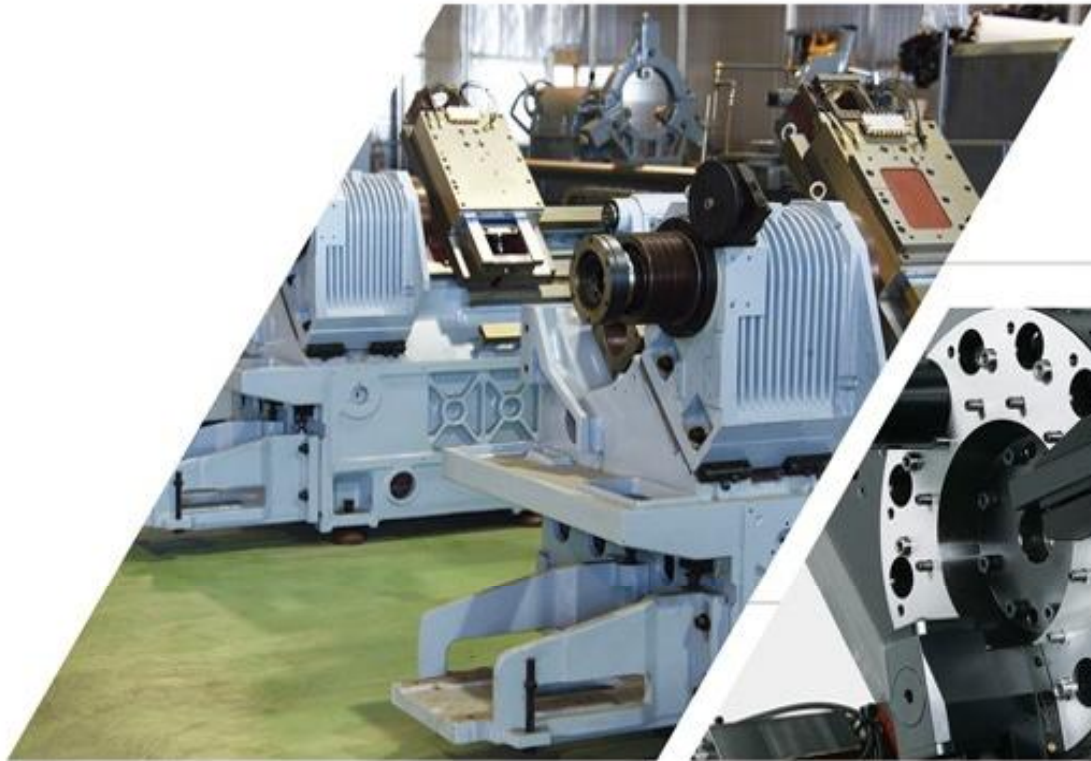




SUN MASTER



Advanced Structural Design to Achieve the Best Possible Stability



Slant Bed CNC Lathe

CNE- 20 / 26

CE



Advanced Design Concept NEW Slant Bed CNC Lathe from SHUN CHUAN



**Integrated with Outstanding Features that
Provide You the Winning Edge!**

