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CB-36Y2M DIRECT DRIVE

FIXED HEAD CNC LATHES

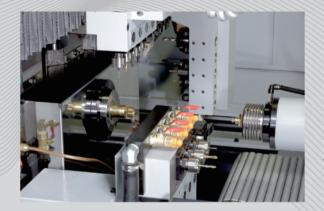
Solve your complex precision parts machining problem.

- + Y2 Axis for Back Machining
- + Back Milling Device
- + Chip Breaking Functionality
- + Sliding Head without Guide Bush

Make Compilcated Parts In One Operation

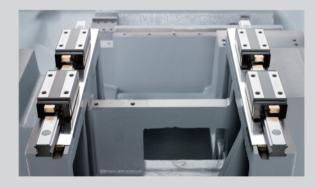
Enhanced roundness and accuracy are achieved, as there are no gears or belts causing vibrations.

- + Ø36 mm bar capacity
- Collet chucking system
- Sliding headstock design
- A combination of main and sub-spindle
 Finished parts catcher and conveyor
- + PC-based control
- + Y2 Axis for Back Machining
- + Linear guides on axes
- + X\Y\Z-axis rapid traverses 30m/min



A Most Versatile CNC Lathes

The CB will fully meet your expectations. No matter what operation-turning, milling, drilling, tapping, cutting and back maching, the CB does it all in one setup. It can bring higher efficiency and greater profitability.



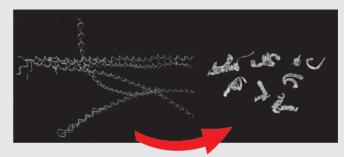
Roller-type Linear Guide

Without Chip Breaking

Each axes are moves by two precision roller type linear guides, that are combined with extra large span between linear guides for outstanding stability and positioning accuracy.

Powerful Chip Breaking Functionality

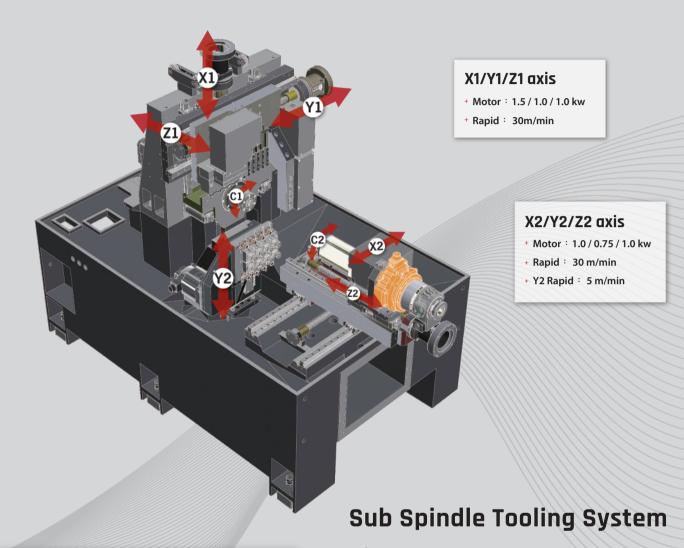
Chip Breaking functionality solves the problem of chips entangling around the cutting tool and workpiece, reducing the need for tool retraction to clear chips significantly, thus enhancing machining efficiency.



With Chip Breaking

The Front Side Tooling System

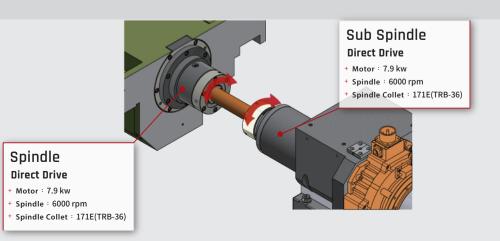
The front side features multiple tools suitable for complex parts, with 4+3 live tools driven by a servo motor, accommodating 6 O.D. tools and 5 I.D. tools.

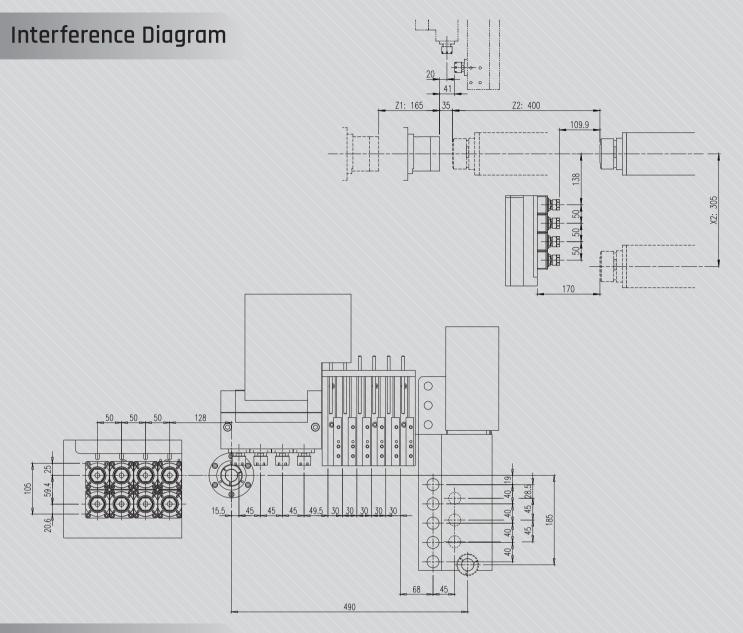


Back side Machining

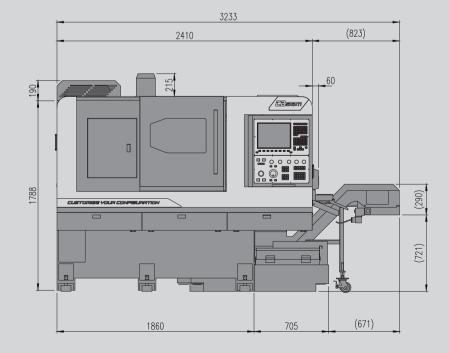
- Back milling device is capable of performing milling, drilling and tapping operations for the back side of a part.
- Maximum live tooling speed is 6,000 rpm
- 8 live tools are driven by 2.2 kw servo motor

