

Cylindrical Grinding Machine

 **ULMER**
WERKZEUGSCHLEIFTECHNIK

RS 50 REINECKER

Discipline: Sprint



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Quick to equip and fast over the finish line

Economical production of variable profiles on cylindrical tool blanks made of tungsten carbide and HSS.

Grinding unit

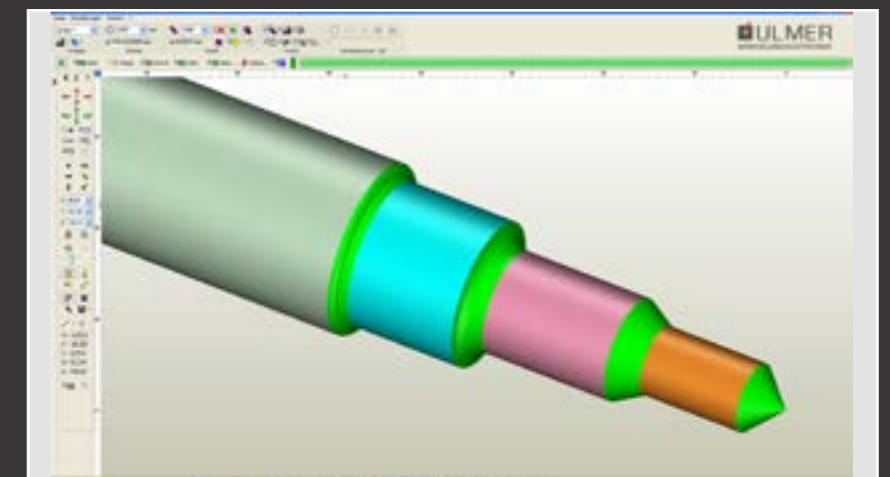
Swivelling (+10°/ +90°)



NUMROTOplus®
Programming system
with 3D-capability.

Good to know

- **Individual geometries:** Manufacture of cylinder and cone surfaces in combination with tips, chamfers, radii and steps.
- **Reliable results:** High precision contours via peel grinding.
- **High powered grinding:** Swiveling grinding unit for roughing and finishing of the highest quality in one setup.
- **Low setup effort:** Two different grinding wheels can be mounted on one holder.
- **Process-optimized systems:** Optional automatic loading device for small batch machining.
- **Ergonomics for maintenance and service:** Easy, fast maintenance and repair due to good accessibility to service-relevant areas.
- **NUM Flexium+:** CNC control with powerful NUM DriveX drives.



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Application & Equipment

Separate cycles for rough and fine machining with simple grinding wheel-shapes combine high process-performance and safe quality.



Rough-machining

High process-performance.



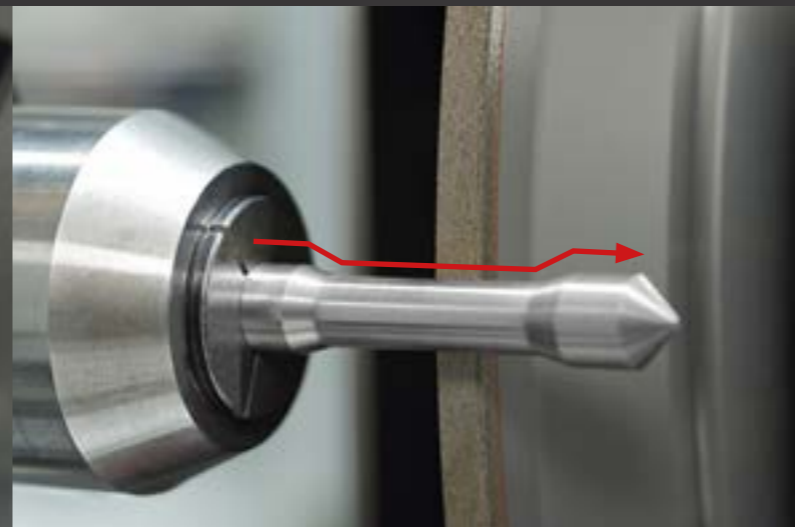
Fine-machining

Safe quality.



Contour / Peelgrinding

Precise machining of slender workpieces with less cutting force due to small contact zone.



Steady Rest (optional)

Reliable support during grinding.



Swivelling Grinding Unit

Back taper 3°, front taper 10°.



