



CNC TURN & MILL LATHES

Solve your complex precision parts machining problem.

+ Back Milling Device

Machinery Machinery

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Make Complicated Parts in One Operation

Dramatically reduced machining time and improved quality

- + Ø32/36 mm bar capacity.
- + Collet chucking system.
- + Sliding headstock design.
- + A combination of main and sub-spindle.

- + PC-based control.
- + Linear guides on axes.
- + X, Y, Z-axis rapid traverses 30m/min.
- + Finished parts catcher and conveyor.



A Most Versatile CNC Lathe

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



Applications

- + Automotive, motorcycle and bicycle parts
- + Electronic and electrical parts
- + Instrument parts
- + Pneumatic and hydraulic parts

- + Sanitary and toilet wares
- + Hardware accessories
- + Any other precision parts



Free Cutting Steel



Aluminium



Free Cutting Steel



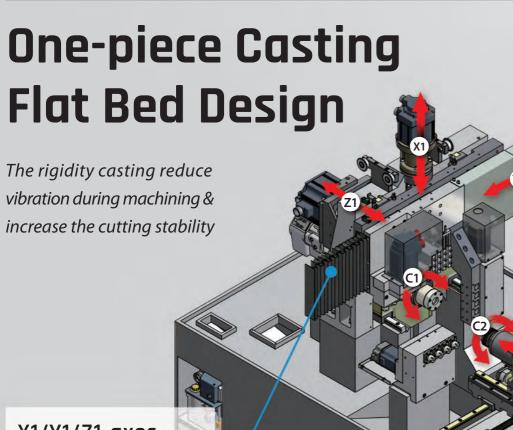
Brass

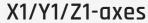


Bra

Brass

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- + Motor: 1.3kW/0.85kW/0.85kW
- + Rapid traverse: 30m/min

X2/Z2-axes

- + Motor: 0.85kW/0.85kW
- + Rapid traverse: 30m/min

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.

Sliding Head without **Guide Bush**

When machining without guide bush, is ideal for making relatively short parts

Saves more production costs and more convenient to operation.

- + Faster Setups.
- + Shorter Remnants.
- + No Need to Use Polished Round Bar.

Increased efficiency

Lower production cost

+ Greater profitability

Superior Spindles

Main Spindle **Belt-drive Type Spindle**

- + Motor: 7.5kW
- + Spindle speed: 6,000 rpm
- + Clamping system: Collet

Collet Chucking System

+ The collet chucking system use 164E or 171E collet.



+ Spindle speed: 6,000 rpm

+ Clamping system: Collet

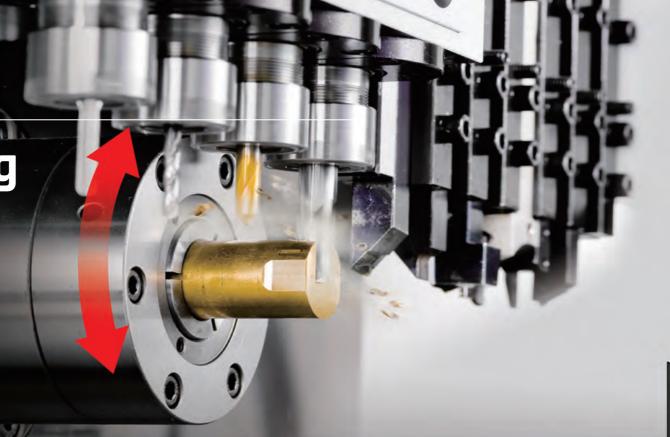
Collet Chucking System

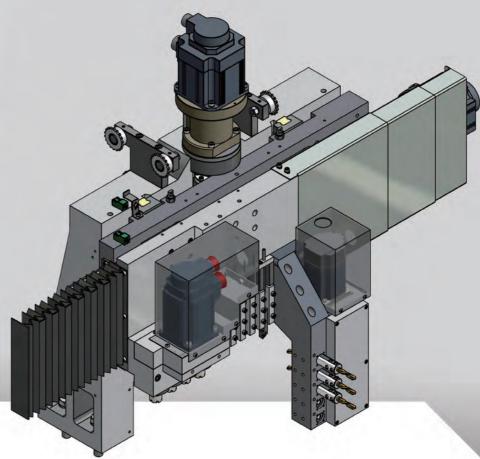
+ The collet chucking use

164E collet.

FLEXIBLE MACHINING

Multiple Tooling
Systems Have
Broad Cutting
Application

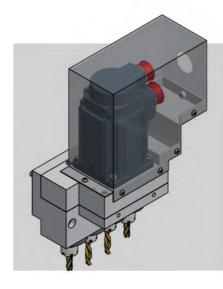






The Front Side Machining

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

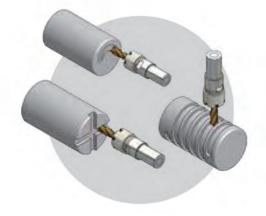


Radial Milling Device

- + The radial milling device is mounted at the top side of the main spindle.
- + 4 live tools are driven by a 1.5kW motor.
- + Maximum live tooling speed is 6000rpm.

