

MPF-E/ES Series Machine specifications

			Standard stroke						Long stroke																			
			MPF-2114		MPF-2614		MPF-3116		MPF-2130		MPF-2140		MPF-2150		MPF-2630		MPF-2640		MPF-2650		MPF-3130		MPF-3140		MPF-3150			
			E	ES	E	ES	E	ES	E	ES	E	ES	E	ES	E	ES	E	ES	E	ES	E	ES	E	ES	E	ES		
Travel	X-axis travel (Longitudinal movement of table)	mm	1400				1900		3500		4500		5500		3500		4500		5500		3500		4500		5500			
	Y-axis travel (Cross movement of spindle head)	mm	2100		2600		3100		2100						2600						3100							
	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	1050	1400	1050	1400	1050	1400	1050	1400	1050	1400	1050	1400	1050	1400	1050	1400	1050	1400	1050	1400	1050	1400	1050	1400		
	Distance between columns,through which maximum workpiece can pas	mm	2100		2600		3100		2100						2600						3100							
Table	Table working surface	mm	1800X1400		2000X1400		2800X1600		1800X3000		1800X4000		1800X5000		2000X3000		2000X4000		2000X5000		2500X3000		2500X4000		2500X5000			
	Table loading capacity	mm	10000						20000																			
	Table T-slot size	mm	24mm-wide:Arranged at 200mm pitches in longitudinal direction of table						24mm-wide:Arranged at 200mm pitches in longitudinal direction of table																			
Spindle	Spindle speed (continuous)	mm-1	40~10000						40~10000																			
	Spindle taper hole		7/24 taper No.50						7/24 taper No.50																			
	Maxmum 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	380X380						380X380																			
Feedrate	Rapid traverse rate (X,Y,Z)	mm/min	30000(X,Y) 20000(Z)						20000(X,Z) 30000(Y)																			
	Feedrate (X,Y,Z)	mm/min	1~10000						1~10000																			
	Crossrail feedrate (W)	mm/min	-	(1000)	-	(1000)	-	(1000)	-	(1000)	-	(1000)	-	(1000)	-	(1000)	-	(1000)	-	(1000)	-	(1000)	-	(1000)	-	(1000)		
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 (25%ED/cont.rating)	kW	AC26/15						AC26/15																			
	Feed motors	X-axis	AC5.5						AC10.0																			
		Y-axis	AC5.5						AC5.5																			
		Z-axis	AC5.1X2						AC5.1X2																			
Power source	Power supply		AC200/220V±10%、50/60Hz±1Hz						AC200/220V±10%、50/60Hz±1Hz																			
	Power capacity (excluding option)	kVA	76						78																			
	Compressed air source	MPa	0.5~0.8MPa (800NL/min)						0.5~0.8MPa (800NL/min)																			
Tank capacity	Tank capacity of hydraulic unit (for 24-tool ATC)	ℓ	10	40	10	40	10	40	10	40	10	40	10	40	10	40	10	40	10	40	10	40	10	40	10	40		
	Tank capacity of spindlecooling unit	ℓ	110						110																			
Mchine size	Machine height	Excluding options	mm	4480	5350	4480	5350	4480	5350	4515	5385	4515	5385	4515	5385	4515	5385	4515	5385	4515	5385	4515	5385	4515	5385			
	Floor space requirements	Excluding options	mm	5150X 4420	5150X 4460	5750X 4420	5750X 4460	6250X 5700	6250X 5960	5300X 10000	5300X 10000	5300X 12000	5300X 12000	5300X 14000	5300X 14000	5900X 10000	5900X 10000	5900X 12000	5900X 12000	5900X 14000	5900X 14000	6400X 10000	6400X 10000	6400X 12000	6400X 12000	6400X 14000		
	Mass of machine	Excluding options	kg	21200	27200	25200	28200	30200	37200	31000	35000	34000	38000	37000	41000	33000	37000	36000	40000	40000	44000	35000	40000	40000	45000	47000	51000	
CNC system			TOSNUC999						TOSNUC999																			
Accuracy	Positioning accuracy	mm	X、Y-axis±0.007/1000 Z-axis±0.007/715						X、Y-axis±0.007/1000 Z-axis±0.007/715																			
	Repeatability	mm	±0.003						±0.003																			
Painting colo	Machine exterior		Munsell 5Y8.4/0.5 and N2.5 [Two-toned color]						Munsell 5Y8.4/0.5 and N2.5 [Two-toned color]																			
	Machine interior		Munsell10YR8/4						Munsell10YR8/4																			