

Tool Grinding Machine

ULMER
WERKZEUGSCHLEIFTECHNIK

WZS 70 REINECKER

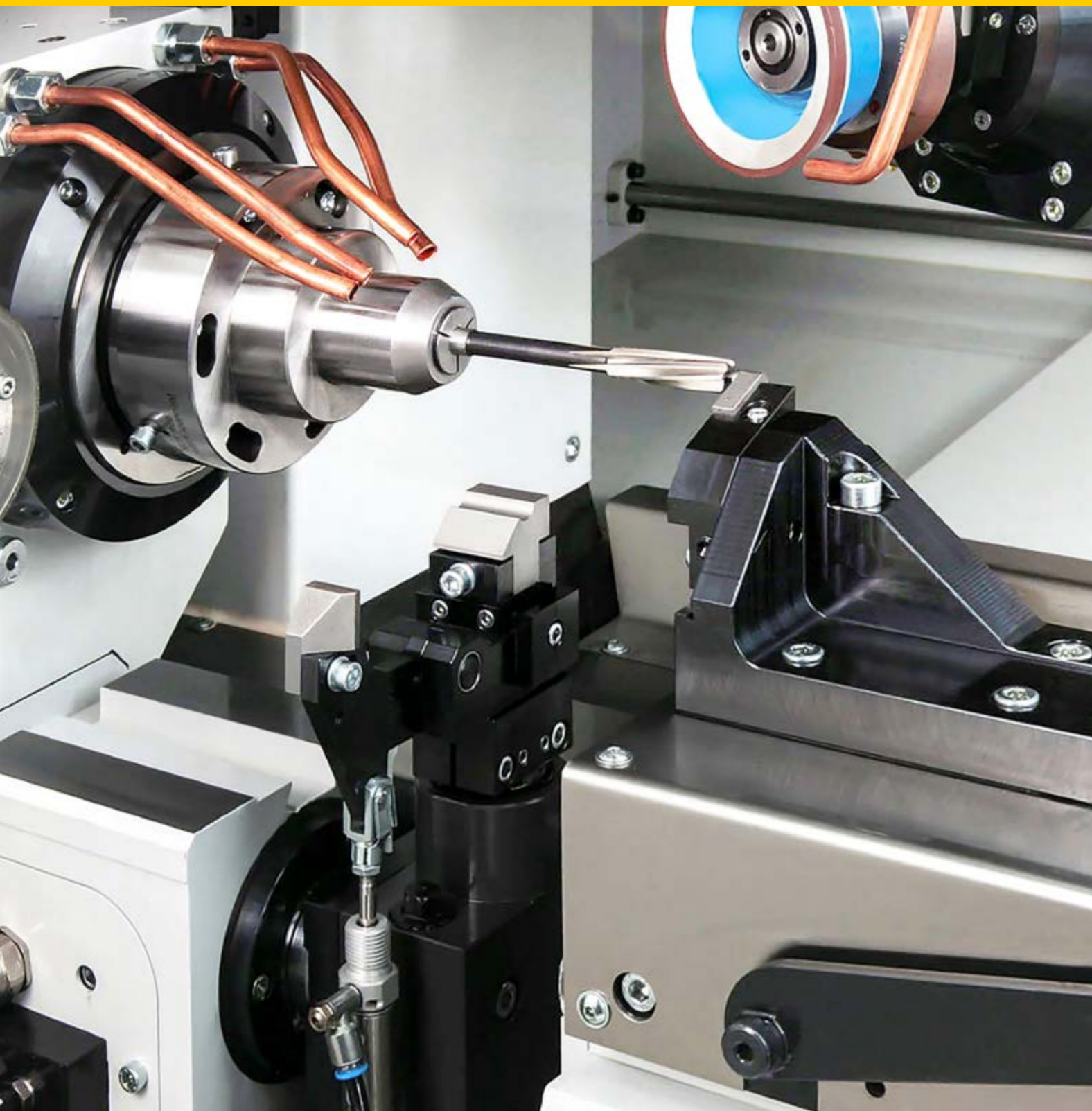
Discipline: Decathlon



WZS 70 REINECKER

Multitalent in many disciplines

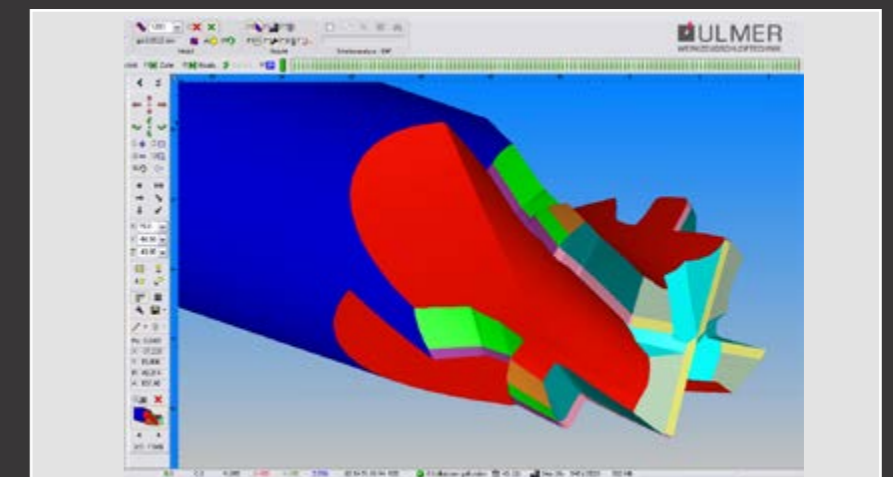
A variety of available options offer individual solutions for the production of contemporary precision tools made of carbide and HSS.



Good to know

- **Compact machine:** Large workspace at small machine dimensions.
- **Short set-up times:** Precise interface for different workpiece clamping systems.
- **Maximum precision:** High resolution glass scales in all 5 axes (direct measuring systems).
- **High Performance:** Direct drive systems (liquid cooled) for grinding spindle and rotating axes.
- **Optimized processes:** Optional linear drives and 12-station grinding wheel magazin.
- **Ergonomics for maintenance and service:** Easy, fast maintenance and repair due to good accessibility to service-relevant areas.
- **Individual solutions:** A wide range of additional options offer the realization of different requirements.
- **NUM Flexium+:** CNC control with powerful NUM DriveX drives.

NUMROTOplus®
Programming system
with 3D graphics



WZS 70 REINECKER

Application & Equipment

Our "decathlete" covers a wide range of possible applications. The production of complex tool geometries and variable batch sizes.



Additional axis with steady rest and downholder

