



SY2-42E

Swiss-type CNC Lathe
Double Spindle

Direct Drive

Enhanced roundness and accuracy are achieved, as there are no gears or belts causing vibrations.

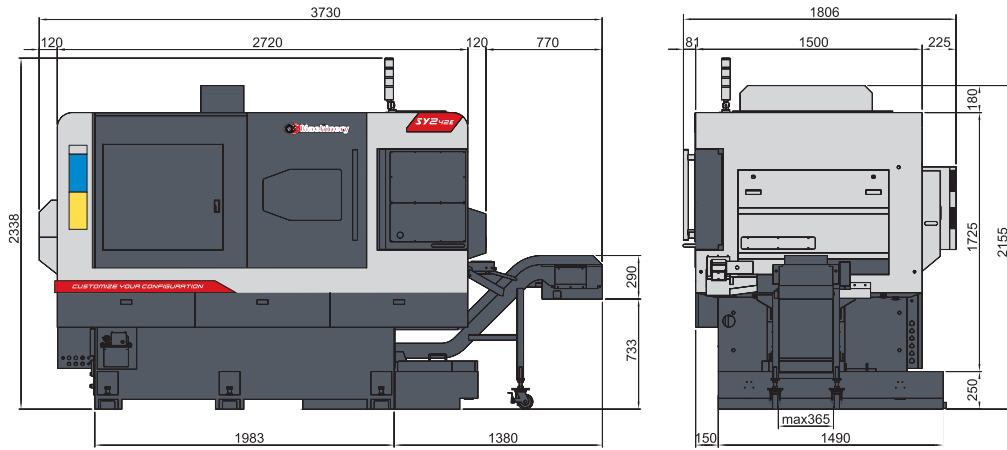
This machine offers the flexibility to operate with or without a guide bush, allowing for optimal machining conditions. The multiple tooling system enhances machining flexibility, enabling milling, drilling, and tapping both at the front and rear, thereby facilitating highly efficient parts processing in a single cycle.

- 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))



SY2-42E

Machine Layout



Unit: mm

Specifications

Direct Drive Model		SY2-42E	
Control Unit	Controller	SYNTEC	MITSUBISHI
Capacity	Max. Bar Feeding Dia.	Ø42 mm	
	Max. Turning Length Per Chuck	320 mm (Guide Bush) / 110 mm (Non Guide Bush)	
	X1 / X2-Axes Travel	220 / 380 mm	
	X1 / X2-Axes Servo Motor	X1: 1.5kw / X2: 1.0kw	
	Z1-Axis Travel	320 mm (Guide Bush) / 460 mm (Non Guide Bush)	
	Z2-Axis Travel	464.5 mm	
	Z1 / Z2-Axes Servo Motor	1.0kw	Z1: 1.5kw / Z2: 1.0kw
	Y1 / Y2-Axes Travel	620 / 130 mm	
	Y1 / Y2-Axes Servo Motor	Y1: 1.5kw / Y2: 0.75kw	
	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	
	Max. Turning Dia.	Ø42 mm	
	Max. Spindle Speed	6000 rpm	
	Center Height	1100 mm	
	Collet of Spindle	TRB-42	
	Spindle Servo Motor	11 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	
	Max. Turning Dia.	Ø42 mm	
	Max. Sub Spindle Speed	6000 rpm	
	Collet of Sub Spindle	TRB-42	
	Sub Spindle Servo Motor	11 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	1.5kw	
	Max. Radial Live Tooling Speed	6000 rpm	
	Axial Live Tooling Size / Number	ER-20 / 4 pcs	
	Axial Live Tooling Servo Motor	1.0 kw	1.5 kw
	Max. Axial Live Tooling Speed	6000 rpm	
	Axial Live Tooling Size / Number	ER-20 / 8 pcs	
	Axial Live Tooling Servo Motor	2.2 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	280L	
	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.