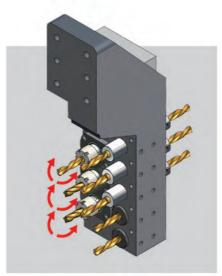


20x33 mm Steel



C-axis Contouring Capability

+ 0.001 mm extra high indexing resolution ensures high precision contouring and positioning.



Axial Milling Device

- + The axial milling device consists of 3 live tools and 5 turning tools, and it is mounted in front of the main spindle.
- + Live tooling are driven by a 0.75kW servo motor.
- + Maximum live tooling speed is 6000rpm.



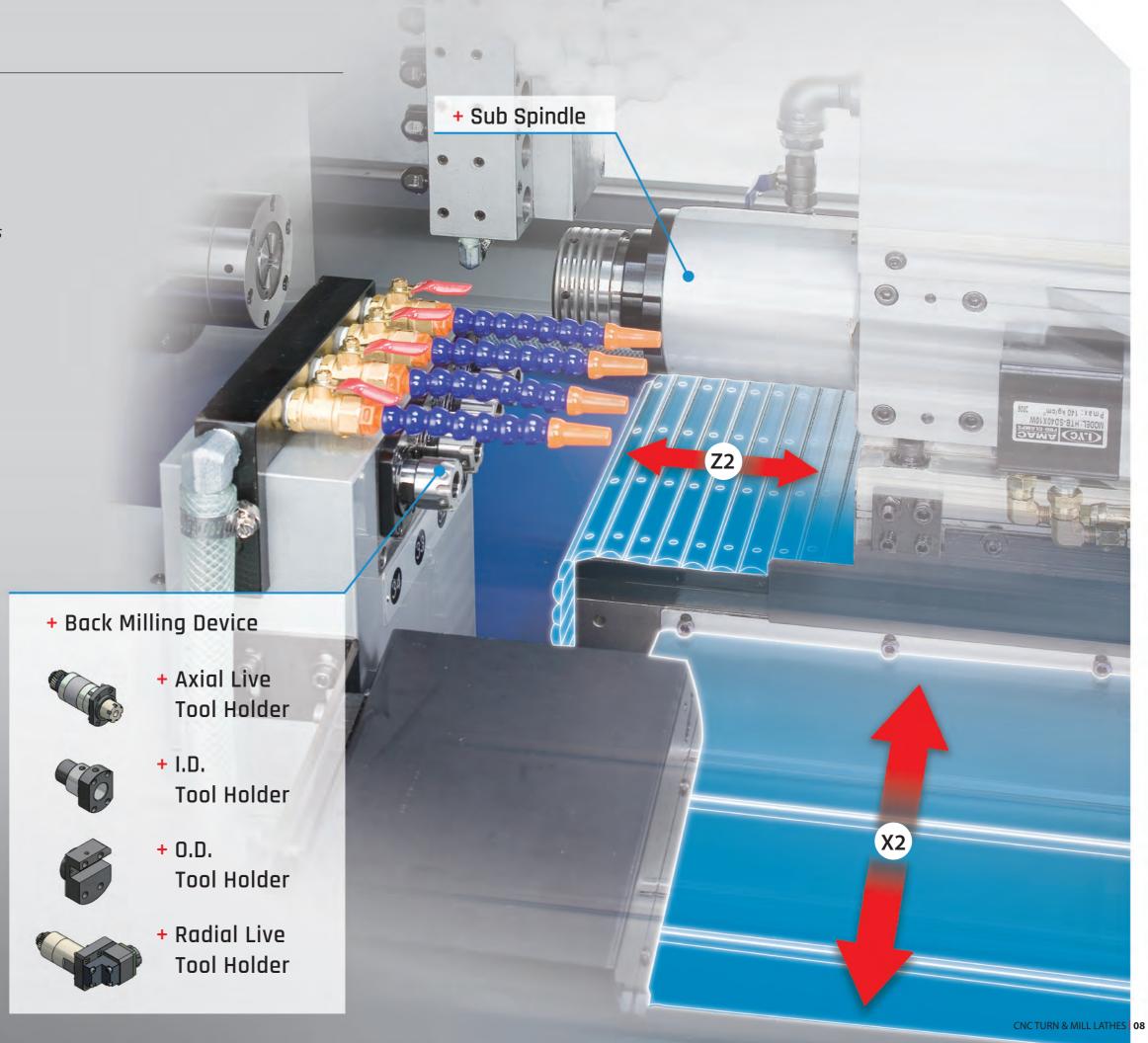
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The Back Side Machining

