



Machinery

CB-32M
CB-36M
SLIDING HEAD
CNC LATHE



Make Complicated Parts Machining in One Operation!

A Most Versatile CNC Lathe

When it comes to versatility, the CB-32M from **CB Machinery** will fully meet your expectations. No matter what operation - turning, milling, drilling, tapping, cutting, side turning and back machining, the CB does it all in one operation. This means you get higher efficiency and greater profitability.

CB

CB Machinery CB-32M / CB-36M

Dramatically Reduced Machining Time and Improved Quality

- Sliding headstock design.
- A combination of main and sub-spindle.
- $\varnothing 32/36$ mm bar capacity.
- X, Y, Z-axis rapid traverses 30m/min.
- Linear ways on 5 axes.
- PC-based control.
- Collet chucking system.
- Finished parts catcher and conveyor.

Applications:

Designed for various
precision parts
machining, such as:

- Automotive, motorcycle and bicycle parts
- Electronic and electrical parts
- Instrument parts
- Pneumatic and hydraulic part
- Sanitary and toilet wares
- Hardware
- Any other precision parts





Main Tool Slide

- 11 position driven tool.
- It can be fitted with 6 O.D. or 5 O.D. tool.
- The main tool slide is suitable for turning outside diameter of workpiece.

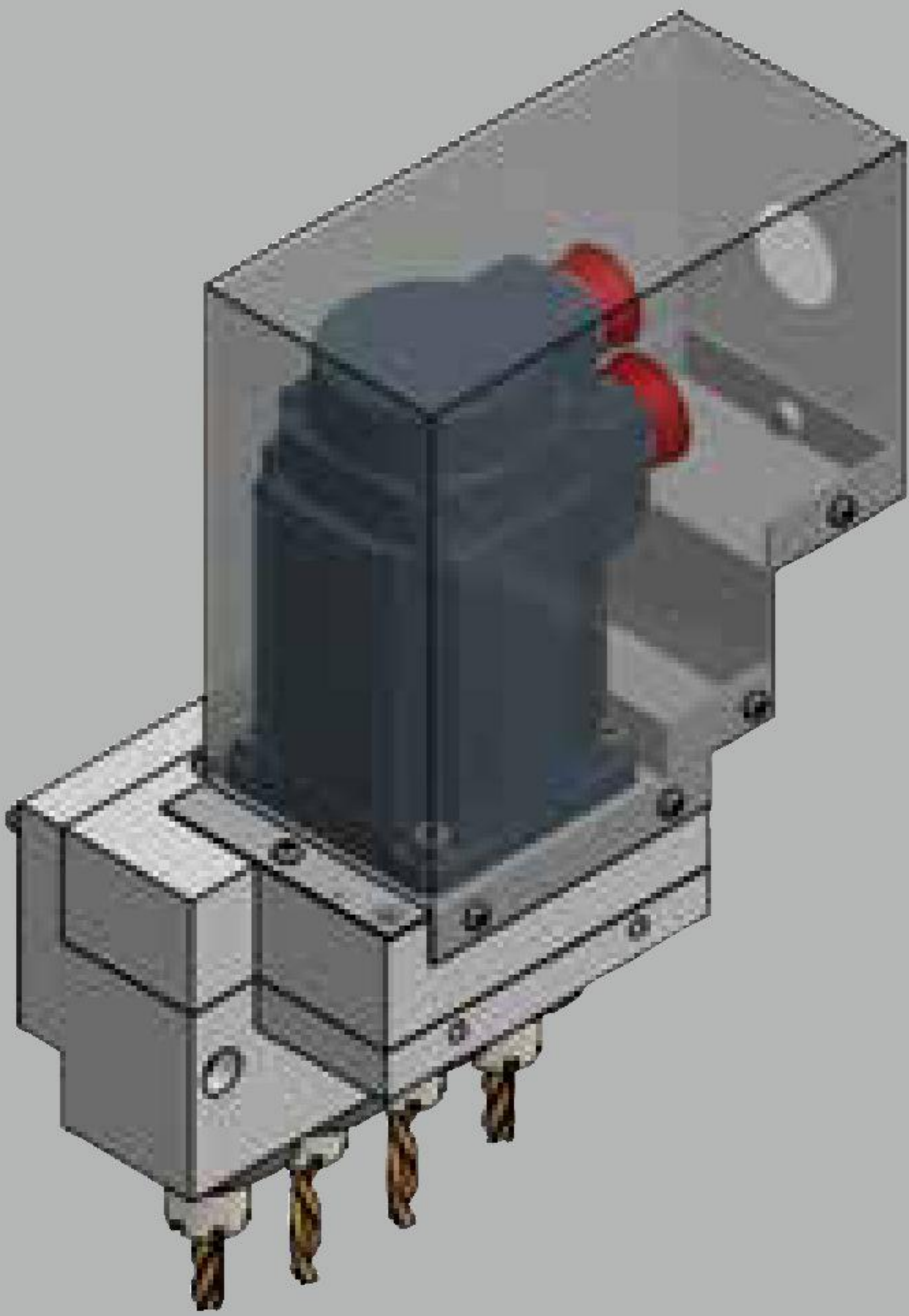
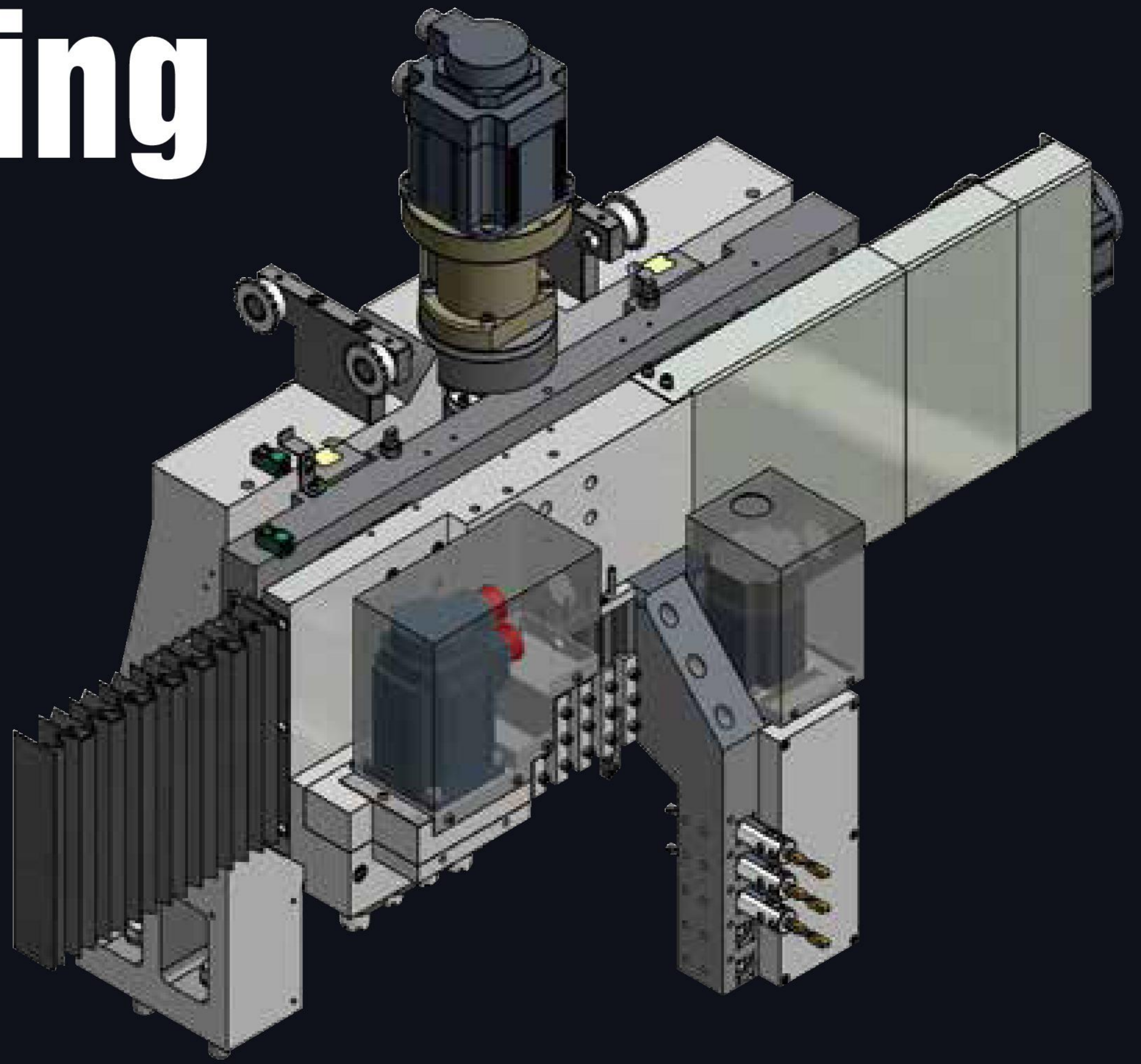


