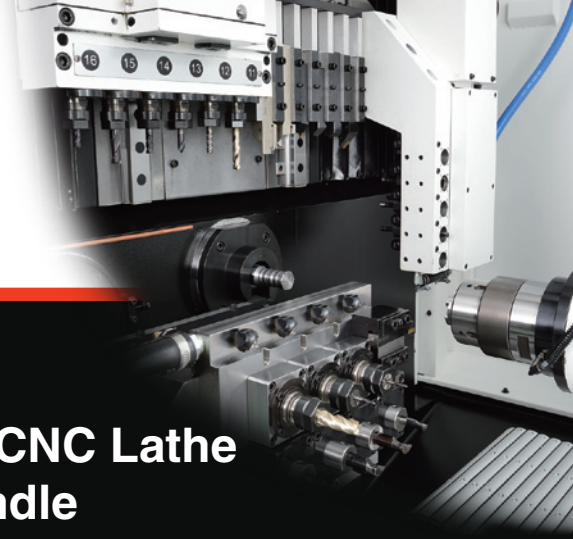




Machinery

☎ +886-4-2533-7614 ✉ info@chiah-chyun.com



SY2-42E

Swiss-type CNC Lathe Double Spindle

Multiple Tool System Y2 Axis With Live Tooling Function With/Without Guide Bush

- Main and sub-spindle with C-axis contouring capability. The maximum speed of the spindles is 6,000 rpm and the minimum indexing unit degree is 0.001°. The maximum bar capacity up to Ø42mm.
- SY2-42E provides the option to go with or without a guide bush to achieve optimum machining condition.
- Multiple tooling system can increase machining flexibility, perform milling, drilling and tapping to the front and rear to offer highly efficient parts processing in a single cycle.
- Back machining device with Y2 axis, which can load 8 pcs live tools running at 6,000 rpm. The back machining device is available to mount with O.D. or I.D. tool, as required.
 - Main Spindle Tool System (6 Radial Live Tools, 3 Axial Live Tools, 6 O.D. Tools, 5 I.D. Tools)
 - Sub Spindle Tool System (8 Live Tools, 4 O.D. Tools (max))

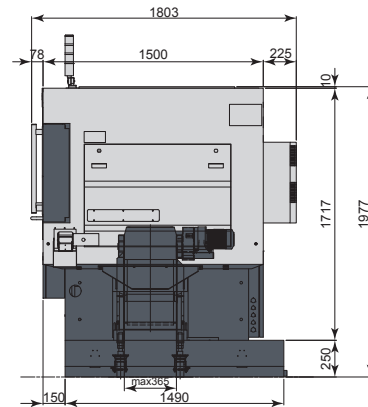
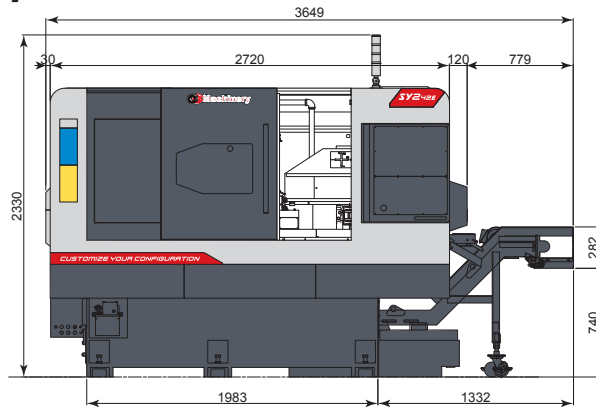


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Competence and Capabilities

SY2-42E

Machine Layout



Unit: mm

Specifications

Model		SY2-42E	
Control Unit	Controller	Non Guide Bush	Guide Bush
Capacity	Max. Turning Dia.	Ø42 mm	
	Max. Turning Length Per Chuck	110 mm	320 mm
	X1 / X2-Axes Travel	220 / 380 mm	
	X1 / X2-Axes Servo Motor	1.3 kW / 0.85 kW	
	Z1-Axis Travel	460 mm	320 mm
	Z2-Axis Travel	460 mm	
	Z1 / Z2-Axes Servo Motor	0.85 kW	
	Y1 / Y2-Axes Travel	620 / 130 mm	
	Y1 / Y2-Axes Servo Motor	1.3 kW / 0.75 kW	
	X1 / Y1 / Z1 Rapid Travel Speed	30 m/min	
	X2 / Z2 Rapid Travel Speed	30 m/min	
	Y2 Rapid Travel Speed	5 m/min	
	Min. Input Unit	0.001 mm	
	Spindle Bore	Ø43 mm	
	Max. Bar Feeding Dia.	Ø42 mm	
	Max. Spindle Speed	6000 rpm	
	Center Height	1100 mm	
	Collet of Spindle	TRB-42	
	Spindle Servo Motor	7.5 kW	
	C-Axis Index Positioning	0.001°	
	O.D. Turning Tool Size / Number	□ 16 mm / 5 pcs □ 20 mm / 1 pcs	
	I.D. Turning Tool Size / Number	Ø25 mm / 5 pcs	
	Sub Spindle Bore	Ø37 mm (Op: Ø43 mm)	
	Max. Bar Feeding Dia.	Ø36 mm (Op: Ø42 mm)	
	Max. Sub Spindle Speed	6000 rpm	
	Collet of Sub Spindle	TRB-36 (Op: TRB-42)	
	Sub Spindle Servo Motor	4.4 kW	
	I.D. Turning Tool Size	Ø25 mm	
	C-Axis Index Positioning	0.001°	
	Radial Live Tooling Size / Number	ER-20 / 6 pcs	
	Radial Live Tooling Servo Motor	1.5 kW	
	Max. Radial Live Tooling Speed	6000 rpm	
	Axial Live Tooling Size / Number	ER-20 / 3 pcs	
	Axial Live Tooling Servo Motor	0.75 kW	
	Max. Axial Live Tooling Speed	6000 rpm	
	Axial Live Tooling Size / Number	ER-20 / 8 pcs	
	Axial Live Tooling Servo Motor	3.0 kW	
	Max. Axial Live Tooling Speed	6000 rpm	
	Hydraulic Motor	1 HP / 0.75 kW	
	Hydraulic Tank	46L	
	Spindle Upper Flush Pump	1 HP / 0.75 kW	
	Tool Coolant Pump	1 HP / 0.75 kW	
	Coolant Tank	240L	
	Power	220 V / 35 kVA	
	Machine Size (LxWxH) (include chip conveyor)	3649 x 1803 x 1977 mm	

* Design and specs subject to change without notice.