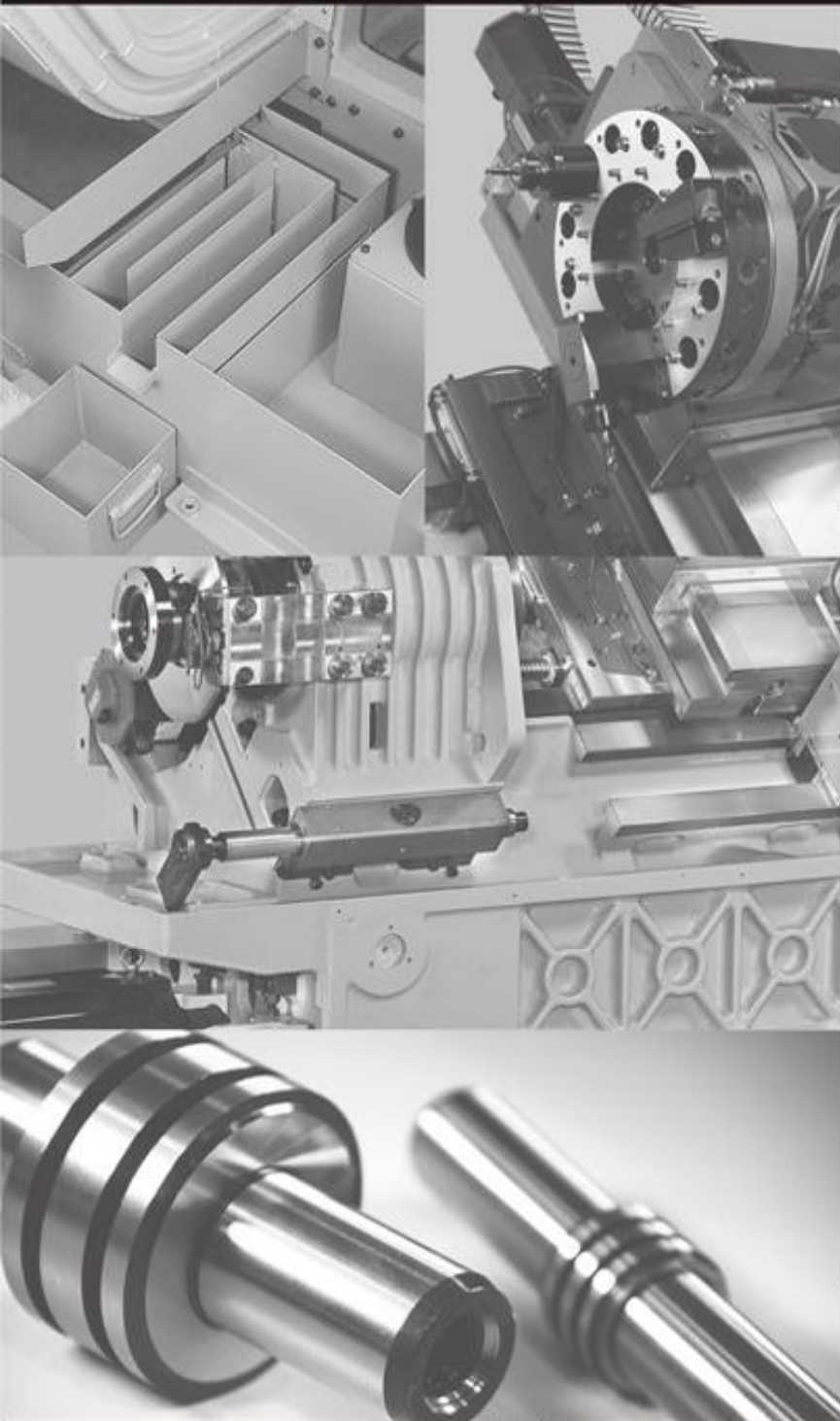
The new generation slant bed CNC lathe from Shun Chuan lets you enjoy extraordinary machining capacity, stability and precision. Its specially designed structure enhances the heavy cutting capabilities you've come to expect.

