

Technical Data

MFZ 4-2W



MFZ 4-3W



MFZ 4-4W



Approved technique - now even more dynamic



SAMAG
MACHINE TOOLS

TECHNICAL DATA		MFZ 4-2W	MFZ 4-3W	MFZ 4-4W
• Working range		2-spindle	3-spindle	4-spindle
X-axis (horizontal)		450 mm	300 mm	225 mm
Y-axis (vertical with counterweights)		500 mm	500 mm	500 mm
Z-axis / Z1,Z2-axis (horizontal)		450 / 2 x 450 mm	450 mm	450 mm
• Main spindle drive				
standard execution:				
spindle distance		450 mm	2 x 300 mm	3 x 225 mm
tool mounting		HSK-A63	HSK-A63	HSK-A63
max. power per spindle (S1/S6)		28 kW (constant)	28 kW (constant)	20/26 kW
max. torque per spindle (S1/S6)		63/83 Nm	63/83 Nm	72/95 Nm
speed range		50 ... 16.000 r. p. m.	50 ... 16.000 r. p. m.	50 ... 15.000 r. p. m.
nominal speed		4.200 r. p. m.	4.200 r. p. m.	2.700 r. p. m.
heavy execution:				
tool mounting		HSK-A63/A80	HSK-A63/A80	
max. power per spindle (S1/S6)		24/32 kW	24/32 kW	
max. torque per spindle (S1/S6)		150/195 Nm	150/195 Nm	
speed range		50 ... 7.500 r. p. m.	50 ... 7.500 r. p. m.	
nominal speed		1.500 r. p. m.	1.500 r. p. m.	
• Feed drives				
max. rapid traverse X/Y/Z (Z1,Z2)		70/70/75 (2x80) m/min	70/70/75 m/min	60/60/60 m/min
max. feed thrust X/Y/Z (Z1,Z2)		8/8/8 (2x3) kN	8/8/8 kN	8/8/8 kN
max. acceleration X/Y/Z (Z1,Z2)		1,1/1,0/1,2 (2x1,4) g	1,0/1,0/1,2 g	0,8/0,8/1,0 g
• Workpiece changer				
horizontal swivelling axis 0°/180°		horizontal	horizontal	horizontal
• NC-rotary tables				
2 A-axes (horizontal) standard		drive with counter bearing per axis (two-sided hydr.clamping/crown gear)	drive with counter bearing per axis (two-sided hydr.clamping/crown gear)	drive with counter bearing per axis (two-sided hydr.clamping/crown gear)
B-axes (vertical) option		2 tables (direct/synchron) 4 tables (synchron)	3 tables (direct/synchron)	4 tables (synchron)
positioning accuracies:				
A-axes hydr. clamping/ crown gear		±10" / ±3"	±10" / ±3"	±10" / ±3"
B-axes hydr. clamping/ crown gear		±10" / ±3"	±10" / ±3"	/ ±3"
• Clamping area/collision circle				
execution with A-axes (circle/length)		2x < ø700/940 mm	2x < ø700/940 mm	2x < ø700/940 mm
execution with B-axes (circle/length)		2x < ø450/300 mm 4x < ø225/220 mm	3x < ø300/300 mm	4x < ø225/220 mm
max. payload per A-axis		650 kg	650 kg	650 kg
max. payload B-axes rotary tables		2x100 kg 4x80 kg	3x100 kg	4x80 kg
• Absolute measuring systems				
in linear axes X/Y/Z (Z1/Z2)		direct	direct	direct
• Tool magazine				
tool capacity		100	90	80
max. tool Ø (all pockets occupied)		85 mm	90 mm	110 mm
max. tool Ø (adjacent pockets empty)		160 mm	160 mm	160 mm
max. tool length		320 mm	320 mm	320 mm
max. tool weight		6 kg	6 kg	6 kg
tool change		3,2 sec.	3,2 sec.	3,6 sec.
• Periphery data				
total connected load		72 kW	82 kW	92 kW
total weight		24.000 kg	25.000 kg	26.000 kg
space requirement standard chip conveyor crosswise arranged (L x B x H in mm)		5.400 x 6.265 x 3.030	5.400 x 6.265 x 3.030	5.400 x 6.265 x 3.030

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