

### Quality Assurance

At HANNSA, we ensure that the quality of each machine will meet our customers' requirements. HANNSA machine tools are manufactured by a team of highly skilled technicians. Rigorous inspections and tests are conducted, enabling HANNSA to achieve the highest standards.



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The First Name in Efficiency, Performance and Value

# CNC LATHE SERIES

## YTL Series



ISO-9001



Group

## YTL SERIES CNC LATHE

# YOUR NO.1 CHOICE FOR HIGHLY EFFICIENT LATHES

The new generation YTL Series CNC Lathe is carefully built with HANNSA's traditionally excellent quality. Our objective is to offer economically priced CNC lathes with a high level of performance.

### YTL LINEAR WAY SERIES



▲ YTL 8540(M)



▲ YTL 101000(M)

PALLET	UNITS	YTL 8540 (M)	YTL 101000 (M)
Swing Over Bed	mm (inch)	Ø400 (Ø15.7)	Ø600 (Ø23.6)
Slant Bed		45°	30°
Over Cross Dia.	mm (inch)	Ø320 (Ø13)	Ø600 (Ø23.6)
Max. Turning Dia.	mm (inch)	Ø320 (Ø13)	Ø600 (Ø23.6)
Max. Work Length	mm (inch)	540 (21.25) / 400 (15.74)	950 (37.4) / 800 (31.5)
Z Axis Travel	mm (inch)	540 (21.25) (M) 400 (15.74)	1000 (39.4) (800 (31.5) sub spindle)

**M: with C-axis Fuction and Power Turret (optional)**



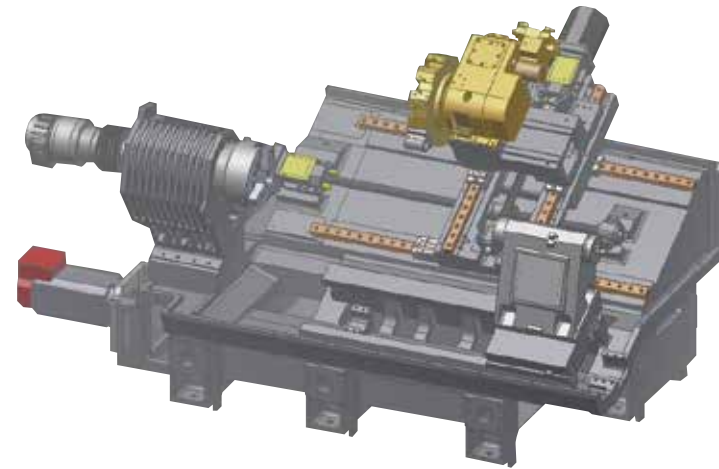
# HIGH SPEED MACHINING

## FULLY MEET YOUR EFFICIENCY EXPECTATIONS

The YTL series CNC lathe from HANNSA is designed to enhance higher machining efficiency. Both the slide ways are hardened linear guide ways and both model's performance are absolutely capable of satisfying your strong demand for productivity and accuracy.

### MASSIVE SLANT BED WITH EASY CHIP EVACUATION

- Meehanite cast iron is tempered for stress relief to ensure structural stability without deformation.
- The base is mounted with high precision linear ways with high feed rate, allowing the machine to perform high speed cutting.



YTL 101000



## VERSATILE OPTIONAL FEATURES



### Hydraulic 3-Jaw Chuck

- Each machine comes with a hydraulic 3-jaw chuck as standard equipment.
- Chuck diameter supplied may vary with lathe model.



### High Quality Coupling

The X, Z-axis are directly driven by servo motors through high quality couplings, ensuring smooth and accurate movements of the X, Z-axis.



### Hydraulic Tailstock

- The tailstock quill is controlled by hydraulic power for convenient positioning.
- The entire tailstock assembly is moved manually or by programming.



### Chain Type Chip Conveyor

The fast, efficient chip conveyor delivers chips to a chip bucket outside the machine during machining, which helps to keep the machine interior clean at all times.



### Parts Catcher (optional)

The parts catcher provides convenient and efficient parts collection after parts machining is finished.



### Bar Feeder (optional)

- With the use of the bar feeder, more automated machining can be attained.
- Choice of various specifications of bar feeder to suit customers' bar sizes.