▶▶▶ **CNE Series** CNE-20/26

SUNMASTER | SLANT BED CNC LATHE



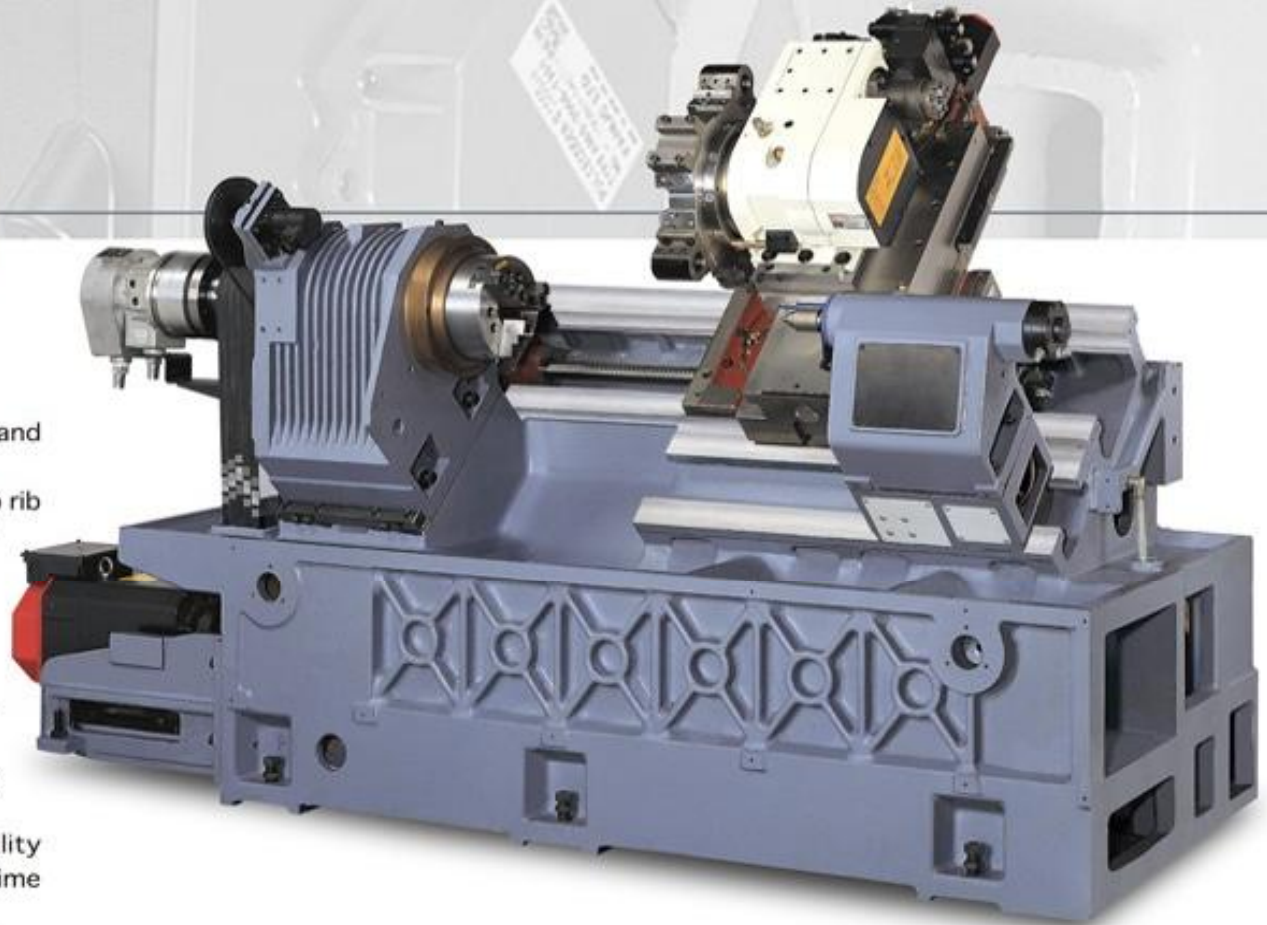
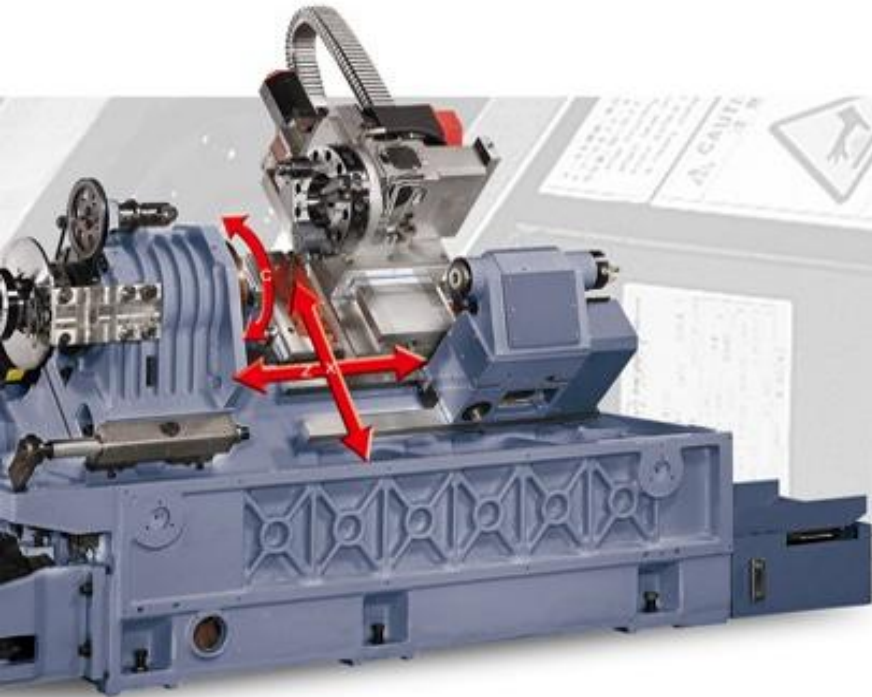
Model : CNE-26C