C-axis Contouring Capability

- The C-axis features contouring capability.
- Employs a 11-person driven tools by a servo motor.
- Rotating tool holders and tools are optional.
- 0.001 mm extra high indexing resolution ensures high precision contouring and indexing.

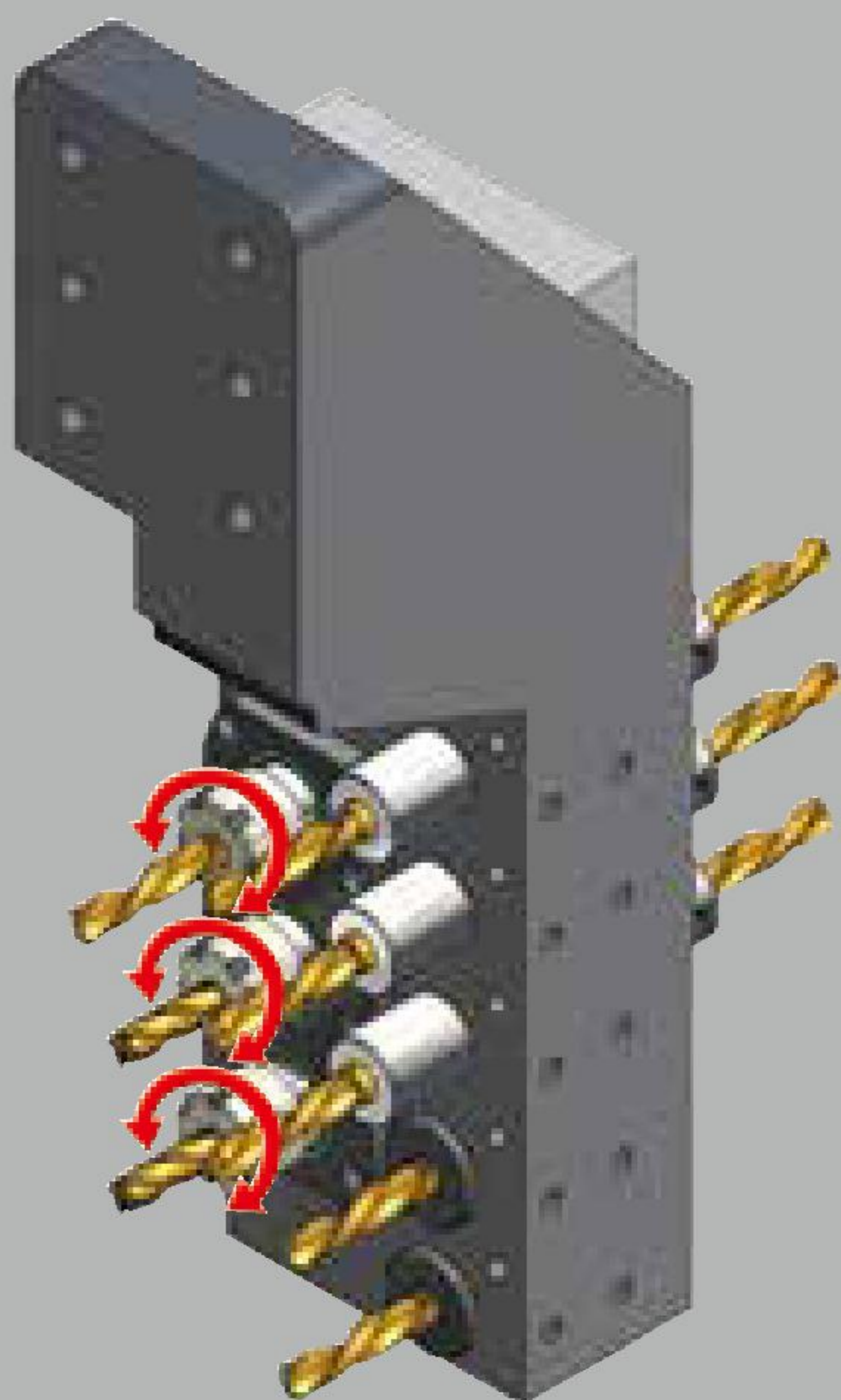


Multiple Tooling Systems for Versatile Cutting Applications



Side Milling Device

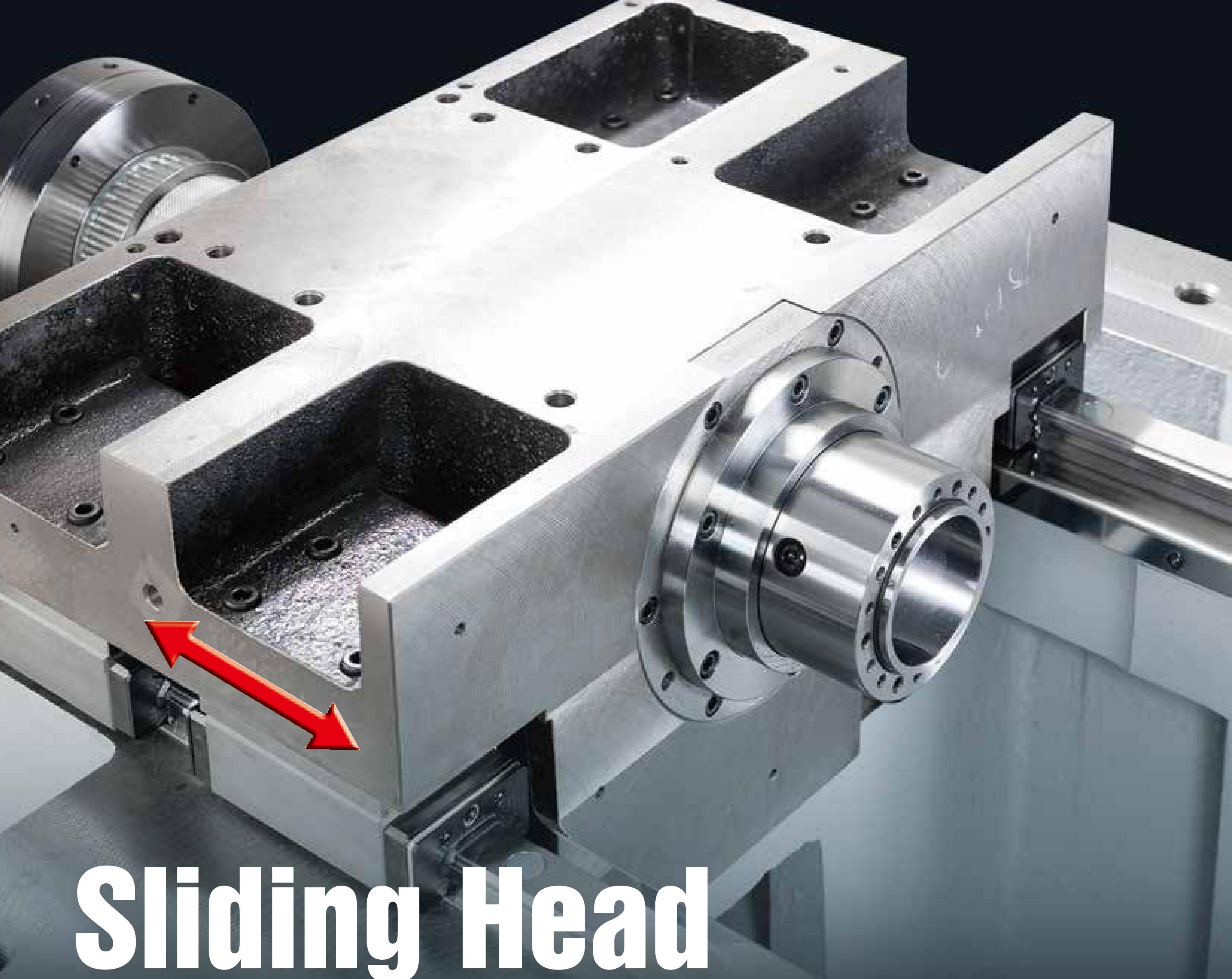
- The side milling device is mounted at top side of the headstock.
- The device is suitable for side milling, drilling and tapping operations.
- Total 4 powered tools driven by a 1.5kw servo motor.
- Max. tool speed is 6,000 rpm.



End Milling Device

- The end milling device is mounted in front of the head stock.
- The device is suitable for front end milling, drilling and tapping operations.
- Total 8 tools, among which 3 tools are powered and 5 tools are static.
- Powered tools are driven by a 0.75kw servo motor.
- Max. tool speed is 6,000 rpm.