Measuring Unit

In-process measuring system with automatic compensation.



Dressing

Grinding wheel dressing right inside the machine, simple and precise.



Easy setup with simple grinding wheel-shapes:

- Manufacturing of numerous product-specific geometries.
- Quick changeover from rough to fine machining.
- Convenient conditioning of the grinding wheels.

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Individual capacities and fast changeover times guarantee optimized processing of single piece and small batches.

Automation Solutions



Manual Loading

Easy set-up and workpiece changeover outside of the workspace.



Automatic loading

Reliable changeover of workpieces.



Loading device with up to four pallets.

Capacity (example): Shank diameter 10 mm [0.4"] → 450 pieces.



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Technical Details

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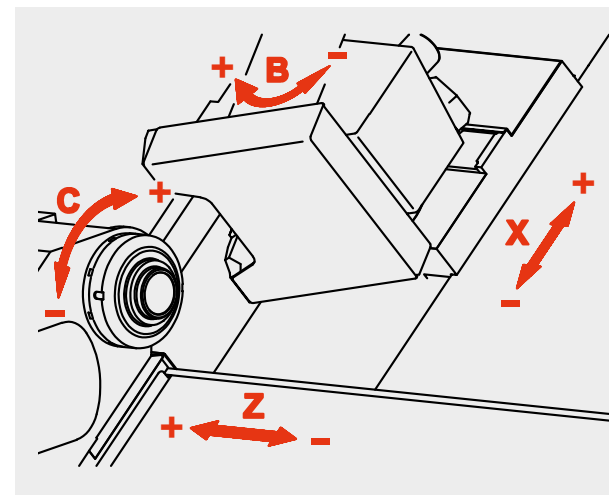
Performance Data RS 50

Travels of axes	X-axis	220 mm [8.7"]
	Z-axis	900 mm [35.4"]
	B-axis (optional)	+10° / +90°
Resolution	X-axis	0.0001 mm [4 millionths"]
	Z-axis	0.0001 mm [4 millionths"]
	C-axis	0.001°
Axis drives	X-axis	2.4 kN
	Z-axis	2.4 kN
	Rapid travel speeds X / Z	30 / 30 / m/min
Grinding spindle	Motorized spindle	Ø 170 x 370 mm [6.7 x 14.6"]
	Nominal Power	11 kW [15 hp]
	Peak Power	14 kW [19 hp]
	Speed infinitely	500 to 7,500 rpm
	Torque const.	27 Nm up to 5,000 rpm
	Grinding wheel Ø max.	350 mm [13.8"]
Workpiece spindle	Cutting Speed	<140 m/s
	Internal taper	REINECKER Standard
	Speed max.	3,000 rpm
	Torque max.	22 Nm
Machine	Total connected load	25 kVA
	Supply voltage / frequency	400 V- 50/60 Hz
	Dimensions W x L x H	2,420 x 2,130 x 1,800 mm [95.3 x 83.9 x 70.9"]
	Weight	approx. 5.5 t [12,200 lbs]

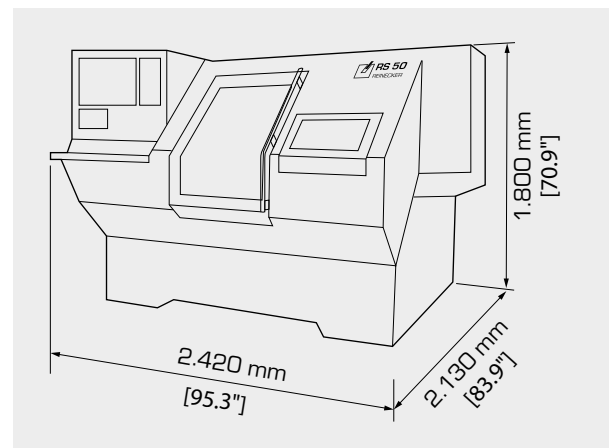
Workpiece Dimensions

Manual loading	Ø max.	50 mm [2"]
	Length max.	460 mm [18.1"]
	Weight max.	20 kg [5.5 lbs.]
Workpiece automation (robot)	Ø max.	32 mm [1.25"]
	Length max.	460 mm [18.1"]
	Weight max.	2.5 kg [5.5 lbs.]

Kinematic



Dimensions [in mm + inch]



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