A New Definition for Rigidity and Stability

Optimum Structural Design

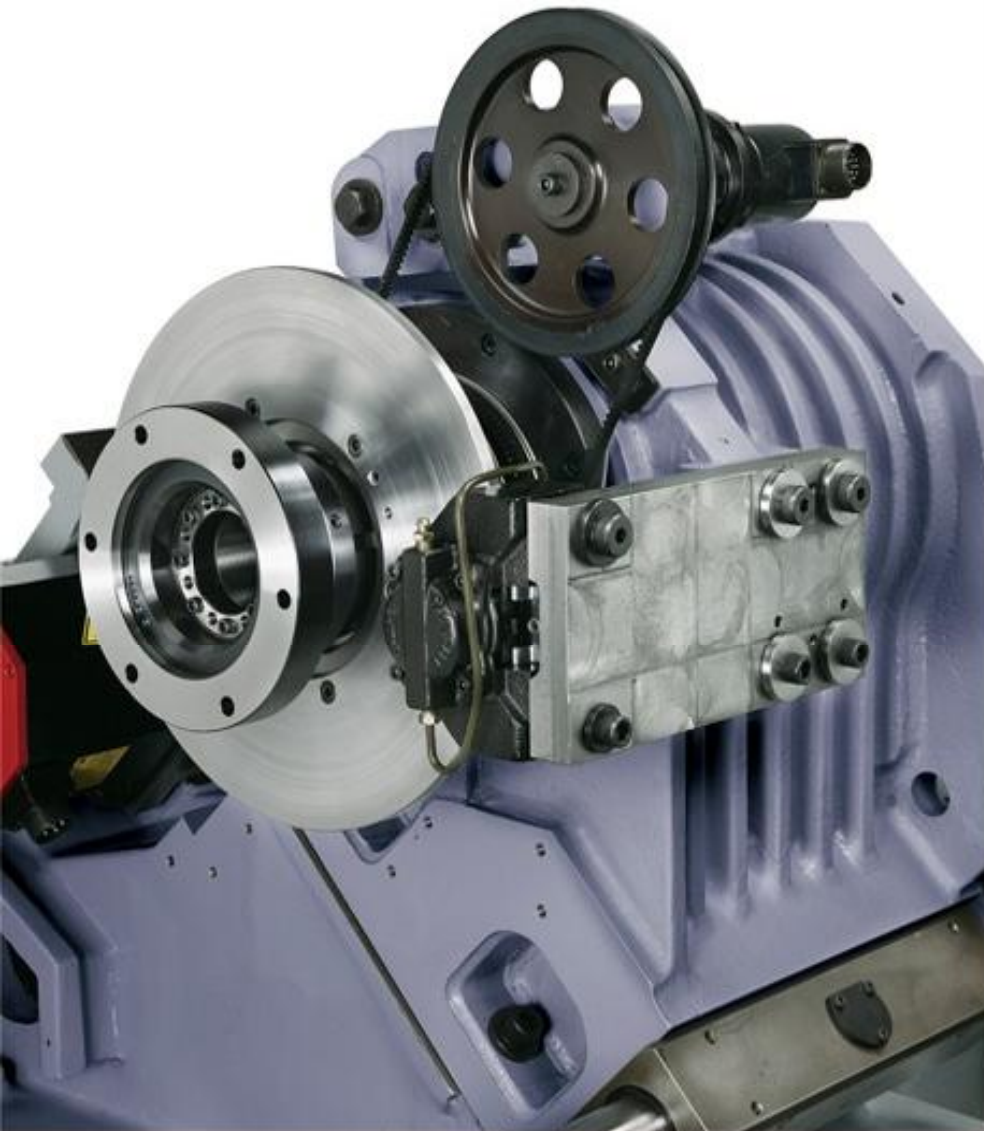
With years of effort in research and development, Shun Chuan's slant bed CNC lathe will offer unique rigidity. The design concept behind the CNE-20 / CNE-26 series is to enhance heavy duty machining, precision and stability. With its excellent machine structure, you can handle heavy cutting with more ease than ever before.



- 45° slant bed construction assures solid support of turret and efficient chip removal.
- Massive base construction, combined with advance honey comb rib reinforcement design, minimizes vibration while enormously upgrading structural rigidity and stability.
- The entire machine construction is heavier than competitive models for outstanding stability.
- Box ways on X and Z axes, slideway surfaces are hardened, precision ground and coated with Turcite-B for maximum wear resistance.
- Extra wide slideways on X and Z axes for increased stability during machining.
- All major structural parts are manufactured from high quality Meehanite cast iron and tempered to relieve stress for lifetime deformation-free operations.
- Cs axis function is available as an option enabling turning, drilling, grooving & milling functions to be performed in one setup.

Cs Axis Function (OPT.)

Cs Axis+Live Tooling System,
Suitable for Turning, Drilling
and Milling Function



RIGID... STABLE... PRECISE
Quality Features Throughout
Assure Greater Value!



10-POSITION TURRET **12-POSITION TURRET**

- The turret is compactly constructed and combined with bi-directional random tool selection for quick tool change.
- Tool change time is quickly accomplished in only 0.6 seconds.
- The 10-position turret accommodates 25 x 25 mm O.D. tools and 40 mm I.D. tools.
- The 12-position turret accommodates 20 x 20 mm O.D. tools and 32 mm I.D. tools.



TOOL PRE-SETTER (OPT.)

- The tool pre-setter effectively reduces cutting tests while saving machining time.
- The mechanism is used for measuring tool diameter and length.
- The tool adjustment arm is powered and program controlled.



PROGRAMMABLE TAILSTOCK

- The ruggedly constructed, programmable tailstock and quill movement can be controlled on the control panel for easy set-up and accurate positioning.
- Tailstock movement is driven by turret slide.



