

# L-46SDY

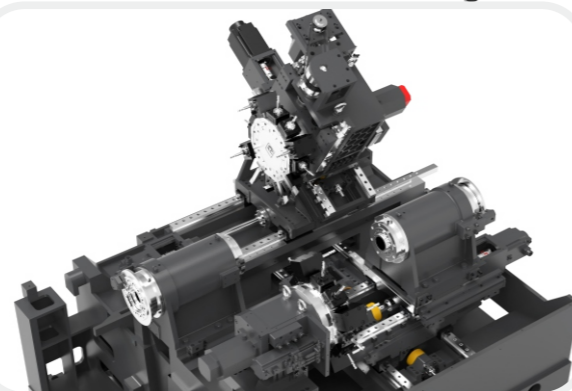
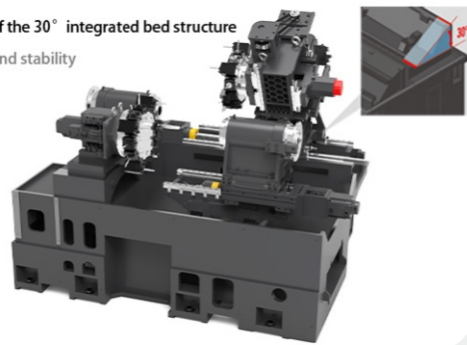
## CNC Horizontal Turning & Milling Machine

— Dual spindle, Dual turret

- ⚙️ Machining  $\Phi 20$ - $\Phi 130$ mm, length 2.5-130mm workpiece.
- ⚙️ The main machine adopts the whole one slant one flat bed structure, perfect rigidity and stability.
- ⚙️ Complete various machining processes in single clamping.



Characteristics of the 30° integrated bed structure  
Perfect rigidity and stability



### Standard Configuration

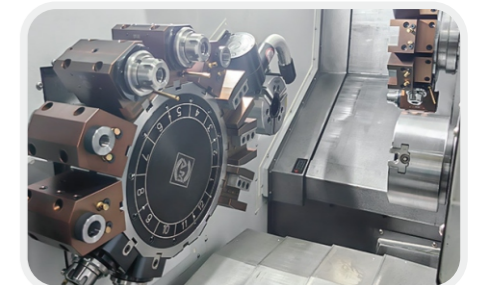
1. SYNTEC/FANUC control system
2. Motorized spindle
3. Hollow hydraulic 3-jaw chuck
4. 12-station power turret×2
5. Cooling system
6. Cabinet heat exchanger
7. Automatic lubrication system

### Optional Configuration

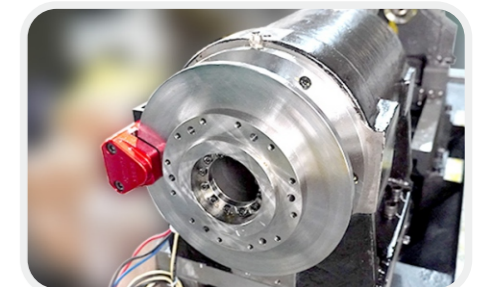
- Automatic bar feeder
- Automatic chip conveyor
- High pressure water pump
- Oil mist collector
- Oil-water separator
- Automatic tool setting gauge
- Parts receiver

### Technical Specification :

		L-46SDY
Capacity	Max.swing diameter over bed(mm)	$\Phi 570$
	Max.swing diameter on the saddle(mm)	$\Phi 320$
	Max.machining diameter(mm)	$\Phi 130$
	Max.machining length(mm)	130
Travel	X1/X2 axis travel(mm)	200/300
	Y1 axis travel(mm)	$\pm 50$
	Z1/Z2 axis travel(mm)	320/300
Main &Sub motor spindle	Chuck size(inch)	6"
	Max.speed(rpm)	6000
	Spindle nose	A2-5
	Motor spindle power(kW)	11.7/17.5
Milling spindle	Spindle through-hole size(mm)	$\Phi 57$
	Max.bar diameter(mm)	$\Phi 45$
	Max.speed(rpm)	4000
	Drill capacity(mm)	$\Phi 16 \times 1.5$
Feed speed	Tapping capacity(mm)	M12x1.75
	Milling spindle motor(kW)	2.3 (SYNTEC)
	Tool turret	BMT45Y + BMT45
Motor	X/Z axis rapid speed(mm/min)	18000
	Y axis rapid speed(mm/min)	10000
Cooling	Spindle motor(kW)	>11
	Cooling pump motor(kW)	0.75
Electricity/Gas	Water tank capacity(L)	130
	Power capacity(kVA/kW)	64kVA/44.75kW
Size/Weight	Air source(L/min)	0.5Mpa/100
	Distance from spindle center to ground(mm)	1070
	Machine dimension (LxWxH)(mm)	2410x2210x2060
	Weight(kg)	5000



Dual spindle, dual turret, high efficiency.



Motorized spindle, high precision and strong rigidity.



Large diameter high-speed silent ball screw, and roller guide way.

## Mechanical structure

L-46SDY adopts full closed-loop control, with dual spindle, dual tool holder, grating ruler, and dual channel design, which can easily carry various power heads and turning tools

## L-46SDY CNC TURNING AND MILLING (DUAL SPINDLE, DUAL TURRET)

### Synchronous servo motorized spindle

The joint surface between the spindle and the bed adopts, a paired scraping process to ensure stronger contact stiffness. It adopts a large span symmetrical structure, with small thermal drift and stable accuracy.

### Direct connected orthogonal tool holder

12 station BMT45 servo tool holder.  
Y2 axis stroke 100mm.  
Repetitive positioning accuracy within 0.002.  
Adopting a unique honeycomb reinforcement structure.  
With super strong load-bearing capacity.

### Turret

The turret adopts hydraulic locking, arc tooth positioning, and servo tool changing design principles. The turret adopts oil and gas lubrication for the milling shaft, eliminating the long warm-up caused by prolonged operation of the turret milling shaft.

### Chuck

The chuck is selected as a 6-inch hydraulic three jaw hollow chuck, which has the function of discharging water from the center of the chuck, improving the convenience of operation.

### Synchronous belt orthogonal Y-tool holder

Adopting a box in box four guide rail support structure, with stronger rigidity 12 station BMT45 servo tool holder.

### XYZ screw guide rail

Adopting imported and stretched screw rods from abroad to eliminate reverse clearance, resulting in more stable accuracy. The guide rail adopts roller guide way, which has stronger rigidity.

### Bed/Saddle

All are made of high-density cast iron material, which is poured and formed in one-pass. The sliding saddle is a triangular structure, making the entire structure more rigid and dynamic performance more stable.

### Spindle component II

Adopting an electric spindle, the structure is more compact, with the box body being an integrated assembly structure to ensure stronger rigidity.