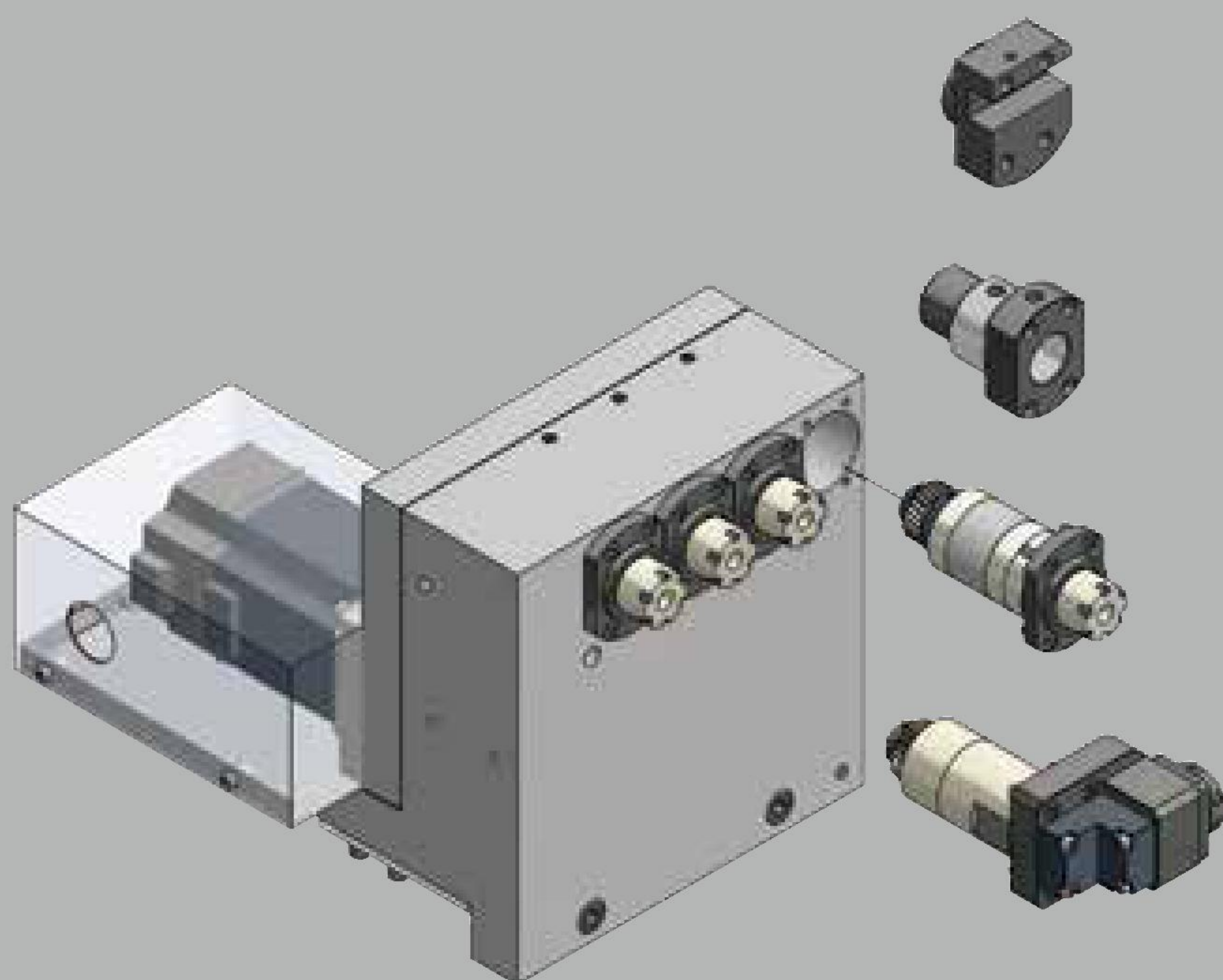
Sliding Head without Guide Bush

Increased Efficiency!
Lower Production Cost!
Greater Profitability!

Spindle head moves on two precision linear ways combined with extra large span between ways, exhibiting outstanding stability and high positioning accuracy.

Provides additional costs saving, unlike like swiss-style machines. Savings include:

- Faster Setups (No guide bushing to setup)
- Shorter Remnants (No guide bushing, remnant limited to collet length)
- Accommodate no-ground stock for saving cost.

