



M. + M. MAI GMBH  
PRÄZISIONS-RUNDSCHLEIFMASCHINEN



With  
**FANUC  
CNC 0i-TF Plus  
CONTROL  
SYSTEM**

# CYLINDRICAL GRINDING GIANT IN A COMPACT DESIGN

CNC cylindrical grinding machine for high-precision external grinding

# NUMBERS THAT SPEAK FOR THEMSELVES

	TB400	TB600	TB1000	TB1000U
<b>Main Data</b>				
Distance between centres in mm	430	650	1000	1000
Centre height standard (optional) in mm	100 (opt. 150)	100 (opt. 150)	175 (opt. 250)	175 (opt. 250)
Grinding length in mm	400	650	1000	1000
<b>Grindable workpiece diameter</b>				
Max. workpiece diameter with full wheel standard (optional) in mm	198 (opt. 298)	198 (opt. 298)	348	348
Min. workpiece diameter with worn wheel in mm	1	1	1	1
Max. workpiece weight between centres (optional) in kg	100	100	120	120
Max. load for grinding without tailstock (optional) in Nm	80	80	95	95
<b>Grinding wheelhead</b>				
Grinding wheel diameter in mm	400 / 500 / 600	400 / 500 / 600	L: 500 / R: 300	L: 500 / R: 300
Grinding wheel width in mm	80 / 120 / 150	80 / 120 / 150	L:100 / R:50	L:100 / R:50
Number of grinding tools	1	1	1	1
Motor power in kW	8 / 12 / 15	8 / 12 / 15	7,5	7,5
Grinding wheel peripheral speed in m/s	45	45	L: 45 / R: 27	L: 45 / R: 27
Max. X-axis speed in mm/min	8.000	8.000	8.000	8.000
X-axis travel in mm	340	340	340	340
X-axis input resolution in mm	0,001	0,001	0,001	0,001
X-axis resolution in mm	0,0001	0,0001	0,0001	0,0001
<b>Workpiece headstock</b>				
Spindle taper	MK5 / MK6	MK5 / MK6	MK5 / MK6	MK6
Workpiece table swivel range max.	+30 ° / -45 °	+30 ° / -45 °	+30 ° / -45 °	+30 ° / -45 °
Speed range in min <sup>-1</sup>	0 - 800	0 - 800	0 - 800	20 - 1.000
<b>Tailstock</b>				
Spindle taper	MK3	MK3	MK3 / MK4	MK4
Quill travel (optional) in mm	20 (60 / 120)	20 (60 / 120)	50	50
<b>Longitudinal slide</b>				
Z-axis travel in mm	480	950	1350	1400
Max. Z-axis speed in m/min.	8000	8000	8000	8000
Z-axis input resolution in mm	0,001	0,001	0,001	0,001
Z-axis resolution in mm	0,0001	0,0001	0,0001	0,0001
Workpiece table swivel range max.	+/- 9 °	+/- 9 °	+/- 9 °	+/- 9 °
<b>General data</b>				
Total electrical connected load in kW	21 (28 / 38)	21 (28 / 38)	28	19
Machine weight in kg (approx.)	4.400 (4.600 / 4.700)	4.400 (4.600 / 4.700)	7600	7600
Length x Depth x Height in mm	2.500 x 4.400 x 2.350	3.000 x 4.400 x 2.350	4.410 x 3.150 x 2.350	4.410 x 3.150 x 2.350