

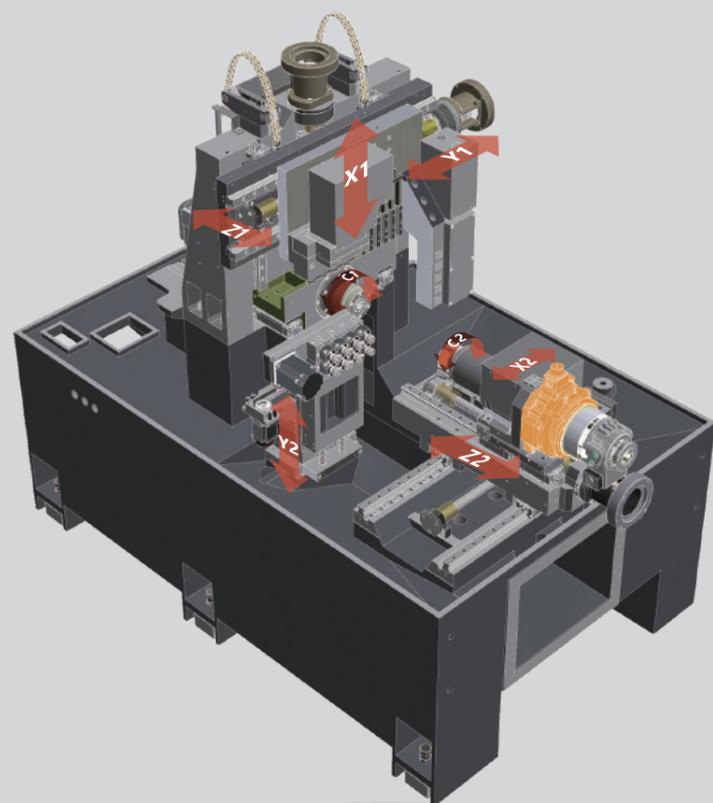
CB-36Y2M DIRECT DRIVE

SLIDING HEAD CNC LATHES

- + Back Milling Device
- + Sliding Head Without Guide Bush
- + Y2 Axis With Live Tooling Function
- + Chip Breaking Functionality

One-piece Casting Flat Bed Design

Back milling device Y2 Axis With 8 Live Tooling Function.