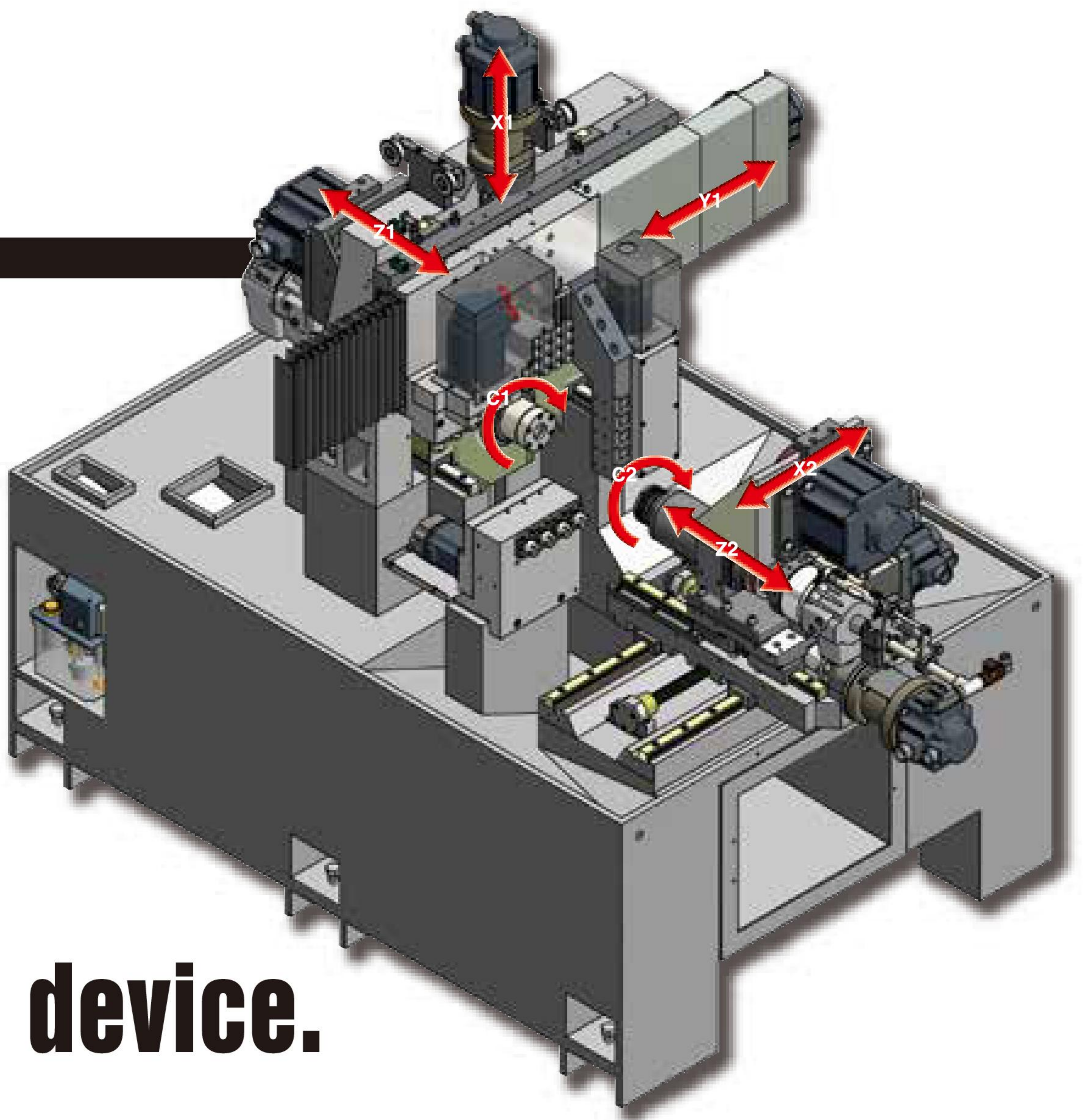


Maximum Versatility of Back Milling Device

(Back Milling Device)

- Upon request, the back milling device is available to mount with an O.D. or I.D. tool.
- Changing tool holder is done easily by simply loosening 4 lock screws.
- Axial machining device.
- Radial machining device (optional).
- All machining devices can be change with ease.

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



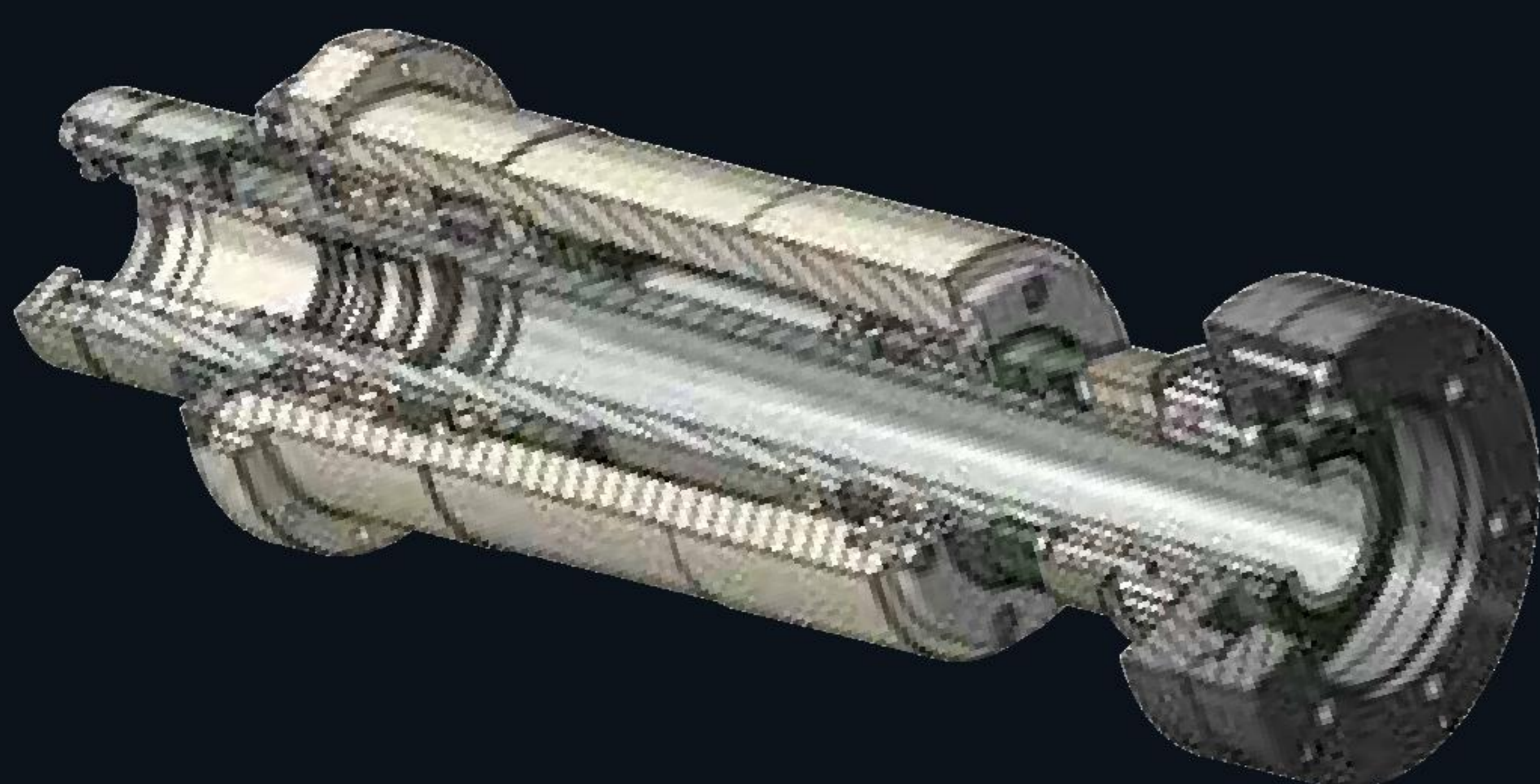
Precision Linear Ways

- The sub-spindle head moves on two THK precision roller type linear ways, that are combined with extra large span between linear ways for outstanding stability and positioning accuracy.

