CHIAH CHYUN **Machinery**

T +886-4-2533-7614 E 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

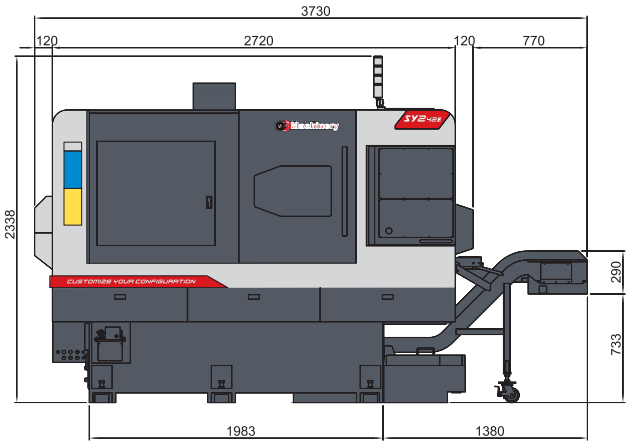
- Main and sub-spindle with C-axis contouring capability. The maximum speed of the spindles is 6,000 rpm and the minimum indexing unit degree is 0.001° . The maximum bar capacity up to Ø42mm.
- SY2-42E provides the option to go with or without a guide bush to achieve optimum machining condition.
- Multiple 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, 4 Axial Live Tools, 6 O.D. Tools, 5 I.D. Tools)
  - Sub Spindle Tool System (8 Live Tools, 4 O.D. Tools (max))

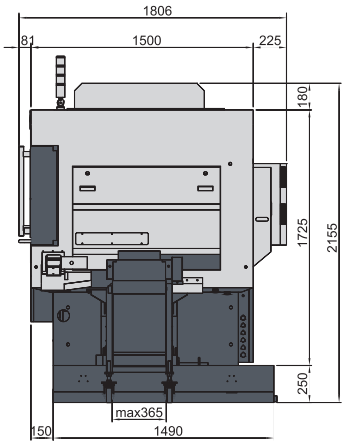


Competence and Capabilities

SY2-42E

Machine Layout





Unit: mm

Specifications

Model		SY2-42E	
Control Unit	Controller	Non Guide Bush	Guide Bush
		SYNTEC	
Capacity	Max. Turning Length Per Chuck	110 mm	320 mm
Axes Specification	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	
Main Spindle	Max. Bar Feeding Dia.	Ø51 mm	Ø42 mm
	Max. Spindle Speed	St4500rpm / Op6000rpm	
	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	Max. Bar Feeding Dia.	Ø42 mm	
	Max. Sub Spindle Speed	St4500rpm / Op6000rpm	
	Collet of Sub Spindle	TRB-42	
	Sub Spindle Servo Motor	4.4 kw	
	I.D. Turning Tool Size	Ø25 mm	
	C-Axis Index Positioning	0.001°	
Main Spindle Live Tooling	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 / 4 pcs	
	Axial Live Tooling Servo Motor	0.75 kw	
	Max. Axial Live Tooling Speed	6000 rpm	
Sub Spindle Live Tooling	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	Hydraulic Motor	1 HP / 0.75 kw	
	Hydraulic Tank	46L	
Coolant Pump	Spindle Upper Flush Pump	1 HP / 0.75 kw	
	Tool Coolant Pump	1 HP / 0.75 kw	
	Coolant Tank	240L	
Machine	Voltage stabilizer / transformer	220 V / 30 KVA	
	Machine Size (LxWxH) (include chip conveyor)	3730 x 1806 x 2155 mm	
	Machine N.W. (includes chip conveyor)	5000kg	

* Design and specs subject to change without notice.

CHIAH CHYUN Machinery
CHIAH CHYUN MACHINERY CO., LTD.
TEL: +886-4-2533-7614
FAX: +886-4-2532-9524
http://www.chiah-chyun.com
mail: info@chiah-chyun.com