The back side machining mechanism consists of a sub-spindle head & a back milling device

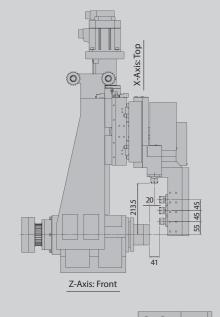
Sub Spindle Assembling

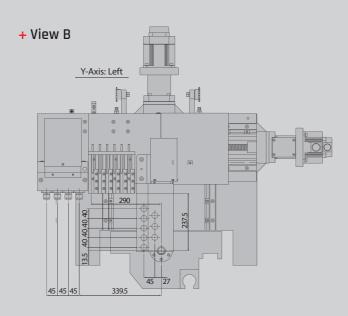
- + Back milling device is capable of performing milling, drilling and tapping operations for the back side of a part.
- + Maximum live tooling speed is 6000rpm.
- + 4 live tools are driven by 0.75kW servo motor.
- + Changing the tool holder is done easily by simply loosening 4 lock screws.
- + Upon request, the back milling device is available to mount with O.D. or I.D. tool.



Interference Diagram

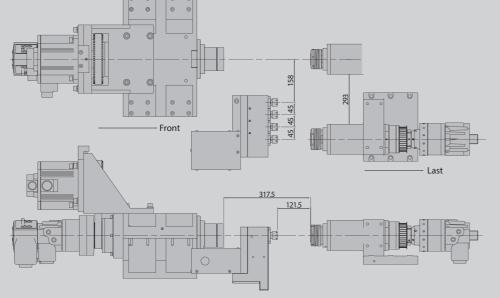
+ View A



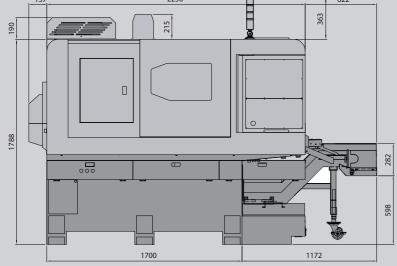


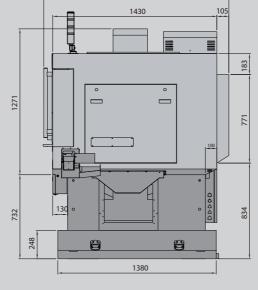
+ View C

+ View D



Machine Dimensions





Machine Specifications

CB-36M

Capacity	CD-30W
Controller	Syntec
Axis Travel	
X1 / X2-axes travel	185 / 290 mm
X1 / X2-axes uravei	
	1.3 kW / 0.85 kW
Y / Z1 / Z2 axes travel	490 / 165 / 285 mm
Y / Z1 / Z2-axes servo motor	0.85 kW 30m/min
X / Y / Z-axes rapid traverse	30m/min
Spindle May have fooding a die	(A)(
Max. bar feeding dia.	Ø36 mm
Spindle servo motor	7.5 kW
Max. spindle speed	6000 rpm
Collet of spindle	St:TRB-36 / Op:TRB32
C-axis index positioning	0.001°
No. of O.D. turning tool	6 pcs (Op: 5 pcs)
O.D. turning tool size	□ 12 mm (Op: □ 16 mm)
No. of I.D. turning tool	5 pcs
I.D. turning tool size	Ø25
Sub Spindle	
Max. bar feeding dia.	Ø27.5 mm
Sub spindle servo motor	4.4 kW
Max. sub spindle speed	6000 rpm
Collet of sub spindle	TRB-32
C-axis index positioning	0.001°
No. of I.D. turning tool	4 pcs
I.D. turning tool size	Ø25 mm
Spindle Live Tooling	
No. of Radial live tooling	4 pcs
Radial tooling size	ER-20
Radial live tooling servo motor	1.5 kW
Max. radial live tooling speed	6000 rpm
No. of Axial live tooling	3 pcs
Axial tooling size	ER-20
Axial live tooling servo motor	0.75 kW
Max. axial live tooling speed	6000 rpm
Sub Spindle Live Tooling	
No. of Axial live tooling	4 pcs
Axial tooling size	ER-20
Axial live tooling servo motor	0.75 kW
Max. axial live tooling speed	6000 rpm
Hydraulic & Coolant Motor	
Hydraulic motor	1 HP / 0.75 kW
Spindle upper flush pum	1 HP / 0.75 kW
Tool coolant pump	1 HP / 0.75 kW
Tank Capacity	
Hydraulic tank	46 L
Coolant tank	240 L
Machine Specification	
Voltage stabilizer / Transformer	220 V / 20 KVA
Machine size (L x W x H) (includes chip conveyor)	3029 x 1612 x 2151mm
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