

High Speed Double Column Machining Center



High Speed and High Accuracy Machining of Mold Industry & Aluminum Structure

SE high speed machining center raises double in productivity by excellent mechanism and structural performance.

Extraordinary performance particularly meets high speed and high accuracy machining of mold, and mass removal machining of aluminum alloy.

The performance of High Speed Machining (HSM) is created by precise mechanism and multiple spindle combination.

- 0.5G Axial Thrust.
- Spindle Speed Reaches 28,000 rpm.
- 20 m/min Feedrate.
- Precise Contour Accuracy.
- Delicate Surface Roughness.
- Positioning Accuracy P 0.007mm.
- Repeatability Ps 0.003mm.
- Aluminum Alloy Chips Removal Rate 7,000 cc/min.





Specification | SE-xx12 Series

Model			Unit	SE-1612 SE-2112		SE-2612			
TRAVEL									
X axis			mm	1,600 2,100 2,600					
Y axis			mm	1,200					
Z axis			mm	800 / 1,000 (columns + 200)(Opt.)					
Distance from	Direct-Driven(#40)	Z axis=800	mm	210~1,010					
spindle nose to table		Z axis=1,000	mm	210 / 1,210 (columns + 200)					
Spindle center to column			mm	450					
Width between columns			mm	1,250					
TABLE									
Dimension			mm	1,800 x 1,000	2,000 x 1,000	2,800 x 1,000			
T-slot (Dimension x Number x Pitch)-Y axis direction			mm	22 x 7 x 250		22 x 11 x 250			
Max. table load			kg	8,000	12,000				
SPINDLE									
Spindle motor (continuous/30 minute rated)			kW	15 / 18.5					
Spindle speed			rpm	1,5000					
Spindle taper			-	BBT-40					
Spindle output to	Spindle output torque (Cont. /S6-40%)			L: 102 / 126 H: 29 / 35					
FEED									
Cutting feedrate			mm/min	1~24,000					
Rapid traverse			m/min	XYZ: 24 / 30 (Opt.)					
X,Y,Z power capacity (FANUC)			kW	X:4.5, Y:4.5, Z:4.5x2					
ACCURACY									
D (127)	Refer to	Refer to JIS B6333		±0.004 / Full travel					
Repeatability	Refer to VDI 3441		mm	P0.007					
D	Refer to JIS B6333		mm	±0.001					
Positioning accur	Refer to VDI 3441		mm	Ps0.003					
ATC									
ATC capacity	ATC capacity Vertical		pcs	24 / 20(Opt.) / 32(Opt.) / 40(Opt.)					
Max. tool weight*1		kg	HSK-A63 / BBT-40: 8 kg / HSK-A100 / BBT-50: 15kg						
Max. tool length			mm	HSK-A63 / BBT-40: 300 / HSK-A100 / BBT-50: 300					
Max. tool size (Full/ next pockets empty)			mm	HSK-A63 / BBT-40: Φ75 (Φ130) / HSK-A100 / BBT-50: Φ125 (Φ250)					
OTHERS									
Electric power consumption			kVA	55					
Pneumatic input pressure			kg/cm ²	6					
Air flow rate			L/Min	900					
Machine net weight			kg	15,500	17,500	19,500			
Machine gross weight			kg	18,500	20,500	23,500			
Max. floor space (LxWxH)			m	7.4 x 6.3 x 4.4	8.2 x 6.3 x 4.5	9.6 x 6.3 x 4.5			

^{*} All specifications and designs are subject to change without notice.

^{*} For details, please refer to Machine Specification.

^{*} The manufacture reserves the right to modify the design, specifications mechanism, etc.









32 / 40 T tool magazine (Opt.)



 Modularized cart for oil cooling device and hydraulic unit(Std.)



Wash gun and pneumatic interface (Std.)

Standard Accessory

- 1 Fanuc 0i MF controller
- 2 15,000 rpm direct driven spindle (BBT-40)
- 3 Z travel 800 mm
- 4 Spindle cooling system
- 5 24 Tools magazine with arm type ATC
- 6 Centralized auto lubrication system
- 7 Independent lubrication oil collector
- 8 Air blast through spindle
- 9 Wash gun and pneumatic interface
- 10 Cutting fluid cooling system
- 11 Enclosed sheet metal guard with roof
- 12 Screw type chip conveyor on table sides
- 13 Caterpillar type chip conveyor
- 14 Heat exchanger for electrical cabinet
- 15 Swiveling arm type operation panel
- 16 Working lamp
- 17 Operation cycle finish and alarm light
- 18 Movable manual pulse generator
- 19 RJ45 interface
- 20 Footswitch for tool clamping
- 21 XYZ-axis Linear Scales(Fagor)
- 22 Auto power off function
- 23 Spindle cutting load software protection
- 24 XYZ-axis travel hard limits protection
- 25 Foundation pads and bolts kits
- 26 Adjustment tool and tool kits
- 27 Z-axis retract function at power failure
- 28 Thermal compensation System
- 29 Technical manuals(operation, maintenance manual and circuit diagram)