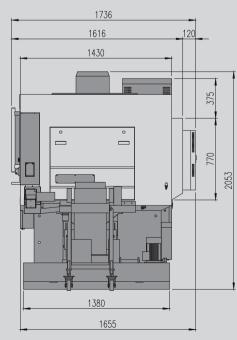
The sub spindle tooling system provides 8 ER-20 live tools, it can be converted into internal turning tools or fixed tool holders. Combined with the sub spindle's Y2 and C-axis functions, it enables more complex turning and milling operations.





Machine Dimensions





Machine Specifications	CB-36M	CB-36Y2M
Capacity		
Controller	Syntec Mitsubishi	Syntec
Axis Travel		
X1 / X2-axes travel	185 / 290 mm	185 / 305 mm
X1 / X2-axes servo motor	1.5 / 1.0 kw	1.5 / 1.0 kw
Z1/Z2/Y1/Y2 -axes travel	165/ 285/ 490 / - mm	165 / 400 / 490 / 105 mm
Z1/Z2/Y1/Y2-axes servo motor	Z1/Z2:1.0 / Y1:1.0 / - kw	1.0 /1.0 /1.0 /0.75 kw
X / Y / Z-axes rapid traverse	30 m/min	30m/min
Y2 Rapid travel speed	-	5 m/min
Spindle		
Spindle Bore	Ø43 mm	Ø43 mm
Max. bar feeding dia.	Ø36 mm	Ø36 mm
Spindle servo motor	7.9 kw	7.9 kw
Max. spindle speed	6000rpm	6000 rpm
Collet of spindle	TRB-36	TRB-36
C-axis index positioning	0.001°	0.001°
No. of O.D. turning tool	6 pcs (Op: 5 pcs)	6 pcs (Op: 5 pcs)
O.D. turning tool size	□ 12 mm (Op: □ 16 mm)	☐ 12 mm (Op: ☐ 16 mm)
No. of I.D. turning tool	5 pcs	5 pcs
I.D. turning tool size	Ø25mm	Ø25mm
Sub Spindle		
Sub Spindle Bore	Ø43 mm	Ø43 mm
Max. bar feeding dia.	Ø36 mm	Ø36 mm
Sub spindle servo motor	7.9 kw	7.9 kw
Max. sub spindle speed	6000 rpm	6000 rpm
Collet of sub spindle	TRB-36	TRB-36
C-axis index positioning	0.001°	0.001°
I.D. turning tool size	Ø25 mm	Ø25 mm
Spindle Live Tooling		
No. of Radial live tooling	4 pcs	4 pcs
Radial tooling size	ER-20	ER-20
Radial live tooling servo motor	1.5 kw	1.5 kw
Max. radial live tooling speed	6000 rpm	6000 rpm
No. of Axial live tooling	3 pcs	3 pcs
Axial tooling size	ER-20	ER-20
Axial live tooling servo motor	0.75 kw	0.75 kw
Max. axial live tooling speed	6000 rpm	6000 rpm
Sub Spindle Live Tooling	······································	
No. of Axial live tooling	4 pcs	8 pcs
Axial tooling size	ER-20	ER-20
Axial live tooling servo motor	0.75 kw	2.2 kw
Max. axial live tooling speed	6000 rpm	6000 rpm
Hydraulic & Coolant Motor		
Hydraulic & Collant Motor Hydraulic motor	1 LID / 0.75 la	1 UD / 0.75 la
Hydraulic motor Spindle upper flush pum	1 HP / 0.75 kw	1 HP / 0.75 kw
	1 HP / 0.75 kw	1 HP / 0.75 kw
Tool coolant pump	1 HP / 0.75 kw	1 HP / 0.75 kw
Tank Capacity		
Hydraulic tank	46 L	46 L
Coolant tank	240 L	240 L
Machine Specification		
Voltage stabilizer / Transformer	220 V / 20 KVA	220 V / 31 KVA
Machino sizo (L x W x H) (includos chin convoyor)	2020 v 1612 v 2151mm	2222 v 1655 v 2052mm

Standard Accessories

Machine size (L x W x H) (includes chip conveyor)

Machine N.W. (includes chip conveyor)

- + Tool Kit & Box
- + Drilling Shaft ER-20
- + Collet Chuck Device
- + Auto Bar Feeder Interface
- + Finished Parts Catcher & Conveyor
- + Auto Power Breaker
- + Radial Live Tooling Device
- + Axial Live Tooling Device

- + Back Side Live Tooling Device
- + Sub Spindle Finished Parts Ejector

3029 x 1612 x 2151mm

4000 kg

- + Air Conditioner for Electrical Cabinet
- + Cutting Fluid Pump
- + Cutting Fluid Inspection Device
- + Sub Spindle Air-blowing Device

Optional Accessories

+ Screw Type Chip Conveyor & Cart

3233 x 1655 x 2053mm

4000 kg

- + Steel Belt Chip Conveyor & Cart
- + Voltage Stabilizer / Transformer
- + High Pressure Coolant Device
- + Gripper Device
- + Bar Feeder
- + Oil Skimmer
- + Oil Mist Collector