

SE
SERIES

High Speed Double Column Machining Center



High Speed and High Accuracy Machining of Mold Industry. High Efficient Machining of Aluminum Structure.

SE high speed machining center has a 50% increase 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.

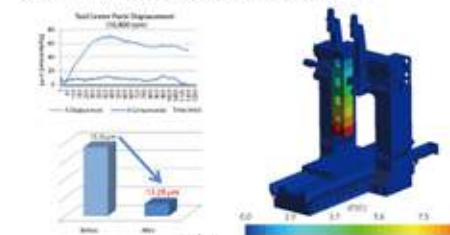
- 0.5G Axial Thrust.
- Spindle Speed Reaches 28,000 rpm.
- 20 m/min Feedrate.
- Precise Contour Accuracy.
- Delicate Surface Roughness.
- Positioning Accuracy P 0.007mm.
- Repeatability Ps 0.003mm.
- Aluminum Alloy Chips Removal Rate 7,000 cc/min.

Structure of Machine Head

- Box shape, symmetrical, and thermal friendly structure enables outstanding rigidity and precise accuracy.
- Anti-bending and distortion-resistant characteristic supports whole Z-axis travel and provides best straightness.

Friendly Thermal Accuracy

Ambient Temperature Compensation (ATC) 0.005mm
Spindle Thermal Compensation (STC) 0.02mm



Aerospace Aluminum Frame



- Size : 1,425 x 680 x 75 mm
- Material : Al6061
- Tool : D25 End Mill
- Speed : 10,500 rpm
- Ap: 70 mm
- Tool Path : Equal TEA Angle Path

Features

- 24 m/min High Cutting Feedrate
- 2.8 times Tool Diameter~Cutting Depth Ratio
- 2000 cc/min High Material Removal Rate
- Alumina Cutting Efficiency: 90 cc/kW (2 Times Productivity)

Car Headlight Mold



- Size : 800 x 550 x 250 mm
- Material : P20 (HRC30°)
- Tool : D10R5 Ball End
- Finish Pitch: 0.15mm
- Tool Path : 45° Projection Cutting
- Speed : 12,000 RPM
- Cutting Feedrate : 4,000mm/min

Features

- 0.2G High Acceleration Mold Finishing
- High Feed Rough Machining: D40R1, F10,000mm/min, 160cc/min
- High Feed Mold Surface Finishing : D10R5 Ball End, F4,000mm/min
- High Surface Roughness : Ra0.4 μm
- 0.04 mm Contour Accuracy

Model	X axis	Y axis	Z axis	Table dimension	Max. table load	Spindle motor (cool/ 30 min rated)	Spindle speed	Cutting feed rate	Rapid traverse(x/y/z)
Unit	mm	mm	mm	mm	kg	kW	rpm	mm/min	m/min
SE-1612	1,800			1,800 x 1,100	8,000	15 / 18.5	15,000	1~24,000	24 / 30(Opt.)
SE-2112	2,100	1,200	800/1,000 (Opt.)	2,000 x 1,000	10,000				
SE-2612	2,600			2,800 x 1,100	12,000				
SE-1618	1,800			1,800 x 1,600	8,000	15 / 18.5	15,000	1~24,000	24 / 30(Opt.)
SE-2118	2,100	1,800	800/1,000 (Opt.)	2,300 x 1,600	10,000				
SE-2618	2,600			2,800 x 1,600	12,000				
SE-3118	3,100			3,300 x 1,600	14,000				

For details, please refer to Machine Specification Instruction

High Speed
Machining