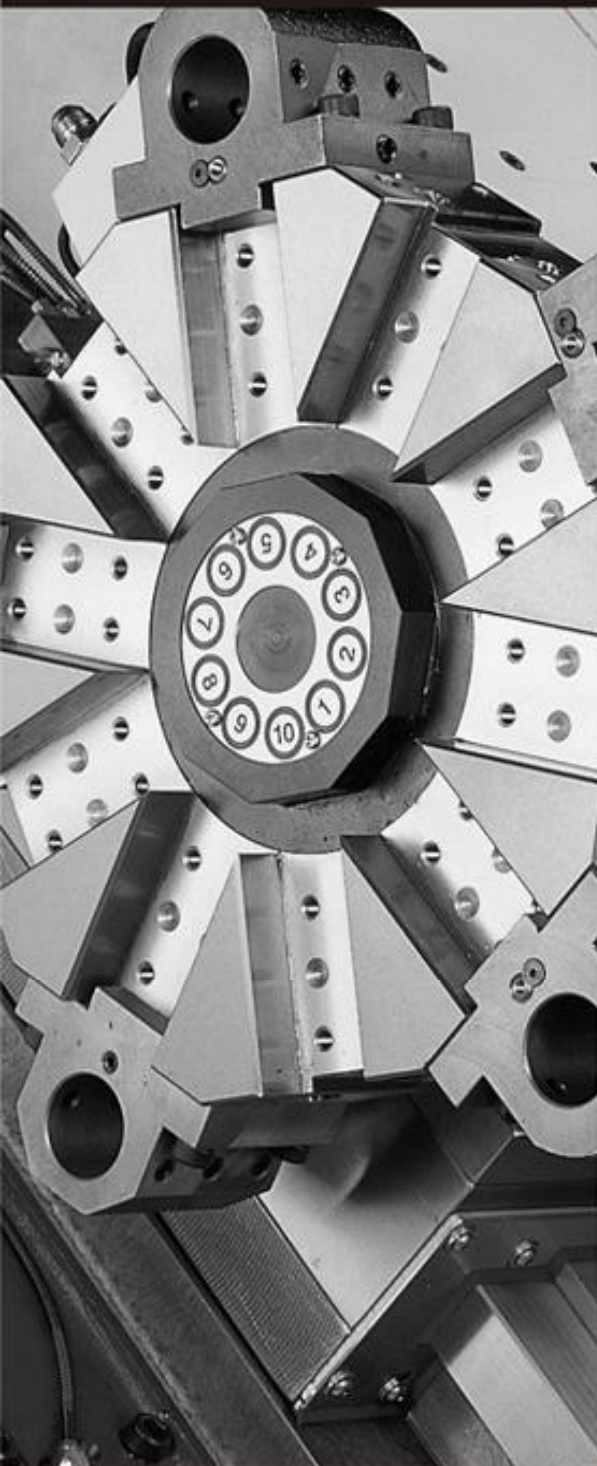
COMPLETE OIL FLUID SEPARATION

- In addition to the oil fluid separation design on X- and Z-axes, the cutting fluid tank is specially designed with a labyrinth construction to fully exhaust the floating oil. This assures no oil mixes with cutting fluid.
- Double filters in the fluid tank ensure clean recirculated fluid.



POWER TURRET (OPT.)

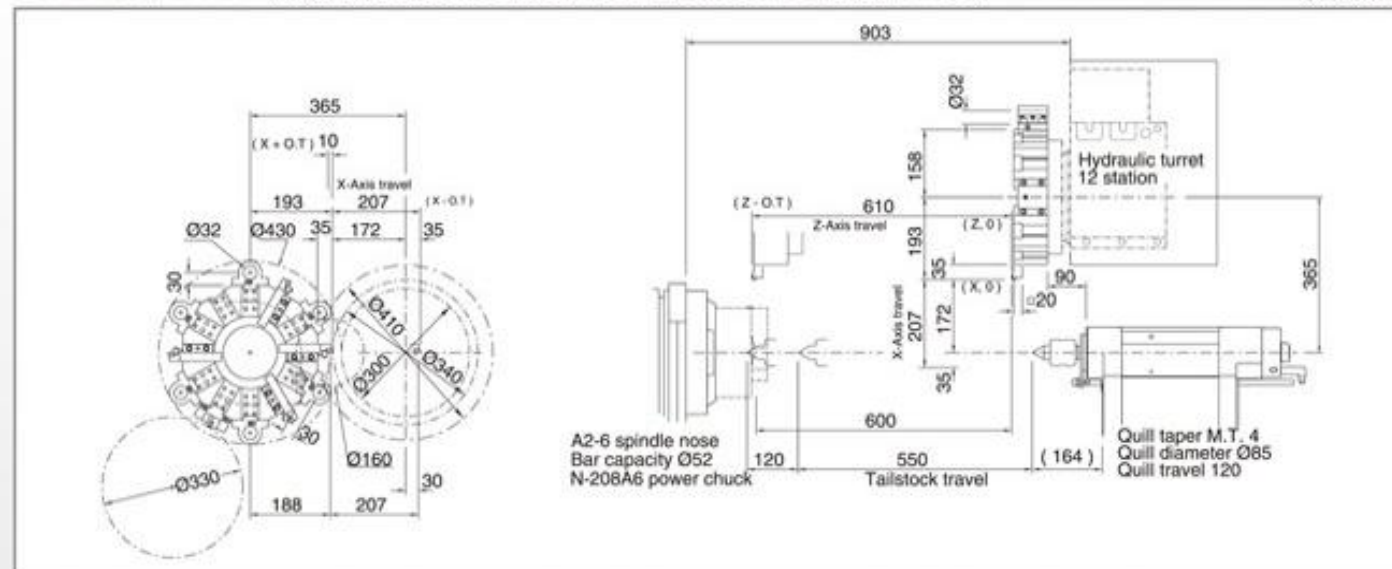
- Equipped with Buraffaldi VDI 30 power turret to ensure the most excellent machining results.
- Driven by FANUC (L2) spindle motor.



