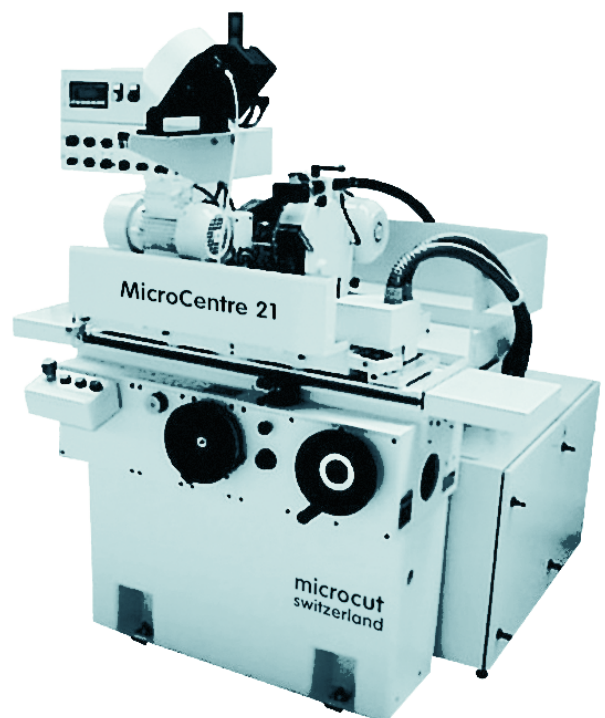


Automatic outer diameter and concentricity grinding machine for ferrules processing

MicroCentre 21



Short information:

- Automatic loading/unloading
- OD tolerance ± 0.002 mm
- Concentricity < 0.001 mm
- Cycle time 15–30 seconds, depending on stock removal, surface roughness, etc.
- Surface finish Ra approx. 0.2 microns



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Technical data

Machine:	MicroCentre 21; automatic outer diameter and concentricity grinding machine for ferrules processing, including loading and unloading system
Material that can be processed:	Ceramics, zirconia, sapphire, ruby, carbide, HSS steel
Possible processes:	OD grinding for optimization of concentricity to the ID of the ferrule
Range of applications:	<ul style="list-style-type: none">• Fibre-optic connectors/ferrules• Carbide/ceramic parts• Medical applications
Max. diameter to be processed:	Approx. 1–4 mm (~2.5/1.25 standard, other dimensions on demand)
OD tolerance:	< $\pm 2 \mu\text{m}$ (in temperature-controlled room)
Concentricity:	< $1 \mu\text{m}$ (in temperature-controlled room)
Typical cycle time:	Ferrule concentric grinding 25 s (depending on the conditions of the workpiece, stock removal, surface quality, etc.)
Speed of ferrule spindle:	Stepless drive 1: 30–300 rpm Stepless drive 2: 120–1200 rpm
Speed of grinding tooling:	1600 rpm
Electrical requirements:	3 × 400 V AC, 50/60 Hz
Power consumption:	5 kVA
Compressed air requirements:	5.5 bar (80 psi)
Dimensions (W × D × H):	1500 × 1480 × 1500 mm (60 × 58 × 60")
Weight:	1800 kg