



M. + M. MAI GMBH  
PRÄZISIONS-RUNDSCHLEIFMASCHINEN



PRECISION GRINDING BY MAI



**MB 1000U**  
M.+M. MAI GMBH

**Different grinding tools**  
can be used for  
both internal and  
external grinding

# CYLINDRICAL GRINDING SPECIALIST FOR SERIES PRODUCTION TASKS

CNC universal and production cylindrical grinding machines

# NUMBERS THAT SPEAK FOR THEMSELVES

	MB 400	MB 600	MB 1000	MB 400U	MB 600U	MB 1000U
<b>Main Data</b>						
Distance between centres in mm	430	680	1.000	430	680	1.000
Centre height standard (optional) in mm	150 (200 / 250)	150 (200 / 250)	150 (200 / 250)	200 (250)	200 (250)	200 (250)
Grinding length in mm	400	600	1.000	400	600	1.000
<b>Grindable workpiece diameter</b>						
Max. workpiece diameter with full wheel standard (optional) in mm	298 (398 / 498)	298 (398 / 498)	298 (398 / 498)	298 (398 / 498)	298 (398 / 498)	298 (398 / 498)
Min. workpiece diameter with worn wheel in mm	1	1	1	1	1	1
Max. workpiece weight between centres (optional) in kg	80 (120)	80 (120)	80 (120)	80 (120)	80 (120)	80 (120)
Max. load for grinding without tailstock (optional) in Nm	80	80	80	80 (95)	80 (95)	80 (95)
<b>Grinding wheelhead</b>						
Grinding wheel diameter in mm	400 / 500 / 600	400 / 500 / 600	400 / 500 / 600	500	500	500
Grinding wheel width in mm	50 / 80 / 100	50 / 80 / 100	50 / 80 / 100	50 / 80 / 100	50 / 80 / 100	50 / 80 / 100
Number of grinding tools	1	1	1	3	3	3
Motor power in kW	8 (15)	8 (15)	8 (15)	8 (15)	8 (15)	8 (15)
Grinding wheel peripheral speed in m/s	45 (60 / 120)	45 (60 / 120)	45 (60 / 120)	45 (60 / 120)	45 (60 / 120)	45 (60 / 120)
B-axis resolution	-	-	-	0,001	0,001	0,001
Max. X-axis speed in mm/min	8.000	8.000	8.000	8.000	8.000	8.000
X-axis travel in mm	385	385	385	385	385	385
X-axis input resolution in mm	0,001	0,001	0,001	0,001	0,001	0,001
X-axis resolution in mm	0,0001	0,0001	0,0001	0,0001	0,0001	0,0001
<b>Workpiece headstock</b>						
Spindle taper	MK5 / MK6	MK5 / MK6	MK5 / MK6	MK5 / MK6	MK5 / MK6	MK5 / MK6
Workpiece table swivel range max.	+30 ° / -45 °	+30 ° / -45 °	+30 ° / -45 °	+30 ° / -45 °	+30 ° / -45 °	+30 ° / -45 °
Speed range in min <sup>-1</sup>	0 - 800	0 - 800	0 - 800	0 - 800	0 - 800	0 - 800
<b>Tailstock</b>						
Spindle taper	MK3 / MK4	MK3 / MK4	MK3 / MK4	MK3 / MK4	MK3 / MK4	MK3 / MK4
Quill travel (optional) in mm	20 (60 / 120)	20 (60 / 120)	20 (60 / 120)	20 (60 / 120)	20 (60 / 120)	20 (60 / 120)
<b>Longitudinal slide</b>						
Z-axis travel in mm	550	950	1.350	550	950	1.350
Max. Z-axis speed in mm/min	8.000	8.000	8.000	8.000	8.000	8.000
Z-axis input resolution in mm	0,001	0,001	0,001	0,001	0,001	0,001
Z-axis resolution in mm	0,0001	0,0001	0,0001	0,0001	0,0001	0,0001
Workpiece table swivel range max.	+/- 9 °	+/- 9 °	+/- 9 °	+/- 9 °	+/- 9 °	+/- 9 °
<b>General data</b>						
Total electrical connected load in kW	28	28	28	28	28	28
Machine weight in kg (approx.)	7.500	8.500	10.500	7.500	8.500	10.500
Length x Depth x Height in mm	2.200 x 3.230 x 2.500	2.800 x 3.230 x 2.500	4.150 x 3.230 x 2.500	2.200 x 3.230 x 2.500	2.800 x 3.230 x 2.500	4.150 x 3.230 x 2.500