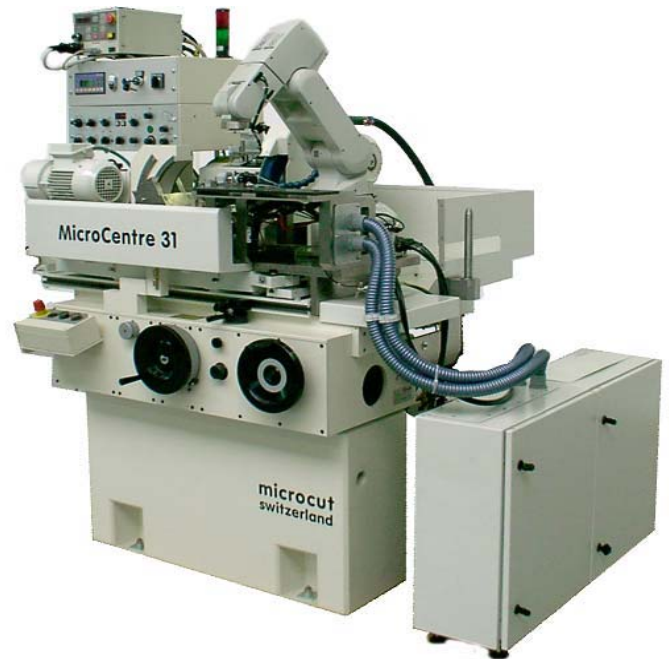


# MicroCentre 31

Automatic outer diameter and concentricity grinding machine for tungsten carbide and PCD glasscutter



## Short information:

- Automatic tungsten carbide and PCD outer diameter and concentricity glasscutter grinding machine for OD
- 2 – 6mm glasscutter
- OD tolerance  $\pm 0.005$  mm, depending on workpiece
- Concentricity  $< 0.005$  mm, depending on workpiece geometry
- Cutter angle range 115 – 150°
- Grinding texture adjustment 45 – 90°
- Automatic loading/unloading with 6 axis robot system, approx. 2-3 min. cycle time for compl. OD grinding process on tungsten carbide cutters



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## Technical data

Machine:	MicroCentre 31; automatic outer diameter and concentricity grinding machine for tungsten carbide and PCD glasscutter
Loader:	High precision automatic loading/unloading, by 6 axis robot system into two workpiece cassettes with 400 – 600 workpiece capacity depending on OD of glasscutter
Range of OD:	2 – 6 mm glasscutter
Workpiece-Materials:	Tungsten carbide, PCD
Achievable surface finish:	as per request
OD tolerance:	<+/- 0.005 mm
Concentricity:	< 0.005 mm, depending on ID tolerance
Cutting edge run out:	< 0.005 mm, depending on workpiece parallelism and ID tolerance
Cycle times:	for tungsten carbide, e.g. OD 2.5 mm approx. 2-3 min. total processing time for PCD, e.g. OD 2.5 mm approx. 15-30 min. depending on required stock removal
Speed for grinding tooling:	1600 rpm
Electrical requirements:	3x400 VAC, 50/60 Hz (or customer demand)
Power consumption	5 kVA
Air requirements:	5.5 bar (80 psi)
Dimensions ( W x D x H):	1700 x 1480 x 2000 mm (60 x 58 x 60")
Weight :	2000 kg