Main Spindle

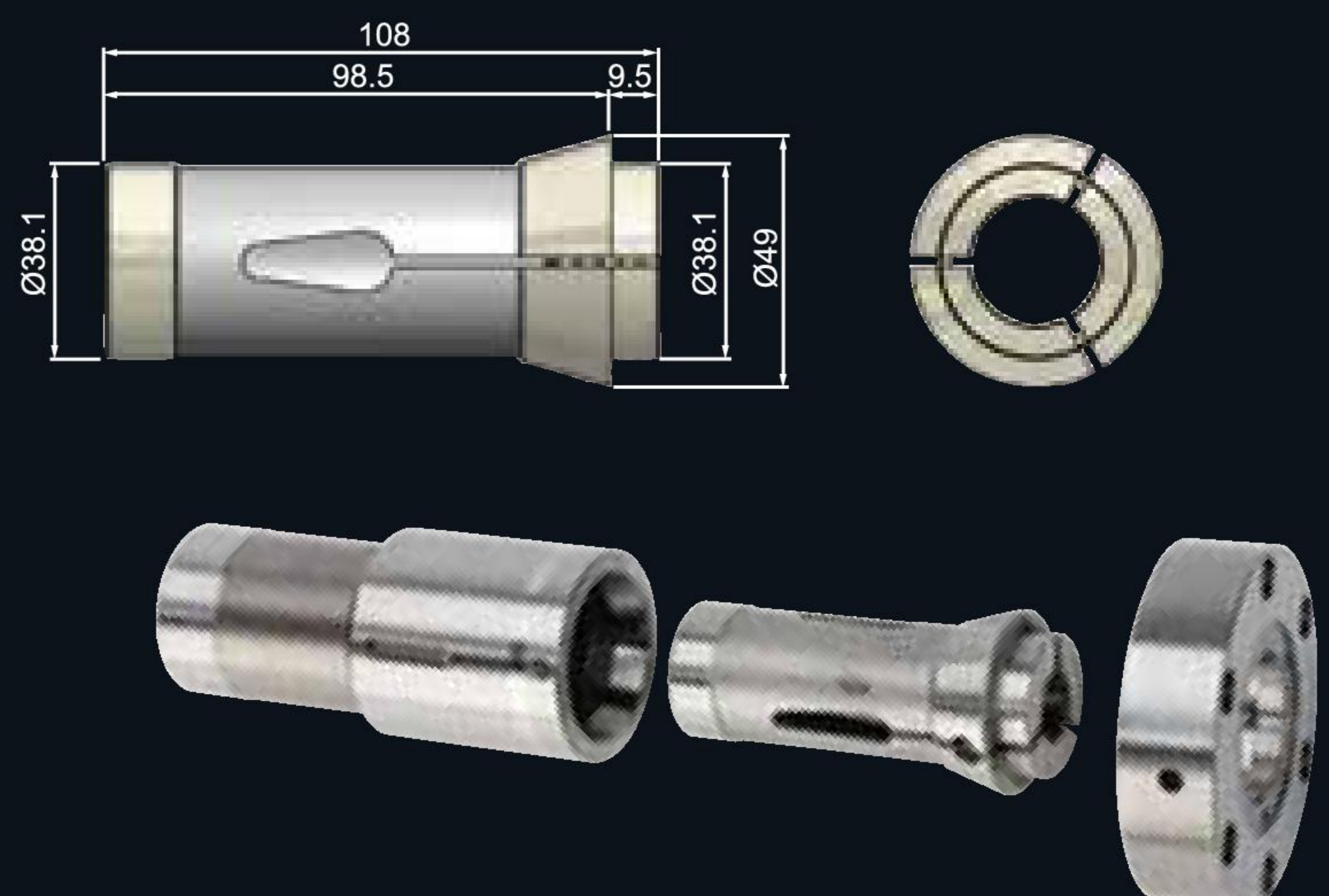
Belt-drive Type Spindle (standard)

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



Collet Chucking System for main Spindle

The collet chucking system provides a choice of 164E or 171E collet.



Back Side Machining Mechanism



Sub Spindle Assembling

- The back milling device is mounted between the main and sub-spindle.
- The device is capable of performing milling, drilling and tapping operations for the back side of a part.
- Total 4 powered tools driven by a servo motor.
- Max. tool speed is 6,000 rpm.