TOOLING INTERFERENCE

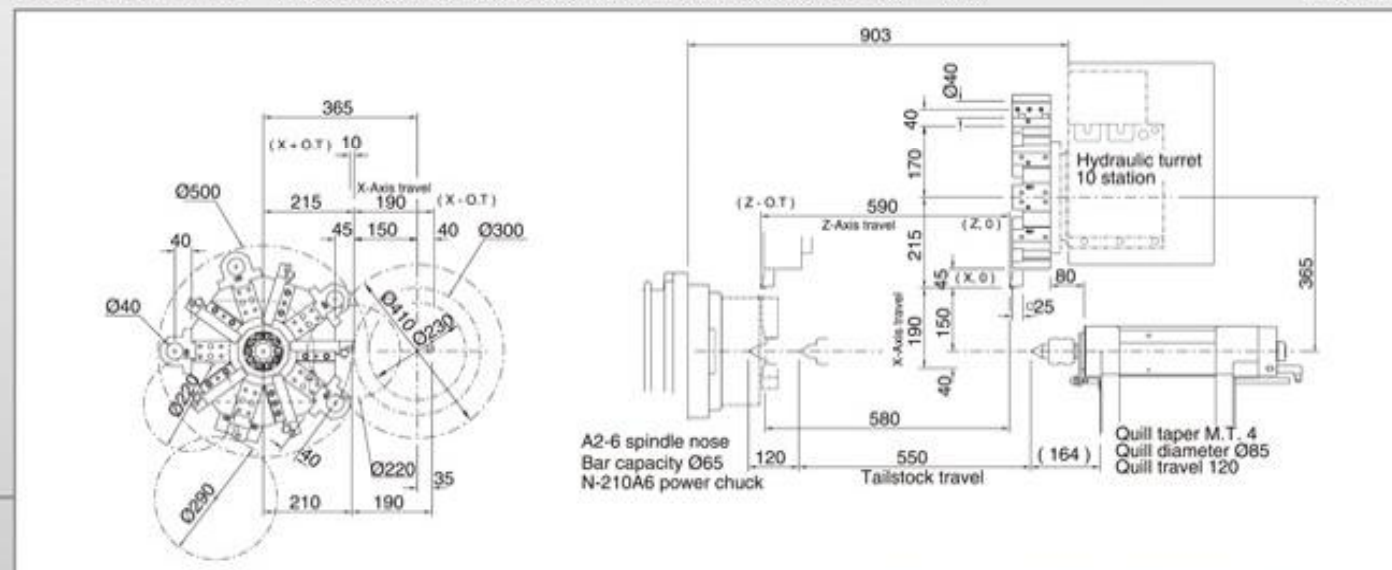
CNE-20 / H12 (Hydraulic turret 12 station, Tool holder Ø32, Tool shank □20)

Unit : mm



CNE-26 / H10 (Hydraulic turret 10 station, Tool holder Ø40, Tool shank □25)