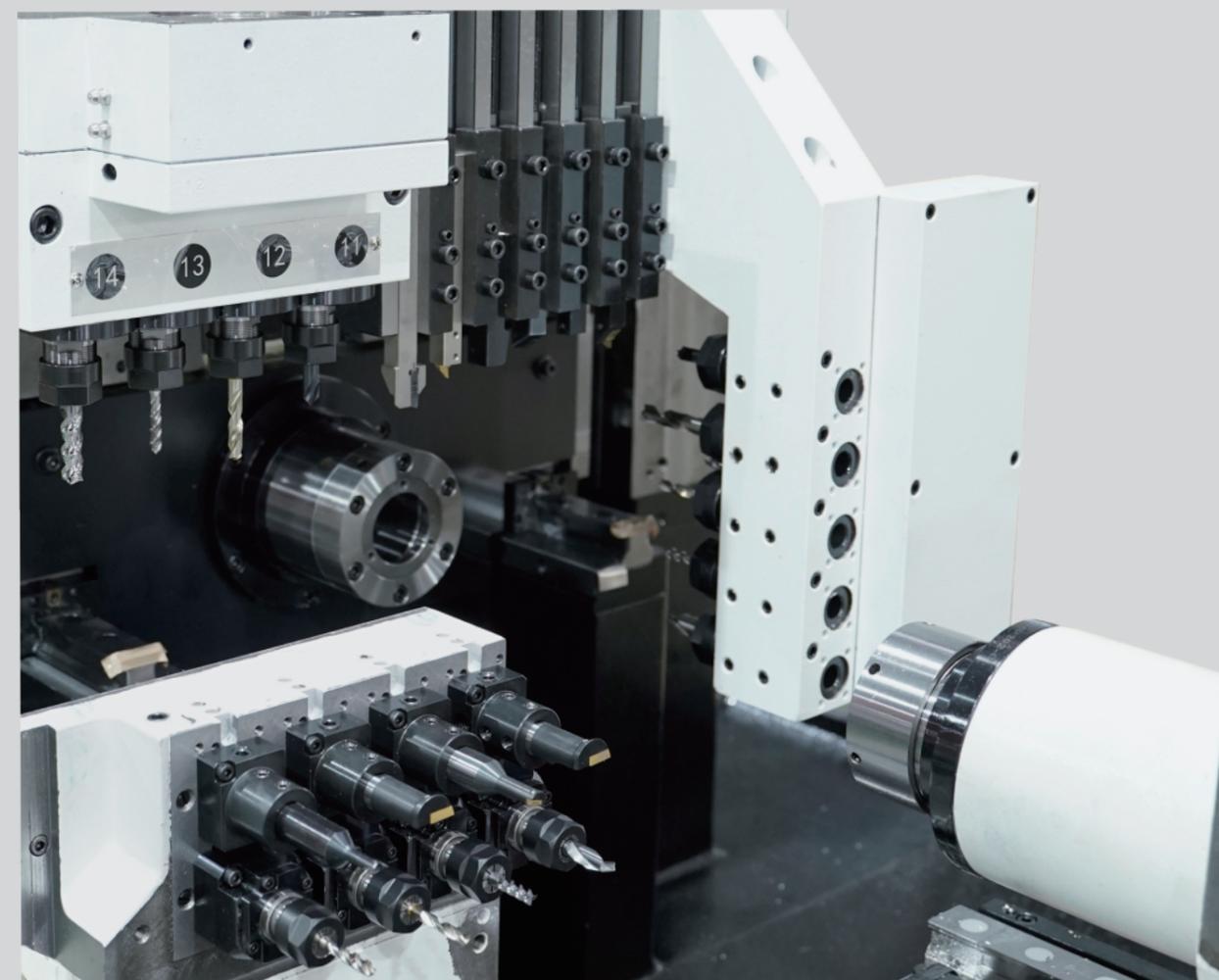


SPINDLE

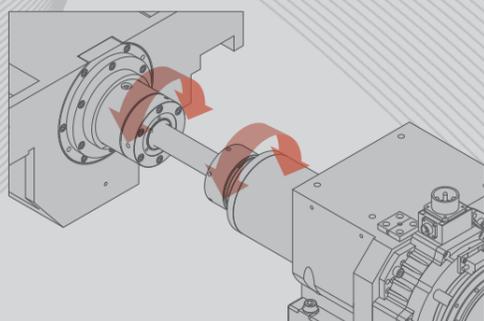
Front side multiple tools are suitable for complex parts. 4+3 live tools driven by servo motor. It can be fitted with 6 O.D. tools and 5 I.D. tools.

SUB SPINDLE

The tooling system features 8 live tool stations (ER-16 collet), driven by a 0.75kW servo motor. These stations are interchangeable with internal turning tools or fixed tool holders. Maximum rotational speed of 6,000 rpm, and when integrated with the Y2 and C-axis functions.



Direct Drive



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

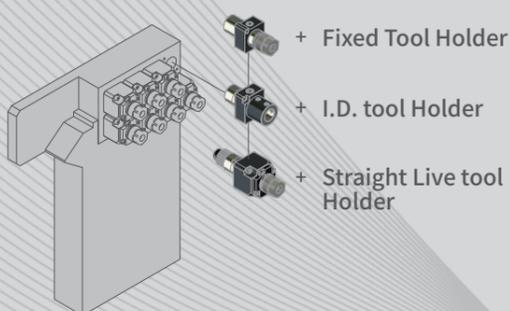
Spindle

- Direct Drive
- + Motor: 7.9 kw
- + Spindle: 6000 rpm
- + Collet: 171E (TRB-36)

Sub Spindle

- Direct Drive
- + Motor: 7.9 kw
- + Spindle: 6000 rpm
- + Collet: 171E (TRB-36)

Y2 Axis With Live Tooling Function



The system is equipped with 8 positions of 0.75kW, ER-16 live tool holders to satisfy diverse machining requirements.

Roller-type Linear Guide



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

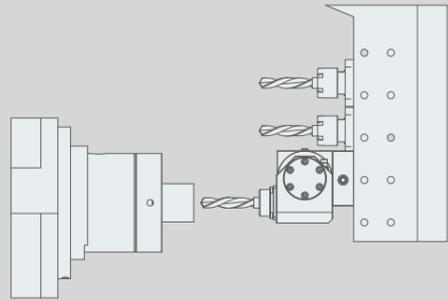


Without Chip Breaking

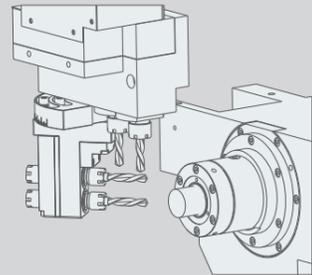
With Chip Breaking

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.