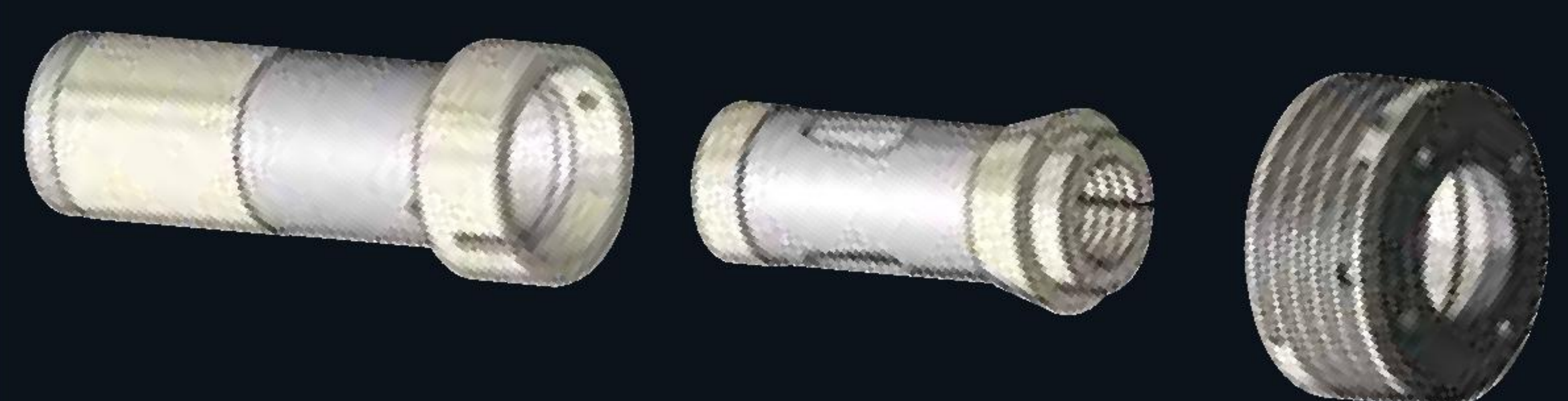
Sub-Spindle Belt-drive Type Spindle

- Motor: 4.4kw
- Spindle speed: 6,000 rpm
- Clamping system: collet

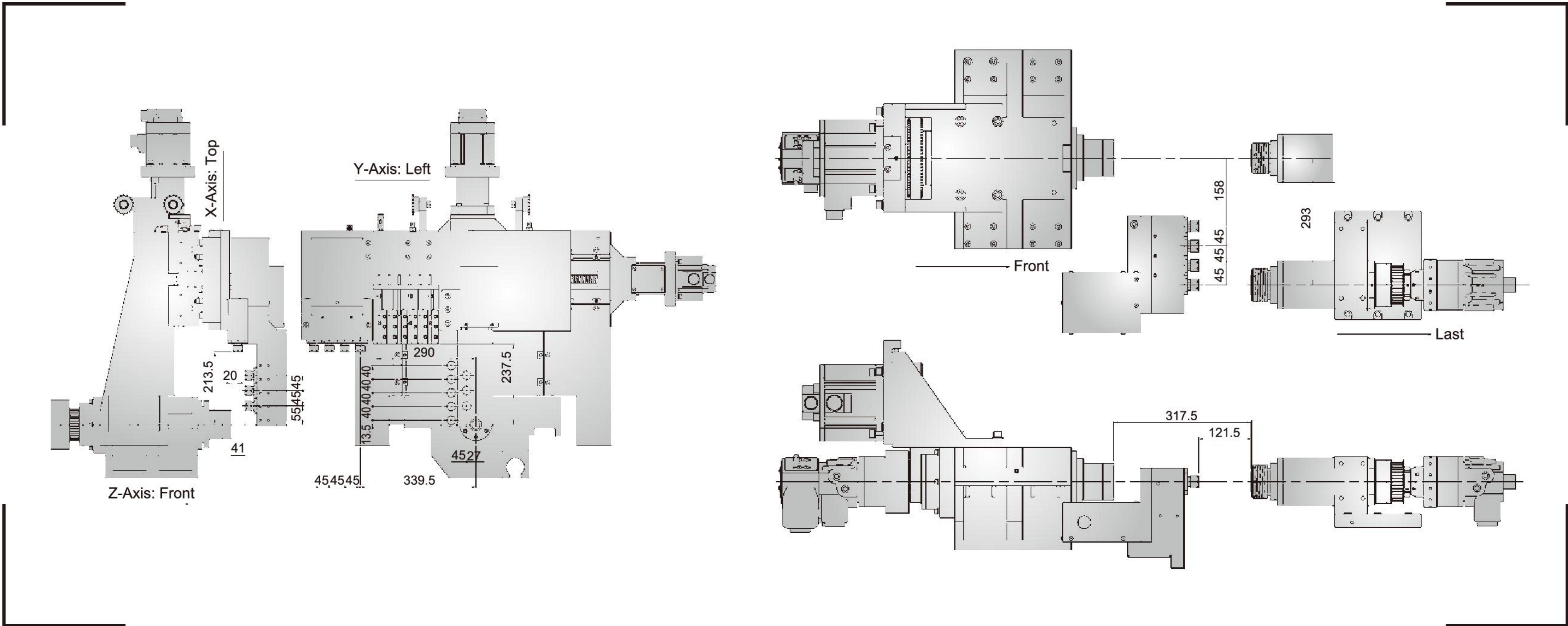


Collet Chucking System for Sub-spindle

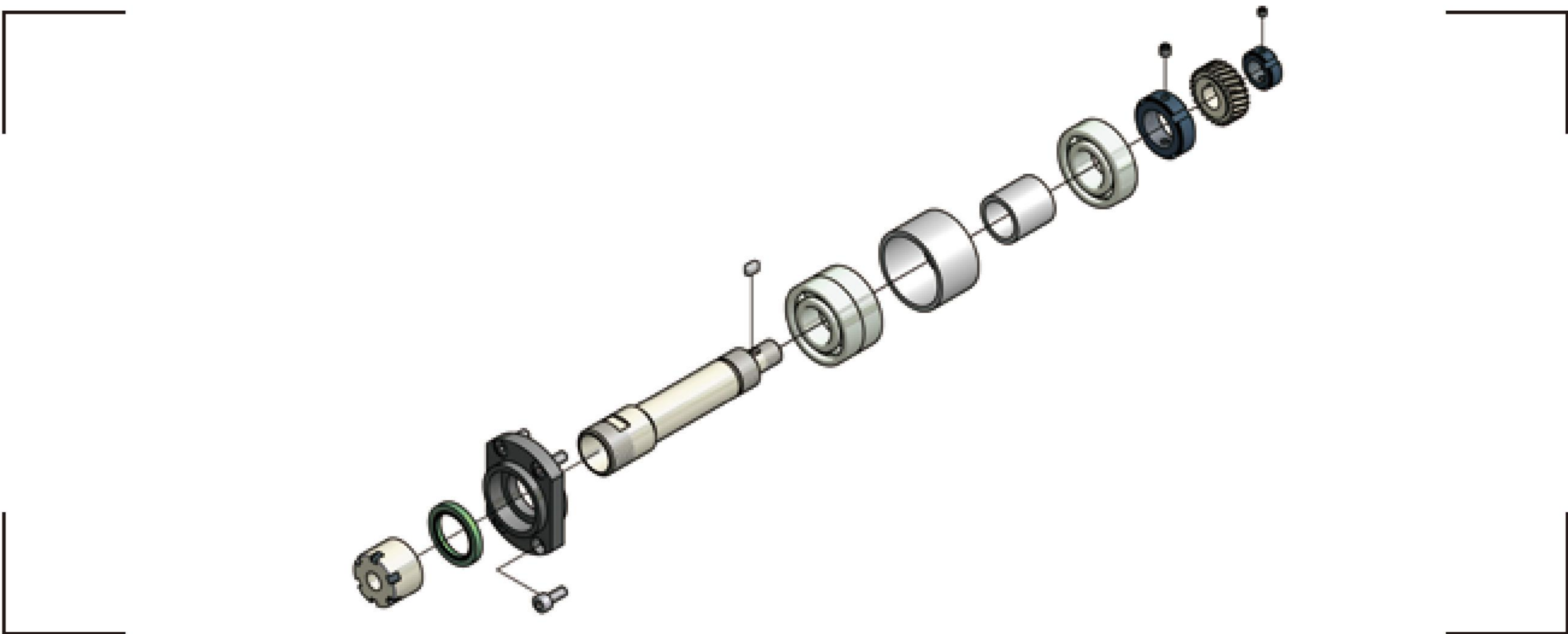
The collet chucking system provides a choice of 164E collet.



