

M. + M. MAI GMBH
PRÄZISIONS-RUNDSCHLEIFMASCHINEN



TB 1000U
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Highest flexibility and
very simple operating

- fast automatic swiveling of the wheelhead combined with highly accurate positioning and repeatability
- very short setup and changeovers

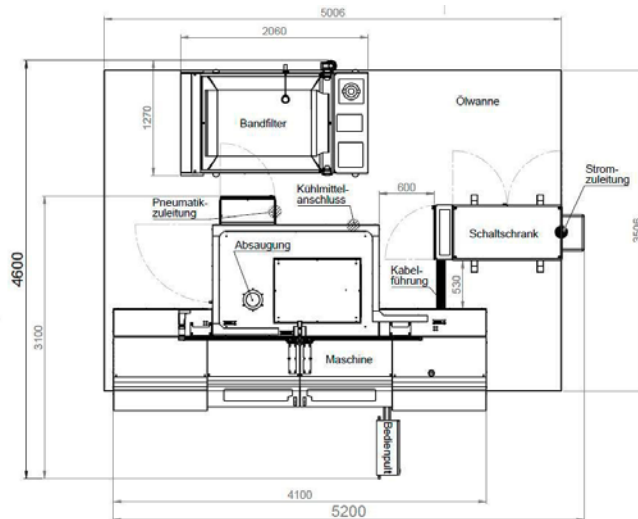
GRINDING-ALLROUNDER WITH LITTLE SPACE REQUIREMENT

TB 1000U — Compact universal cylindrical grinding machine for high-precision external, surface and internal grinding in a single setup

THE ONE FOR MANY CASES

With its robust design and innovative technology, the TB 1000U guarantees first-class grinding results with minimal space requirements. Whether small series or individual parts - the TB 1000U impresses with its flexibility, ease of use and unbeatable reliability. Perfect for companies that strive for the highest quality and efficiency in production.

DIMENSIONS



Machine

- Extremely stiff main units
- Fully automatic swiveling wheelhead
- Latest axis drive design
- Electrical cabinet and coolant system can be set up freely
- High-precision serration
- Excellent accessibility ensures easy maintenance

Control

- Language-independent multi-axis control
- Powerful and user-friendly
- Many available grinding and dressing cycles

TECHNICAL DATA

Main data	
Distance between centres	1000 mm
Centre height standard (optional)	175 (250) mm
Grinding length	1000 mm
Grindable workpiece diameter	
Max. with new disc standard	348 mm
Min. with used disc	1 mm
Max. workpiece weight between centres	120 kg
Max. load during fly grinding	95 Nm
Grinding headstock	
Grinding disc diameter	L: 500 mm / R: 300 mm
Engine performance	7,5 kW
Grinding wheel circumferential speed	L: 45 m/s / R: 27 m/s
Division B-axis	1°
Adjustment path X-axis	340 mm
Max. speed X-axis	8000 mm/min.
Input fineness X-axis	0,001 mm
Resolution X-axis	0,0001 mm

Workpiece headstock	
Recording cone	MK6 / MT6
Pivoting range	+30° / -45°
Speed range	20 - 1000 min-1
Tailstock	
Recording cone	MK4 / MT4
Quill path	50 mm
Longitudinal slide	
Adjustment path Z-axis	1400 mm
Max. speed Z-axis	8000 mm/min.
Input fineness Z-axis	0,001 mm
Resolution Z- axis	0,0001 mm
Max. pivoting workpiece table	+/- 9°
General data	
Total electrical connection value	19 kW
Weight with electrical cabinet	ca. 7.600 kg
Length x depth x height in mm	4410 x 3150 x 2350