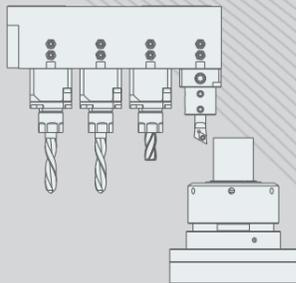
Processing Variation Performance



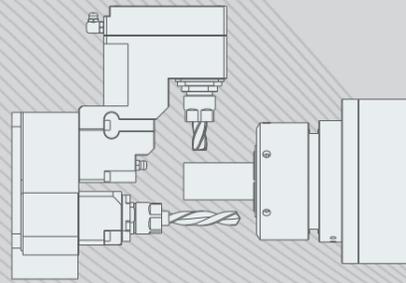
End milling at an angle



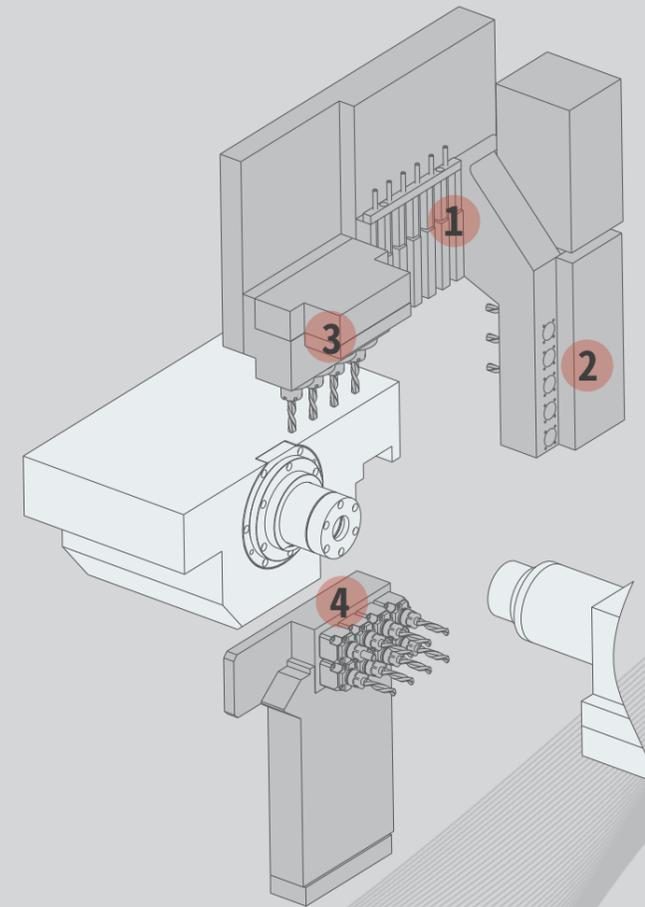
Side milling at an angle



Rear-end O.D. turning



Rear-end milling



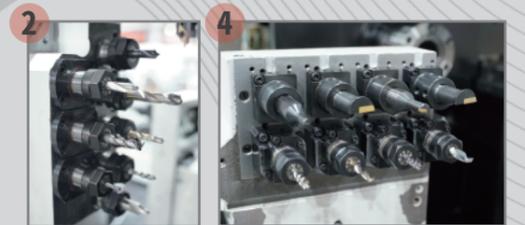
Spindle Tooling System

- 1 O.D. Tooling System(□12mm)*6
- 2 I.D. Tooling SystemØ25*5
No. /size of axial live tools*3
- 3 No. / size of radial live tools *4

Sub Spindle Tooling System

- 4 No. /size of axial live tools*8
(ER-16、Ø22)

Upon request, the back milling device is available to mount with O.D. or I.D. tool.