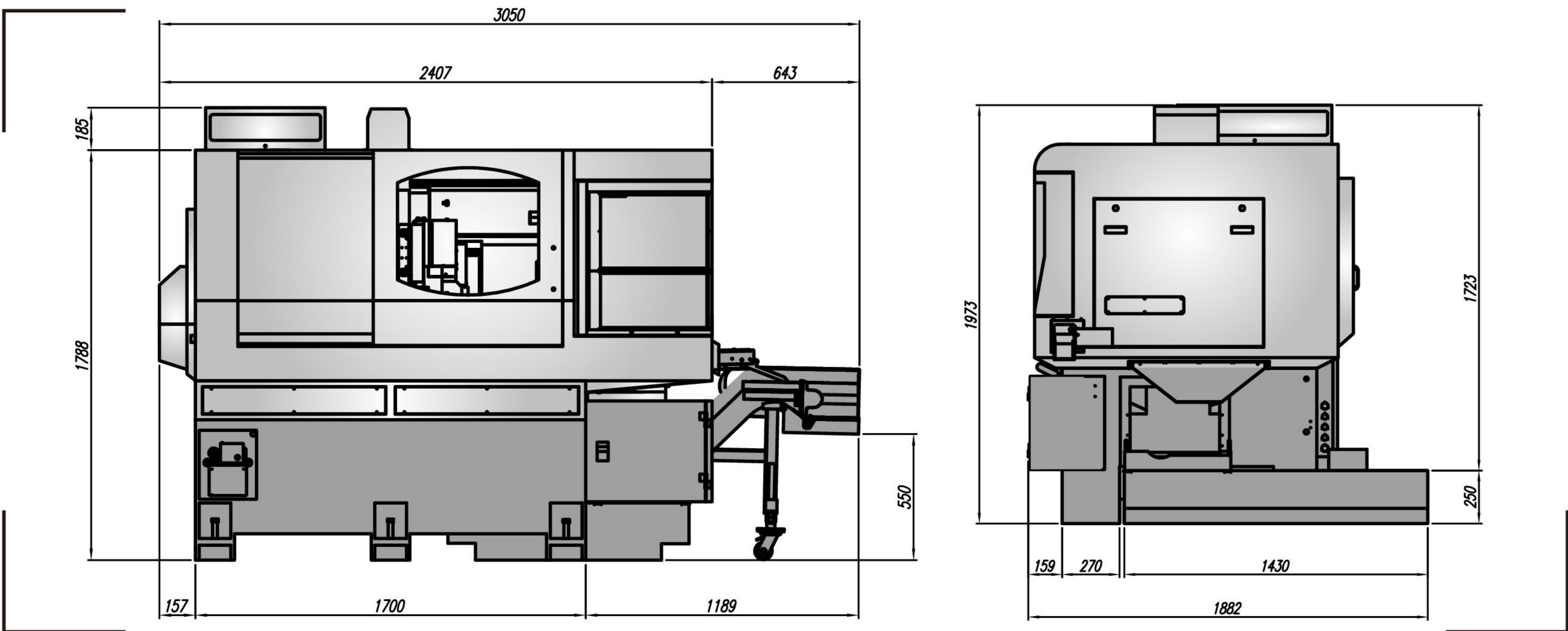
INTERFERENCE DIAGRAM



TOOLING SYSTEM



MACHINE DIMENSIONS



MACHINE SPECIFICATIONS

	Unit: mm	
Capacity	CB-32M	CB-36M
Controller	Syntec	
Spindle		
Max. manu. Dia.	Ø32	Ø36
Spindle max. rpm	6000 rpm	
Center height	1032	
Max. bar feeding dia.	Ø32	Ø36
Collet of spindle	TRB-32	TRB-36
Spindle servo motor	7.5 kw	
No. of O.D. turning tool	6 (Option: 5)	
No. of I.D. turning tool	5	
O.D. turning tool size	12 (Option: 16)	
I.D. turning tool size	Ø25	
Sub Spindle		
Max. bar feeding dia.	Ø27.5	
Sub spindle max. rpm	6000 rpm	
Collet of spindle	TRB-32	
Sub spindle servo motor	4.4 kw	
Min. input unit	0.001	
No. of turning tool	4	
I.D. turning tool size	Ø25	
Axis Travel		
X1, X2-axis travel	185 / 290	
X1, X2-axis servo motor	X1: 1.3 kw, X2: 0.85 kw	
Y, Z1,Z2-axis travel	490 / 165 / 285	
Y, Z1, Z2-axis servo motor	0.85 kw	
X,Y,Z Rapid travel speed	30 m/min	
Spindle Live Tooling		
No. of Radial live tooling	4	
Radial tooling size	ER-20	
Radial live tooling servo motor	1.5 kw	
Radial live tooling max. speed	6000 rpm	
No. of Axial live tolling	3	
Axial tooling size	ER-20	
Axial live tooling servo motor	0.75 kw	
Axial live tooling max. speed	6000 rpm	
Sub Spindle Live Tooling		
No. of Axial live tooling	4	
Axial live tooling servo motor	0.75 kw	
Axial live tooling max. speed	6000 rpm	
Hydraulic & Coolant motor		
Hydraulic motor	1 HP	
Spindle upper flush pump	1 HP	
Tank capacity		
Hydraulic tank	46 L	
Coolant tank	240 L	
Machine specification		
Auto lubricator capacity	3~6 cc / 15 min	
Power	220 V, 31 KVA	
Machine size (L x W x H) (includes chip conveyor)	3050 x 1882 x 1973	
Machine N.W.(includes chip conveyor)	3800 kg	

STANDARD ACCESSORIES

- Tool kit
- Drilling shaft ER20 × 6
- Collet chuck device
- Auto bar feeder interface
- Finished parts catcher & conveyor
- Auto power breaker
- Cross side live tooling device
- Front side live tooling device
- Back side live tooling device
- Sub spindle finished parts ejector
- Air conditioner for electrical cabinet
- Chip washing coolant device & Air blowing device
 - * 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



Machinery

TEL: 886-4-2533-7614

FAX: 886-4-2532-9524

EMAIL: info@chiah-chyun.com

AD: No.16 Ln. 52, Sanshe Rd., Shengang Dist.,
Taichung City 429, Taiwan.



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Catalog

www.chiah-chyun.com

Jan, 2017