

Completed long stroke series

Machine specifications

Machine specifications			MPF-2114		MPF-2614		MPF-3116		MPF-2130		MPF-2140		MPF-2150		MPF-2630		MPF-2640		MPF-2650		MPF-3130		MPF-3140		MPF-3150	
			F	FS	F	FS	F	FS	F	FS	F	FS	F	FS	F	FS	F	FS	F	FS	F	FS	F	FS	F	FS
Travel	X-axis travel (Longitudinal movement of table)	mm	1 400				1 900		3 500		4 500		5 500		3 500		4 500		5 500		3 500		4 500		5 500	
	Y-axis travel (Cross movement of spindle head)	mm	2 100		2 600		3 100		2 100						2 600				3 100							
	Z-axis travel (Vertical movement of ram)	mm	715								715															
	W-axis travel (Elevation of crossrail), 250 pitches at 3 positions	mm	—	500	—	500	—	500	—	500	—	500	—	500	—	500	—	500	—	500	—	500	—	500	—	500
	Height (distance from table surface to vertical spindle gage plane)	mm	1 050	1 400	1 050	1 400	1 050	1 400	1 050	1 400	1 050	1 400	1 050	1 400	1 050	1 400	1 050	1 400	1 050	1 400	1 050	1 400	1 050	1 400	1 050	1 400
	Distance between columns, through which maximum workpiece can pass	mm	2 100		2 600		3 100		2 100						2 600				3 100							
Table	Table working surface	mm	1 800×1 400		2 000×1 400		2 800×1 600		1 800×3 000		1 800×4 000		1 800×5 000		2 000×3 000		2 000×4 000		2 000×5 000		2 500×3 000		2 500×4 000		2 500×5 000	
	Table loading capacity	kg	10 000								20 000															
	Table T-slot size	mm	24 mm-wide; Arranged at 200 mm pitches in longitudinal direction of table.								24 mm-wide; Arranged at 200 mm pitches in longitudinal direction of table.															
Spindle	Spindle speed (continuous)	min ⁻¹	40~10 000								40~10 000															
	Spindle taper hole		7/24 taper No.50								7/24 taper No.50															
	Maximum spindle torque	N·m {kgf·m}	552 {56}								552 {56}															
	Spindle bearing inner diameter	mm	100								100															
Spindle ram	Type		Open ram type								Open ram type															
	Guideway		Roller guide								Roller guide															
	Cross section size	mm	380×380								380×380															
Feedrate	Rapid traverse rate (X, Y, Z)	m/min	30(X, Y) 20(Z)								20(X, Z) 30(Y)															
	Feedrate (X, Y, Z)	mm/min	1~10 000								1~10 000															
	Crossrail feedrate (W)	m/min	—	(1)	—	(1)	—	(1)	—	(1)	—	(1)	—	(1)	—	(1)	—	(1)	—	(1)	—	(1)	—	(1)		
Tool	Type of tool shank		MAS BT50								MAS BT50															
	Type of retention knob		MAS P50T-1 (45°)								MAS P50T-1 (45°)															
Motor	Spindle drive motor (50 %ED/cont. rating)	kW	AC26/15								AC26/15															
	Feed motors	X-axis	kW	AC5.5								AC7.5														
		Y-axis	kW	AC5.5								AC5.5														
		Z-axis	kW	AC5.1×2								AC5.1×2														
Power sources	Power supply		AC200/220V±10%, 50/60Hz±1Hz								AC200/220V±10%, 50/60Hz±1Hz															
	Power capacity (excluding options)	kVA	76								76															
	Compressed air source	MPa	0.5~0.8MPa								0.5~0.8MPa															
Tank capacity	Tank capacity of hydraulic unit (for 24-tool ATC)	ℓ	10	37	10	37	10	37	10	37	10	37	10	37	10	37	10	37	10	37	10	37	10	37	10	37
	Tank capacity of spindle cooling unit	ℓ	60								60															
CNC system		TOSNUC PX100								TOSNUC PX100																
Accuracy	Positioning accuracy	mm	X-, Y-axis±0.007/1 000 Z-axis±0.007/715								X-, Y-axis±0.007/1 000 Z-axis±0.007/715															
	Repeatability	mm	±0.003								±0.003															
Painting color	Machine exterior		A25-85A (Munsell 5Y8.4/0.5) and N2.5 [Two-toned color]								A25-85A (Munsell 5Y8.4/0.5) and N2.5 [Two-toned color]															
	Machine interior		Munsell 10YR8/4								Munsell 10YR8/4															

			MPF-2114FS	MPF-2614FS	MPF-3116FS
Machine size	Machine height	mm	5 350	5 350	5 350
	Floor space	mm	5 150×4 420	5 750×4 420	6 250×5 700
	Mass of machine	kg	21 200	23 500	30 200