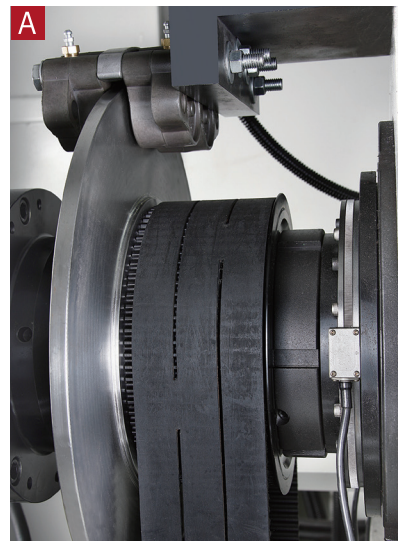
### Tool Setter (optional)

- The tool setter employs a touch sensor which measures tool length.
- By using the tool setter, you can reduce the amount of cutting tests.



## C-AXIS FUNCTION (OPTIONAL)

- The C-axis function of the spindle allows the machine to perform contour machining.
- Applicable for milling, drilling and tapping operations for flexible machining and increased efficiency.
- Indexing accuracy reaches 0.001°



### A C-axis Encoder

The C-axis is fitted with a high resolution encoder that enables the C-axis to reach high positioning accuracy. This results in high accuracy when performing contour machining.

### B C-axis Brake

The C-axis employs a disc brake to increase the spindle orientation efficiency and accuracy.

## POWER TURRET (OPTIONAL)

The power turret is used together with the C-axis function of the spindle to perform milling, drilling and tapping operations.

### Features of Power Turret

- Turret rotation and indexing are driven by a special servo motor to achieve fast tool change and high positioning accuracy.
- The tool holders provide high torque output for heavy cutting.
- Repeatability accuracy is up to 0.003mm.

## HIGH PRECISION SPINDLE (MAIN SPINDLE)



The spindle runs on double-row roller bearings in combination with angular contact bearings. This outstanding bearing arrangement resists radial and thrust load when performing heavy cutting. As a result, the spindle exhibits excellent stability during cutting.

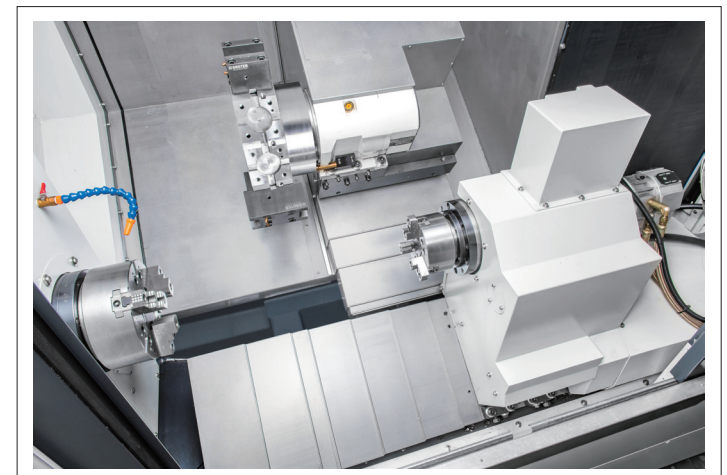
## SUB-SPINDLE (OPTIONAL ONLY FOR YTL 101000)

### Back Machining

This series is equipped with a sub-spindle, allowing the machine to perform back machining on a workpiece. This feature effectively saves time in secondary setup of the workpiece and limits cutting accuracy error.

## Y-AXIS (OPTIONAL ONLY FOR YTL 101000)

- Y-axis provides an increase of machining capabilities.
- Y-axis travel is +50 ~ -50mm.





