

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.

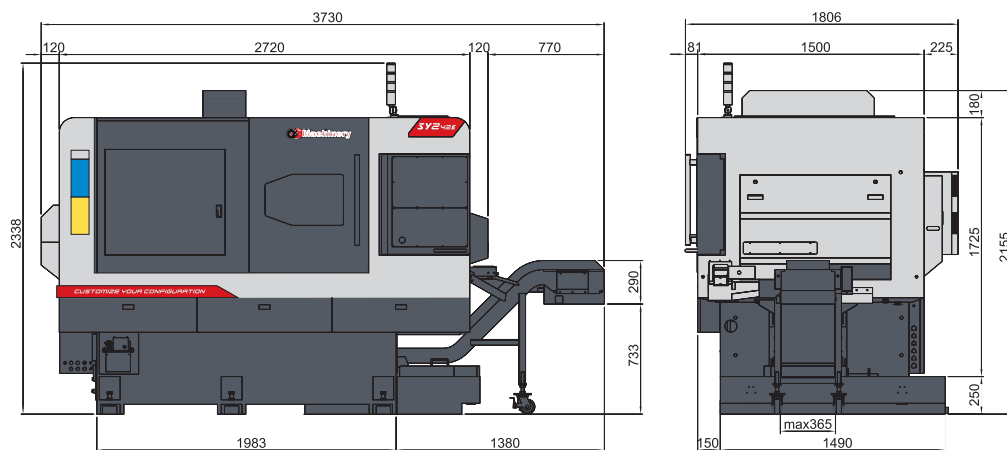
This machine offers the flexibility to operate with or without a guide bush, allowing for optimal machining conditions. The multiple tooling system enhances machining flexibility, enabling milling, drilling, and tapping both at the front and rear, thereby facilitating highly efficient parts processing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



Specifications

| Direct Drive Model | | SY2-42E | |
|---------------------------|--|---|-----------------------|
| Control Unit | Controller | SYNTEC | MITSUBISHI |
| Capacity | Max. Turning Length Per Chuck | 320 mm (Guide Bush) / 110 mm (Non Guide Bush) | |
| Axes Specification | 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 | |
| Main Spindle | Min. Input Unit | 0.001 mm | |
| | Max. Turning Dia. | Ø42 mm (Guide Bush) / Ø51 mm (Non Guide Bush) | |
| | 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 | |
| Sub Spindle | 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° | |
| Main Spindle Live Tooling | 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 | |
| Sub Spindle Live Tooling | 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 | 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 | 280L | |
| 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.



Machinery
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