

LP Series

		LP-3021	LP-4021	LP-5021	LP-6021	LP-3025	LP-4025	LP-5025	LP-6025	LP-4033	LP-5033	LP-6033	LP-7033	
SPECIFICATIONS														
X-axis travel	mm	3,000	4,000	5,000	6,000	3,000	4,000	5,000	6,000	4,000	5,000	6,000	7,000	
Y-axis travel	mm	2,100 (2,800 Opt.)				2,500 (3,200 Opt.)				3,300 (4,000 Opt.)				
Z-axis travel	mm	760 (1,000 / 1,200 / 1,400 Opt.)												
Distance from spindle nose to table top	mm	200 ~ 960				(200 ~ 1,200 / 200 ~ 1,400 / 200 ~ 1,600 Opt.)								
Distance between columns	mm	2,300				2,700				3,500				
TABLE														
Table size (X direction)	mm	3,020	4,020	5,020	6,020	3,020	4,020	5,020	6,020	4,020	5,020	6,020	7,020	
Table size (Y direction)	mm	2,010				2,400				2,400 (3,010 Opt.)				
Table load capacity	kg	10,000	12,000	15,000	18,000	12,000	15,000	18,000	20,000	15,000	18,000	20,000	20,000	
SPINDLE														
Spindle taper		BT50 / DIN50 (Opt.) / CAT50 (Opt.)												
Spindle motor (cont. / 30 min.)	kW	22 / 26 (30 / 35 HP)												
Spindle speed	rpm	Z-axis : 1,000 / 1,200 / 1,400 mm ; 4,000 / 5,000 / 6,000 Gear Spindle (Opt.) : 6,000 (Std.) 6,000 / 8,000 / 12,000 Built-in Spindle (Opt.) : 8,000 / 10,000 Direct-driven Spindle (Opt.)												
FEED RATE														
X-axis rapid feed rate	mm/min.	20,000	15,000	10,000	10,000	20,000	15,000	10,000	10,000	15,000	10,000	10,000	7,500	
Y / Z axes rapid feed rate	mm/min.	15,000 (Std.) Y : 10,000 (Y-axis : 4,000mm Opt.) *1 Z : 10,000 (Z-axis : 1,000 / 1,200 / 1,400mm Opt.) *1												
Max. cutting feed rate	mm/min.	10,000	10,000	8,000	5,000	10,000	10,000	8,000	5,000	10,000	8,000	5,000	5,000	
TOOL MAGAZINE														
Tool magazine capacity	T	32 (40 / 60 / 90 / 120 Opt.)												
Max. tool diameter / adj. pocket empty	mm	Ø127 / Ø215												
Max. tool length (from gauge line)	mm	350 (400 Opt.)												
Max. tool weight	kg	20												
ACCURACY														
Positioning accuracy (JIS B 6338)	mm	± 0.015 / Full Travel												± 0.010 / Full Travel
Positioning accuracy (VDI 3441)	mm	P ≤ 0.025 / Full Travel	P ≤ 0.030 / Full Travel	P ≤ 0.040 / Full Travel	P ≤ 0.050 / Full Travel	P ≤ 0.025 / Full Travel	P ≤ 0.030 / Full Travel	P ≤ 0.040 / Full Travel	P ≤ 0.050 / Full Travel	P ≤ 0.030 / Full Travel	P ≤ 0.040 / Full Travel	P ≤ 0.050 / Full Travel	P = 0.040 / Full Travel	
Repeatability (JIS B 6338)	mm	± 0.003												
Repeatability (VDI 3441)	mm	Ps ≤ 0.020	Ps ≤ 0.025	Ps ≤ 0.030	Ps ≤ 0.035	Ps ≤ 0.020	Ps ≤ 0.025	Ps ≤ 0.030	Ps ≤ 0.035	Ps ≤ 0.025	Ps ≤ 0.030	Ps ≤ 0.035	Ps = 0.030	
GENERAL														
Power requirement	V	220 ± 10 %												
Pneumatic pressure requirement	kg/cm²	5 - 8												
Hydraulic tank capacity	liter	120												
Lubrication oil tank capacity	liter	6												
Coolant tank capacity (pump)	liter	650 (2 HP)				750 (2 HP)				1,000 (2 HP)				
Machine weight	kg	33,000	37,000	41,000	45,000	36,000	40,000	44,000	48,000	42,000	46,000	50,000	75,000	

*1 Please check with our sales representative the possibility for machine sizes other than listed in this catalog,as well as additional options. Specifications are subject to change without notice.

Standard Accessories

- Spindle cooling system
 - Centralized automatic lubricating system
 - 4 pcs splash guard
 - Tool magazine : 32 T
 - Coolant system with pump and tank
 - Coil type chip augers
- Caterpillar type chip conveyor and bucket
 - Foundation bolt kit
 - Tool box
 - Alarm light
 - Air gun
 - Automatic power-off system

Optional Accessories

- Spindle :
 - 4,000 / 5,000 / 6,000 rpm gear spindle
 - 8,000 / 10,000 rpm direct-driven spindle
 - 6,000 / 8,000 / 12,000 rpm built-in motorized spindle
 - Spindle taper : DIN50 / CAT50
 - Y travel extension : 2,800 / 3,200 / 4,000 mm
 - Z travel extension : 1,000 / 1,200 / 1,400 mm
 - Column raiser : 200 / 300 / 400 / 500 mm
- Attachment head (Manual) :
 - 35° / 90° / Extension / Universal Head
 - Attachment head (Automatic) :
 - 35° / 90° / Extension / Universal Head
 - Tool magazine : 40 / 60 / 90 / 120 T
 - X / Y / Z axes optical linear scale (HEIDENHAIN)
 - Spindle thermal compensation
 - Coolant through the tool adapter
- Coolant through the spindle (Form A)
 - Automatic tool length measurement
 - Automatic work piece measurement
 - CNC rotary table
 - Oil skimmer
 - Oil mist cooling system