



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

	TBF440	TBF450 TBF450A	TBF460 TBF460A	TBF640	TBF650 TBF650A	TBF660 TBF660A
<b>Technical specifications</b>						
Distance between centres in mm	430			650		
Centre height in mm	100 (opt. 150)	100 (opt. 150)	150	100 (opt. 150)	100 (opt. 150)	150
Grinding length in mm	400			650		
Power requirement in kVA	21	25	28	21	25	28
Weight in kg	4.400	4.500 4.600	4.600 4.700	4.400	4.500 4.600	4.600 4.700
<b>Grindable workpiece diameter</b>						
Max. workpiece diameter with full disc	198 (opt. 298)	198 (opt. 298)	298	198 (opt. 298)	198 (opt. 298)	298
Min. workpiece diameter with worn disc	1			1		
<b>Axle drive</b>						
X-axis speed in mm/min	8.000			8.000		
X-axis resolution in µm in mm/min	0,1			0,1		
Z-axis speed in mm/min	8.000			8.000		
Z-axis resolution in µm	0,1			0,1		
<b>Workhead</b>						
Spindle taper	MK5			MK5		
Workpiece weight between centres	100			100		
Overhung workpiece weight including clamping device in kg	80			80		
Pivotability	+30 ° / -45 °			+30 ° / -45 °		
Spindle speeds	20 – 1.000			20 – 1.000		
<b>Grinding wheelhead</b>						
Grinding wheel diameter in mm	400	500	600	400	500	600
Grinding wheel width in mm	80	80 150	120 150	80	80 150	120 150
Pivotability left	9 °			9 °		
Pivotability right	9 °			9 °		
Motor power in kW	8	12	15	8	12	15
X-axis adjustment range in mm	340			340		
<b>Longitudinal slide</b>						
Longitudinal slide in mm	480			950		
Pivotability of the workpiece table	+/- 9 °			+/- 9 °		
<b>Tailstock</b>						
Taper	MK3			MK3		
Quill travel in mm	20 (opt. 60 or 120)			20 (opt. 60 or 120)		
<b>Space requirement (WxHxD)</b>						
Space requirement in mm	2.500x4.400x2.350			3.000x4.400x2.350		