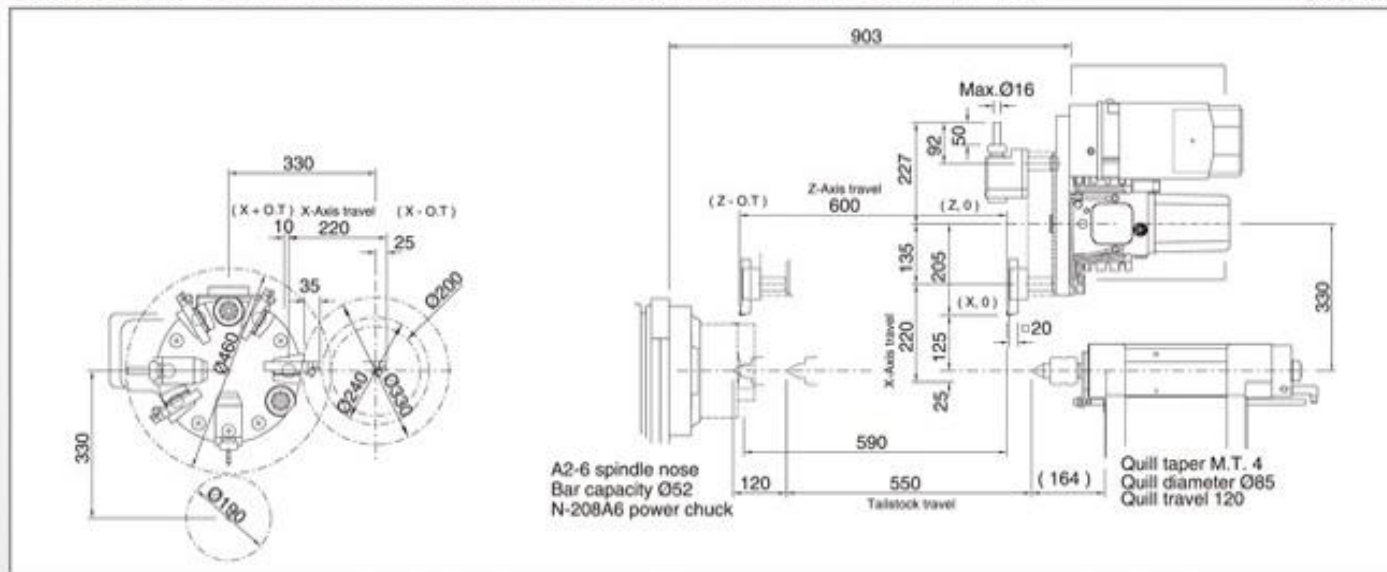
Unit : mm



C AXIS TOOLING INTERFERENCE

CNE-20 / V12 (Electric turret 12 station, V.D.I.30 cylindrical shank , Tool shank $\square 20$)

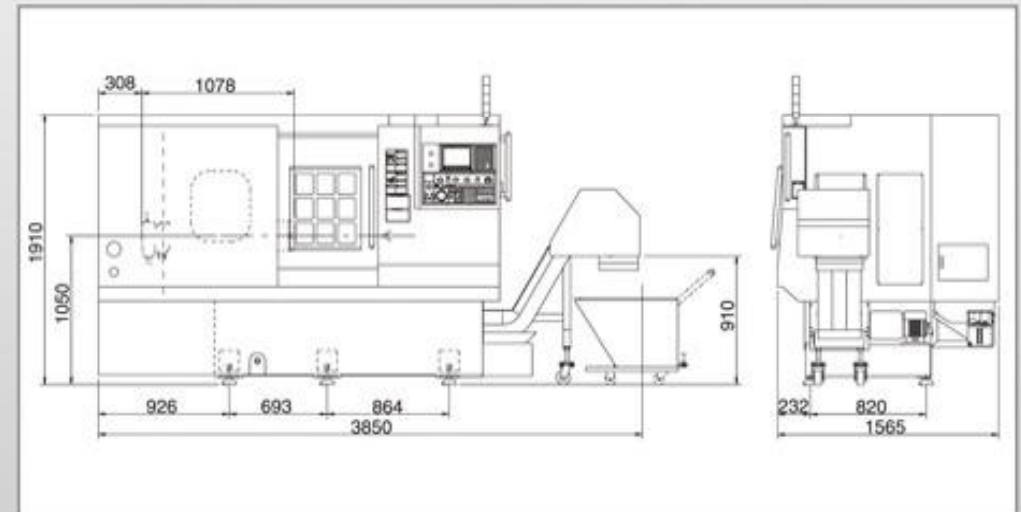
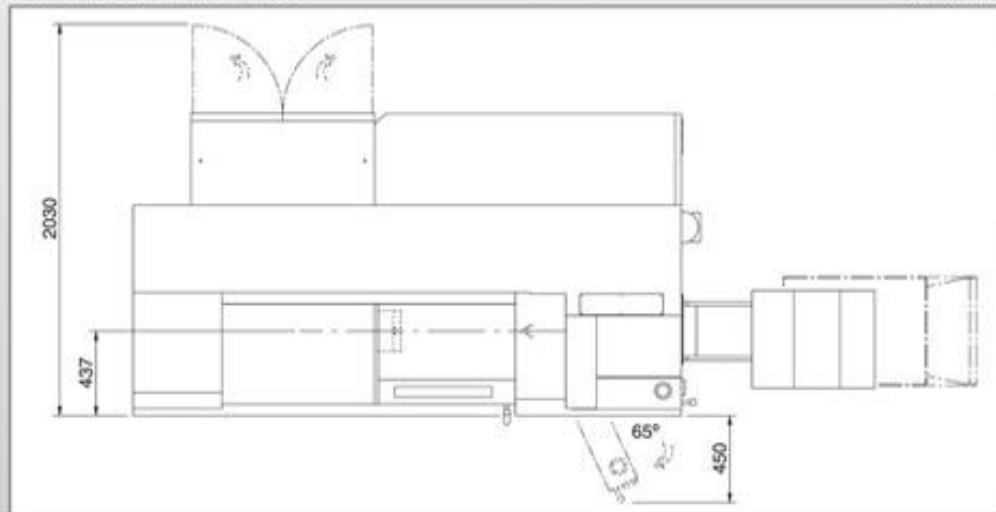
Unit : mm