Stabilization of long workpieces due to following support during grinding process.



Automatic Wheel Changer

- Quick changeover of grinding wheel package.
- Wheel package and coolant manifold in one unit ensure effective coolant supply.
- Choice of
 - 6-station for diameter max. 203 mm [8"]
 - 8-station for diameter max. 153 mm [6"]
 - 12-station for diameter max. 203 mm [8"]



Second Probe

Progress integrated measuring of grinding wheels in the machine.



Tail Stock

Different versions allow the clamping between centers.



Workpiece Clamping

Different industry standard clamping systems are available.



Tailstock attachment for heavy workpieces

Optional C-axis with max. 100 Nm torque to handle workpieces >15 kg.



WZS 70 REINECKER Automation Solutions

More about
automation:



Pick-up Automation

Easy set-up and reliable changing of the workpieces also in hydraulic expansion chuck.

Robot Automation

High capacity and fast changeover times provide efficient processing of large batch sizes.



Capacity (example):
Loading device with up to 4 pallets
Shank diameter 10 mm [0.4"] → 450 pieces
Loading device with up to 16 pallets
Shank diameter 10 mm [0.4"] → 2.250 pieces

Capacity (example):
Loading Device with up to three pallets.
Shank diameter 10 mm → 300 pieces.

Workpiece Pallets

Separation of workpiece pallets from workspace allows for anytime quality inspection.