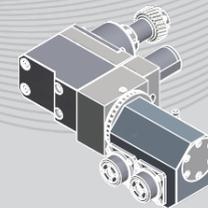


Applications

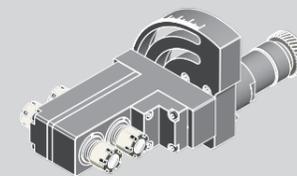
- + Automotive, motorcycle and bicycle parts
- + Electronic and electrical parts
- + Sanitary and toilet wares
- + Instrument parts
- + Pneumatic and hydraulic parts
- + Hardware accessories



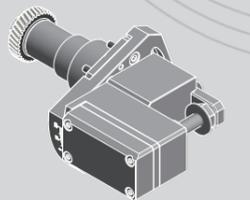
Spindle Tooling (OP)



spindle milling unit(Face milling)



spindle milling unit(side milling)



Gear Hobbing tool holder

Sub Spindle Tooling (OP)



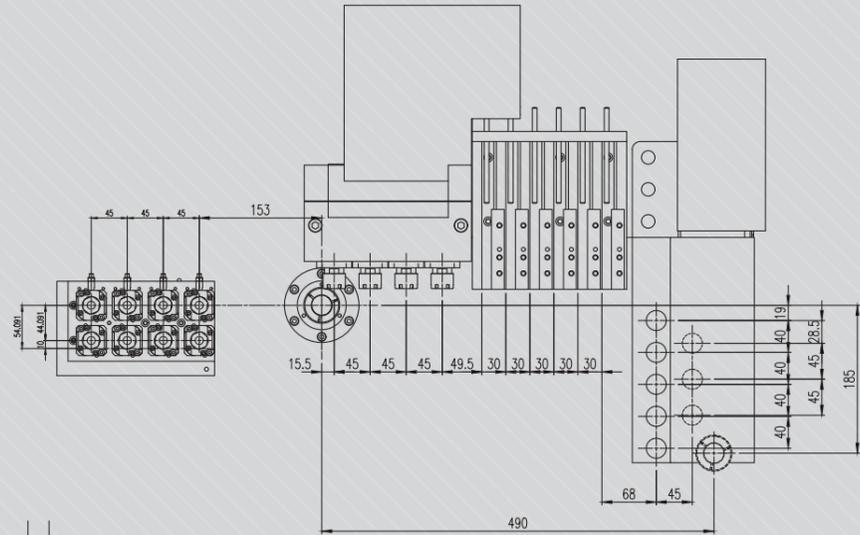
Drilling/milling unit



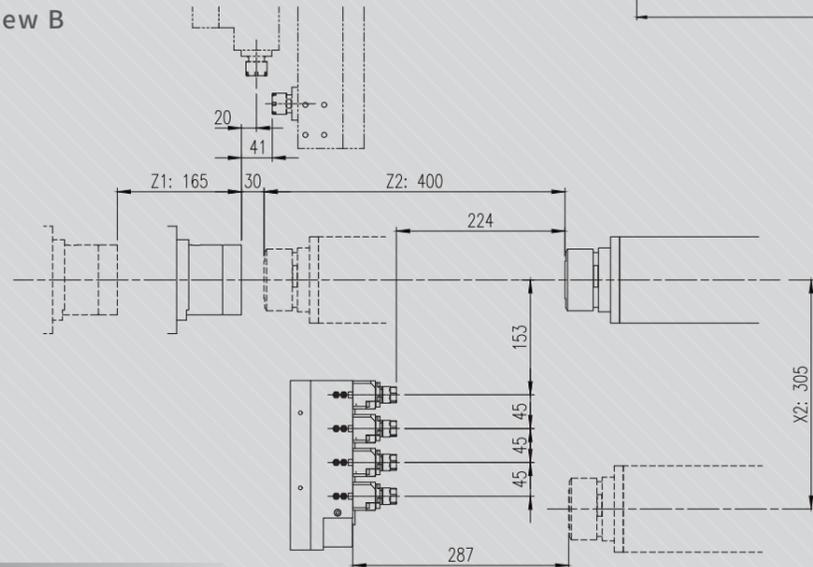
Cross drilling/milling unit

Interference Dagram

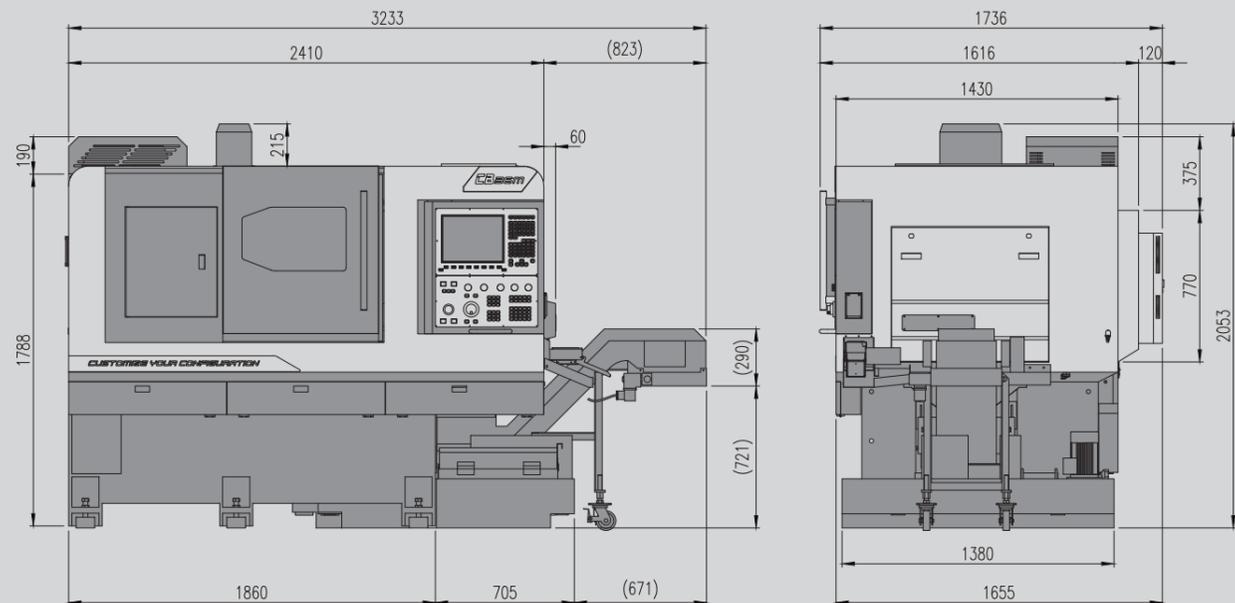
+ View A



+ View B



Machine Specifications



Machine Specifications

Control Unit	CB-36Y2M
Controller	SYNTEC
Axis Travel	
X1/X2-axis travel	185 / 305 mm
X1/X2-axis servo motor	1.5 / 1.0 kw
Y1/Y2/Z1/Z2-axis travel	490 / 54 / 165 / 400 mm
Y1/Y2/Z1/Z2-axis servo motor	1.0 / 0.4 / 1.0 / 1.0 kw
X/Y/Z Rapid travel speed	30 m/min
Y2 Rapid travel speed	5 m/min
Min. input unit	0.001 mm
Main Spindle	
Spindle Bore	Ø43 mm
Max. bar feeding dia.	Ø36 mm
Spindle servo motor	7.9 kw
Spindle max. rpm	6000 rpm
Center height	1072 mm
Collet of spindle	TRB-36
C Axis Index Positioning	0.001°
No. of O.D. turning tool	6(Option:5)