MACHINE OUTLINE DIMENSIONS

CNE-20 / CNE-26

Unit : mm



SPECIFICATIONS

MODEL

		CNE-20	CNE-20C	CNE-26	CNE-26C	
Capacity	No. of control axis	2 Axis	2 Axis+Cs axis	2 Axis	2 Axis+Cs axis	
	Swing over bed	Ø630mm (24.8")				
	Standard turning diameter	H10.....Ø230mm (9.05") / H12.....Ø300mm (11.81") / V12.....Ø200mm (7.87")				
	Maximum turning diameter	H10.....Ø300mm (11.81") / H12.....Ø340mm (13.38") / V12.....Ø250mm (9.84")				
	Work length	H10.....580mm (22.83") / H12.....600mm (23.62") / V12.....Ø590mm (23.23")				
Headstock and Main Spindle	Spindle nose , Internal taper	A2-6, Ø69 Taper 1/20		A2-6, Ø81 Taper 1/20		
	Spindle bore	Ø65mm (2.56")		Ø78mm (3.07")		
	Bar capacity	Ø52mm (2.04")		Ø65mm (2.56")		
	Hydraulic power chuck	Ø210mm (8")		Ø254mm (10")		
	Range of spindle speed	45-4500 R.P.M.		35-3500 R.P.M.		
	Front bearing ID. of spindle	Ø100mm (3.937")		Ø120mm (4.724")		
Cross slide (X-axis) and Carriage (Z-axis)	Cross slide travel (X-axis)	H10.....Ø190mm (7.48") / H12.....Ø207mm (8.15") / V12.....Ø220mm (8.66")				
	Longitudinal travel (Z-axis)	H10.....590mm (23.23") / H12.....610mm (24.02") / V12.....600mm (23.62")				
	AC servo motor (X-axis)	1.6kW 8N.m ~ FANUC α8/3000i				
	AC servo motor (Z-axis)	3.0kW 12N.m ~ FANUC α12/3000i				
	Dia. of ball screw (X-axis)	Ø32mm (1.26") P5 C3				
	Dia. of ball screw (Z-axis)	Ø40mm (1.57") P10 C3				
	Rapid traverse speed (X-axis)	15 m/min (590 ipm)				
	Rapid traverse speed (Z-axis)	20 m/min (787 ipm)				
	Cutting feed rate (Both axes)	0.001 ~ 500 mm/rev.				
Hydraulic Turret	Tool station (Random)	H10.....10 tools / H12.....12 tools / V12....12 Tools				
	Tool shank	H10.....□25mm / H12.....□20mm / V12.....□20mm				
	Boring bar diameter	H10.....Ø40mm (1.575") / H12..... Ø32mm (1.26") / V12..... Ø32mm (1.26")				
Programmable Tailstock	Quill diameter	Ø85mm (3.346")				
	Quill travel	120mm (4.72")				
	Taper of center	MT. No.4				
	Tailstock travel	550mm (21.65")				
Motor	Main spindle (continuous rated)	STD. AC9kW (12HP) OPT. AC11kW (15HP)		STD. AC11kW (15HP) OPT. AC15kW (20HP)		
	Main spindle (30 min. rated)	STD. AC11kW (15HP) OPT. AC15kW (20HP)		STD. AC15kW (20HP) OPT. AC18.5kW (25HP)		
	Hydraulic oil pump	2.2kW (3HP)				
	Coolant pump	375W (0.5HP)				
	Power turret	V12.....AC 2.2kW (3HP)				
Tank capacity	Hydraulic Tank	65 Litre (14.3 gal.)				
	Coolant Tank	180 Litre (39.6 gal.)				
Measurement	Weight (Net/Gross) Approx.	5200kgs / 5700kgs		5500kgs / 6000kgs		
	Packing sizes	Length				4000mm (157.5")
		Width x Height				Width 1890mm (74.41") x Height 2230mm (87.8")

※ Specifications subject to change without notice.

STANDARD ACCESSORIES

- CNC controller; FANUC 0i - TD
- H10 / H12 hyd. turret with tooling system (CNE20 / 26)
- VDI 30 power turret, 12 station, W/O tooling system (CNE20C / CNE26C)
- Chip conveyor & chip bucket cart.
- Pedal switch for chuck open & close.
- Hydraulic hollow chuck with rotary cylinder.
- Programmable tailstock with hydraulic clamp system.
- Hydraulic system with tank for power chuck, turret & tailstock quill.
- Work light.
- Coolant system.
- Heat exchanger.
- Rotating center MT.4...1 set
- Machining finishing lamp.
- Auto lubrication system.
- Soft jaws & hard jaws.....1 set for each.
- Level pads6 pcs.
- Toolset & Box.
- Full set manual.

OPTIONAL ACCESSORIES

- Auto door.
- Transformer.
- Collet chuck.
- Parts catcher.
- Tool pre-setter. (manual or auto type)
- CE configuration.
- Auto bar feeder.
- Auto bar feeder interface.
- Air blow system for cleaning chuck.
- VDI 30 x 12 tools / □20mm electronic type turret.
- Cs axis control & function with break system / VDI 30 power tool turret.



THERMAL GROWTH COMPENSATION

