

SP Series

SP Series		SP-2016	SP-3016	SP-4016
SPECIFICATIONS				
X-axis travel	mm	2,100	3,060	4,000
Y-axis travel	mm	1,600		
Z-axis travel	mm	760		
Distance from spindle nose to table top	mm	200 ~ 960		
Distance between columns	mm	1,700		
TABLE				
Table size (X direction)	mm	2,310	3,260	4,200
Table size (Y direction)	mm	1,500		
Table load capacity	kg	8,000	10,000	12,000
SPINDLE				
Spindle taper		BT50 / DIN50 (Opt.) / CAT50 (Opt.)		
Spindle motor (cont. / 30 min.)	kW (HP)	22 / 26 (30 / 35)		
Spindle speed	rpm	6,000		
FEED RATE				
X-axis rapid feed rate	mm/min.	20,000	20,000	15,000
Y / Z axes rapid feed rate	mm/min.	20,000 / 15,000		
Max. cutting feed rate	mm/min.	10,000		
TOOL MAGAZINE				
Tool magazine capacity	T	32 (24 / 40 / 60 Opt.)		
Max. tool diameter / adj. pocket empty	mm	Ø125 / Ø215		
Max. tool length (from gauge line)	mm	400		
Max. tool weight	kg	20		
ACCURACY				
Positioning accuracy (JIS B 6338)	mm	± 0.015 / Full Travel		
Positioning accuracy (VDI 3441)	mm	P ≤ 0.020 / Full Travel	P ≤ 0.025 / Full Travel	P ≤ 0.030 / Full Travel
Repeatability (JIS B 6338)	mm	± 0.003		
Repeatability (VDI 3441)	mm	Ps ≤ 0.020	Ps ≤ 0.020	Ps ≤ 0.025
GENERAL				
Power requirement	V	220 ± 10 %		
Pneumatic pressure requirement	kg/cm ²	5 - 8		
Hydraulic tank capacity	liter	120		
Lubrication oil tank capacity	liter	6		
Coolant tank capacity (pump)	liter	420 (2 HP)		
Machine weight	kg	19,000	23,000	28,000

Standard Accessories

- Spindle cooling system
- Centralized automatic lubricating system
- Fully enclosed splash guard w/o roof
- Coolant system with pump and tank
- Coil type chip augers
- Caterpillar type chip conveyor and bucket
- Foundation bolt kit
- Tool box
- Alarm light
- Water gun
- Automatic power-off system
- Tool magazine : 32 T

Optional Accessories

- Spindle:
 - 4,000 rpm gear spindle
 - 8,000 / 10,000 rpm direct-driven spindle
 - 6,000 / 8,000 / 12,000 rpm built-in motorized spindle
- Z travel extension : 1,000 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