Optional Accessory & Function

- 1 FANUC 31 iB; HEIDENHAIN TNC 620/640 Controllers
- 2 Built-in spindle 20,000/ 2,4000/ 2,8000 rpm(HSK-A63); 10,000/12,000 rpm(50#, HSK-A100)
- 3 Built-in spindle only for Heidenhain controller: 15,000 rpm (50#, HSK-A100)
- 4 Built-in spindle 28,000 rpm (HSK-A63) for Heidenhain controller
- 5 Direct driven spindle 10,000/12,000 rpm (50#, HSK-A100)
- 6 Rapid traverse (X/Y/Z) 30 m/min
- 7 Z axis travel 1,000 mm
- 8 Column higher 200 mm
- 9 Spindle ring cutting coolant device (Built-in spindle excluded)
- 10 Coolant through spindle system 20/70 bar
- 11 Reserved interface for coolant through spindle system
- 12 Oil skimmer
- 13 Oil mist cooling device
- 14 Oil mist recycling device
- 15 20T tools magazine carousel type;32T/40T tool magazine arm type ATC
- 16 Enclosed sheet metal guard (without roof)
- 17 Worktable fluid flushing function
- 18 Helically bladed screw conveyor on table sides
- 19 Chip cart
- 20 Air conditioner for electrical cabinet
- 21 Transformer
- 22 Reserved interface for 4th axis
- 23 Auto tool length measurement
- 24 Auto coordinate measurement
- 25 Spindle load hardware protection
- 26 XYZ-axis Linear Scales (HEIDENHAIN)
- 27 CE Regulation

Wision Wide retains the right to modify product specification and related information.
If you have any question, please contact us.



Specification | SE-xx18 Series

Model			Unit	SE-1618	SE-2118	SE-2618	SE-3118		
TRAVEL									
X axis			mm	1,600	2,100	2,600	3,100		
Y axis			mm	1,800	1,800	1,800	1,800		
Z axis			mm	800 / 1,000 (columns + 200)(Opt.)					
Distance from spindle nose to table		Z axis=800	mm	210~1,010					
	Direct-Driven(#40)	Z axis=1,000	mm	210 / 1,210 (columns + 200)					
Spindle center to column			mm	450					
Width between columns			mm	1,850					
TABLE									
Dimension			mm	1,800 x 1,600	2,300 x 1,600	2,800 x 1,600	3,300 x 1,600		
T-slot (Dimensior	x Number x Pitch)-Y axis direction	mm	22 x 7 x 250	22 x 9 x 250	22 x 11 x 250	22 x 13 x 250		
Max. table load			kg	8,000	10,000	12,000	14,000		
SPINDLE									
Spindle motor (continuous/30 minute rated)			kW	15 / 18.5					
Spindle speed			rpm	1,5000					
Spindle taper			-	BBT-40					
Spindle output torque (Cont. /S6-40%)			Nm	L: 102 / 126 H: 29 / 35					
FEED									
Cutting feedrate			mm/min	1~24,000					
Rapid traverse			m/min	XYZ: 24 / 30 (Opt.)					
X,Y,Z power cap	acity (FANUC)		kW	X:4.5, Y:4.5, Z:4.5x2					
ACCURACY									
Repeatability	Refer to JIS B6333		mm	±0.004 / Full travel					
	Refer to VDI 3441		mm	P0.007					
Positioning accura	Refer to JIS B6333		mm	±0.001					
r ositioning accu	Refer to VDI 3441		mm	Ps0.003					
ATC									
ATC capacity	capacity Vertical		pcs	24 / 20(Opt.) / 32(Opt.) / 40(Opt.)					
Max. tool weight*1		kg	HSK-A63 / BBT-40: 8 kg / HSK-A100 / BBT-50: 15kg						
Max. tool length			mm	HSK-A63 / BBT-40: 300 / HSK-A100 / BBT-50: 300					
Max. tool size (F	ull/ next pockets	empty)	mm	HSK-A63 / BI	ВТ-40: Ф75 (Ф130) /	HSK-A100 / BBT-50:	Ф 125 (Ф 250)		
OTHERS									
Electric power consumption			kVA	55					
Pneumatic input pressure			kg/cm ²	6					
Air flow rate			L/Min	900					
Machine net weight			kg	17,500	19,500	23,500	27,500		
Machine gross weight			kg	20,500	22,500	26,500	31,000		
Max. floor space (LxWxH)			m	8.0 x 7.2 x 4.5	9.0 x 7.2 x 4.5	10.0 x 7.2 x 4.5	11.0 x 7.2 x 4.5		

^{*} All specifications and designs are subject to change without notice.

^{*} For details, please refer to Machine Specification.

 $^{^{\}star}\,$ The manufacture reserves the right to modify the design, specifications mechanism, etc.