WZS 70 REINECKER

Technical Details

EN 09 | 23

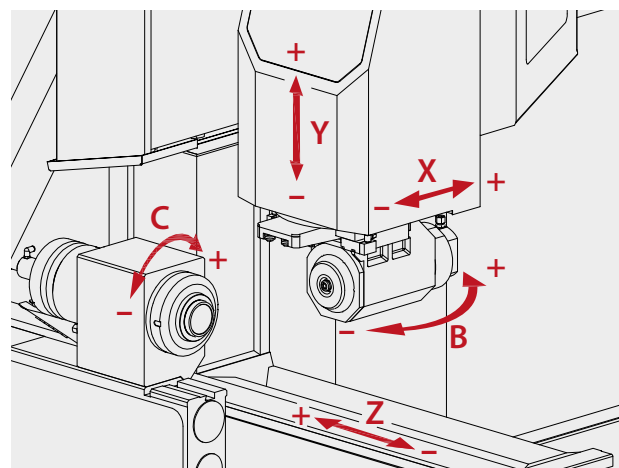
Performance Data WZS 70

Travels of axes	X-axis	740 mm [29.1"]
	Y-axis	250 mm [9.8"]
	Z-axis	740 mm [29.1"]
	B-axis	-180 / +210°
	C-axis	n x 360°
Resolution	X, Y, Z-axis	0,0001 mm
	B, C-axis	0,0001°
Axis drives	X, Y, Z-axis	2,4 kN
	B-axis	315 Nm
	Rapid travel speeds X / Y / Z	30 / 30 / 30 m/min
Grinding spindle	Motorized spindle	Ø 150 x 300 mm [5.9 x 11.8"]
	Nominal Power	10 kW [14 hp]
	Peak power	26 kW [35 hp]
	Speed infinitely (Option)	up to 9,000 rpm (12,000 rpm)
	Torque const.	24 Nm up to 6,000 rpm
	Grinding wheel Ø max.	203 mm [8"]
Workpiece spindle	Internal taper	HSK 50E
	Internal taper	ISO-50
	Speed standard (optional)	1,200 (2,000) rpm
	Torque max. (optional)	60 Nm (100 Nm)
Machine	Total connected load	15 kVA
	Supply voltage / Frequency	400 V - 50/60 Hz
	Machine (basic) W x L x H	2,120 x 2,680 x 2,420 mm [83.5 x 105.5 x 95.3 "]
	with add. robot W x L x H	3,130 x 2,680 x 2,420 mm [123.2 x 105.5 x 95.3 "]
	Weight	[13,200 lbs.]

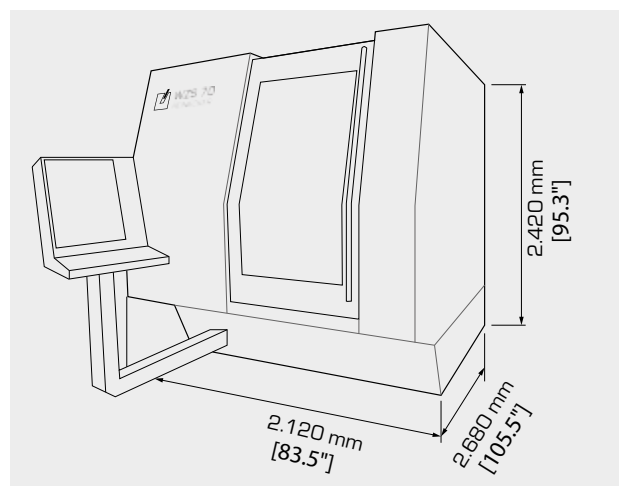
Workpiece Dimensions (measuring from taper zero line ISO 50)

Manual loading	Ø max.	270 mm [10.6"]
	Length max.	570 mm [22.4"]
	Weight max.	20 kg [44 lbs.]
Workpiece automation (robot)	Ø max.	32 mm [1.26"]
	Length max.	450 mm [17.7"]
	Weight max.	2.5 kg [5.5 lbs.]
Workpiece automation (Pick up)	Ø max.	25 mm [0.98"]
	Length max.	200 mm [7.9"]
	Weight max.	1.5 kg [3.3 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