O.D. turning tool size	□12 mm (Option:□16mm)
No. of I.D. turning tool	5 pcs
No. of I.D. turning tool size	Ø25
Spindle Live Tooling	
No. of Radial live tool	4 pcs
No. of Radial live tool size	ER-20
Radial Live Tooling Motor Power	1.5 kw
Radial Live Tooling Max. speed	6000 rpm
No. of Axial live tool	3 pcs
No. of Axial live tool size	ER-20
Axial live tooling motor power	0.75 kw
Axial live tooling max. speed	6000 rpm
Sub Spindle	
Sub Spindle Bore	Ø43 mm
Max. bar feeding dia.	Ø36*80 mm (Parts ejector)
Sub spindle servo motor	7.9 kw
Sub spindle max. rpm	6000 rpm
Collet of spindle	TRB-36
C Axis Index Positioning	0.001°
I.D. turning tool size	Ø16 / ER-16
Sub Spindle Live Tooling	
No. of Axial live tool	8 pcs
No. of Axial live tool size	ER-16
Axial live tooling servo motor	0.75 kw
Axial live tooling max. speed	6000 rpm
Hydraulic&Coolant pump	
Hydraulic motor	1 HP/ 0.75kw
Spindle upper flush pump	1 HP/ 0.75kw
Tool coolant pump	1 HP/ 0.75kw
Coolant tank Capacity	240 L
Machine	
Voltage stabilizer / Transformer	220V/31 KVA
Machine Size (LxWxH)(includes chip conveyor)	3233×1655×2053 mm
Machine N.W. (includes chip conveyor)	4000 kg

Standard Accessories

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

Optional Accessories

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