Mounting Device

Fixture for ergonomic maintenance
and preparation of the wheel packs.



Robot Automation (optional)

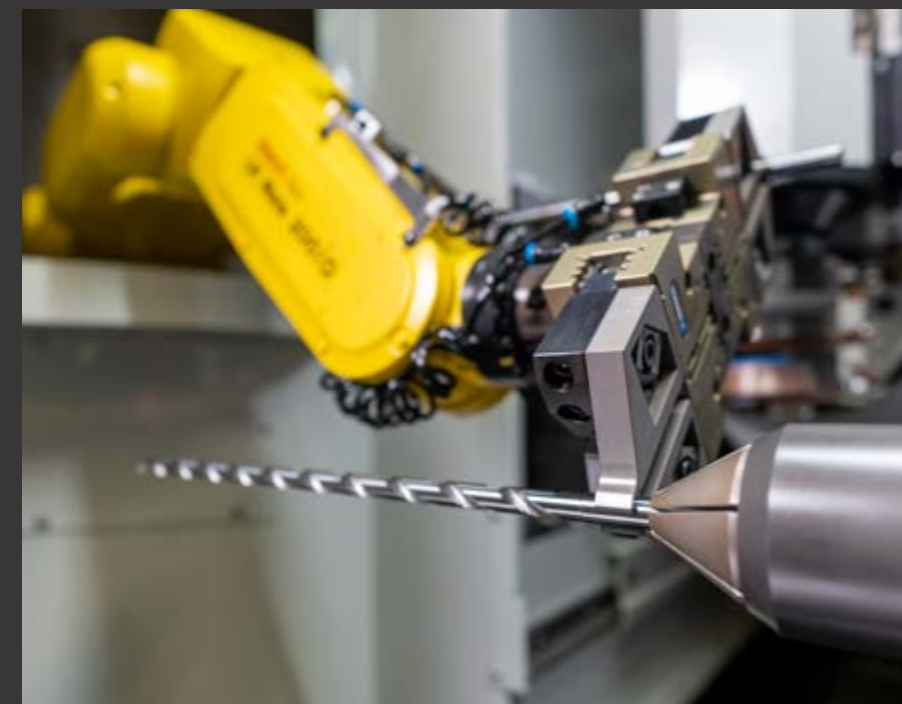
High capacity and fast changeover times
guarantee long autonomy periods and
the processing of large batch sizes.

Capacity (example):

Loading device with up to 6 pallets

Shank diameter 6 mm [0.23"] → 1,920 pieces

Shank diameter 20 mm [0.8"] → 360 pieces



WZS 800 REINECKER

Technical Details

EN 09 | 23

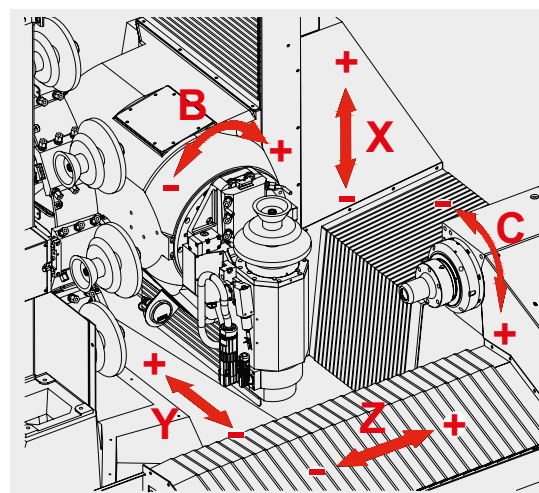
Performance Data WZS 800

Travels of axes	X-axis	350 mm [14"]
	Y-axis	590 mm [23"]
	Z-axis	700 mm [27.5"]
	B-axis	-180° / +90°
	C-axis	n x 360°
Resolution	X, Y, Z-axis	0.0001 mm [4 millionths"]
	B, C-axis	0.0001°
Axis drives	X, Y, Z-axis	5 kN
	B-axis	350 Nm
	C-axis	60 Nm
	Rapid travel speeds X/Y/Z	15 / 30 / 30 m/min
Grinding spindle	Motorized spindle	Ø 170 x 408 mm [6.7 x 16.1"]
	Nominal Power	22 kW [30 hp]
	Peak power	33 kW [44 hp]
	Speed infinitely	up to 9,000 (12,000) rpm
	Torque const.	35 Nm up to 6,000 rpm
	Grinding wheel Ø max. (Option)	203 (250) mm [8 (9.8)"]
	Internal taper	HSK 50E
Workpiece spindle	Internal taper	ISO-50
	Speed max.	up to 2,000 rpm
	Torque max.	60 Nm
Machine	Total connected load	25 kVA
	Supply voltage/Frequency	400 V-50/60 Hz
	Dimensions W x L x H	3,000 x 2,400 x 2,200 mm [118" x 94.5" x 86.5"]
	Weight	approx. 6.7 t [15,000 lbs.]

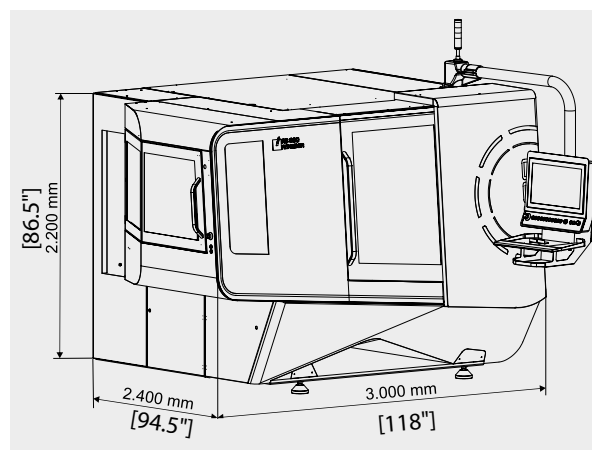
Workpiece Dimensions (measuring from taper zero line ISO 50)

Manual loading	Ø max.	200 mm [8"]
	Length max.	600 mm [23.6"]
	Weight max.	20 kg [44 lbs.]
Workpiece automation	Ø max.	32 mm [1.25"]
	Length max.	450 mm [17.7"]
	Weight max.	2.5 kg [5.5 lbs.]

Kinematic



Dimensions [in mm + inch]



Ulmer Werkzeugschleiftechnik GmbH & Co.KG

August-Nagel-Str. 9
89079 Ulm-Eisingen, Germany
Phone +49(0)7305/171-324
Fax +49(0)7305/171-328
info@werkzeugschleifen.de
www.werkzeugschleifen.de



ULMER
WERKZEUGSCHLEIFTECHNIK