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## 1



## 15



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## Y



## Y



**Y**



**Y**



**Y**



**Y**





SPECIFICATIONS

	PALLET	UNITS	YTL 8540(M)	YTL 101000(M)
MACHINE DIMENSIONS	Swing Over Bed	mm (inch)	Ø400 (Ø15.7)	Ø600 (Ø23.6)
	Slant Bed		45°	30°
	Over Cross Dia.	mm (inch)	Ø320 (Ø13)	Ø600 (Ø23.6)
	Max. Turning Dia.	mm (inch)	Ø320 (Ø13)	Ø600 (Ø23.6)
	Max. Work Length	mm (inch)	540 (21.25) / 400 (15.74)	950 (37.4) / 800 (31.5)
SPINDLE	Spindle Drive Motor (cont./15 min)	KW (HP)	11 / 15 (20)	15 / 18.5 (25)
	Spindle Speed Range	rpm	4500 / 4000	3000
	Spindle Nose		ASA A2-6	ASA A2-8
	Chuck Size	inch	8	10
	Through Spindle Hole Dia.	mm (inch)	Ø62 (Ø2.44) / Ø79 (3.11)	Ø90 (Ø3.54)
	Power Tooling Motor (opt.)	KW (HP)	2.2 / 3.7 (5)	3.7 / 5.5 (7)
	Power Tooling Speed (opt.)		A / 6000 R / 5000	A / 6000 R / 5000
	Front Bearing Dia.	mm (inch)	100 (3.93) / Ø110 (4.33)	130 (5.11)
	Spindle Taper (Quill Taper)		1 / 20	1 / 20
	Draw Tube Dia.	mm (inch)	52 (2.04) / Ø65 (2.55)	78 (3.07)
SUB-SPINDLE (OPTIONAL)	Spindle Drive Motor (cont./15 min)	KW (HP)	-	5.5 / 7.5 (10)
	Spindle Speed Range	rpm	-	6000
	Spindle Nose		-	ASA A2-5
	Chuck Size	mm (inch)	-	6
	Through Spindle Hole Dia.	mm (inch)	-	Ø56 (Ø2.2)
	Front Bearing Dia.	mm (inch)	-	90 (3.54)
	Draw Tube Dia.	mm (inch)	-	42 (1.65)
FEED	Z Axis Travel	mm (inch)	540 (21.25) (M) 400 (15.74)	1000 (39.4) (800 (31.5) sub spindle)
	X Axis Travel	mm (inch)	185 (7.28)	320 (12.6)
	Y Axis Travel (opt.)	mm (inch)	-	±50
	Z Axis Motor	KW (HP)	1.8 (2.4)	2.5 (3.3)
	X Axis Motor	KW (HP)	1.8 (2.4) (Brake Included)	2.5 (3.3)
	Y Axis Motor (opt.)	KW (HP)	-	2.5 (3.3)
	B Axis Motor (opt.)	KW (HP)	-	2.5 (3.3)
	Z Axis Rapid Feed	m (inch)/min	30 (1181)	30 (1181)
	X Axis Rapid Feed	m (inch)/min	30 (1181)	30 (1181)
	Y Axis Rapid Feed (opt.)	m (inch)/min	-	30 (1181)
	B Axis Rapid Feed (opt.)	m (inch)/min	-	20 (787.4)
	Z Axis Ball Screw	mm (inch)	Ø32 (1.25)	Ø40 (1.57)
	X Axis Ball Screw	mm (inch)	Ø32 (1.25)	Ø40 (1.57)
	Y Axis Ball Screw (opt.)	mm (inch)	-	Ø40 (1.57)
	Ball Screw Pitch	mm (inch)	10 (0.39)	10 (0.39)
	Guideways		Linear Way	Linear Way
TURRET	Turret Type		Hydraulic / VDI 30	Hydraulic / VDI40 / BMT65
	No. of Tool Stations		10 / 12	10 / 12 / 12
	Size of External Turning Tool	mm (inch)	25 / 20 (0.98 / 0.78)	25 (0.98)
	Boring Bar Dia.	mm (inch)	Ø40 / Ø32 (Ø1.57) / (Ø1.25)	Ø40 (Ø1.57)
TAILSTOCK	Quill Dia.	mm (inch)	Ø65 (Ø2.55)	Ø90 (3.54)
	Quill Travel	mm (inch)	90 (3.54)	125 (4.92)
	Tailstock Travel	mm (inch)	410 (16.14)	675 (26.57)
	Quill Taper	mm (inch)	MT4	MT5
OTHERS	Electrical Power Supply	kva	20	30
	Coolant Tank Capacity	liters	200	200
	Coolant Flow	l / min	20	20
	Coolant Pressure	kg / cm²	2/5 (opt.)	2/5 (opt.)
	Total Height	mm (inch)	1952 (76.85)	2296 (90.39)
	Floor Space (L x W)	mm (inch)	3354 x 1696 (132.04 x 66.77)	4600 x 2500 (181.1 x 98.4)
	Net Weight	kg (lbs)	4000 (8818)	5600 (12345)

\* The above specifications are subject to change without prior notice.      \* M: with C-axis Fuction and Power Turret (optional)



STANDARD ACCESSORIES

- Fully Enclosed Splash Guard
- Central Automatic Lubrication System
- Tools And Tool Box
- Work Lamp
- Tri-colored Lamp Guard
- Cleaning Spray Gun
- Air Gun
- Coolant Tank
- X / Z Slide Way Extension Protecting Cover
- Horizontal Adjustment Block And Screw
- Electrical Box Heat Exchanger
- Automatic Shutdown Function
- Mechanical And Electrical Instructions
- Programmable Tailstock (YTL 101000)
- Chain Type Chip Conveyor

OPTIONAL ACCESSORIES

- Tool Setter
- Chuck Clamping & Unclamping Switch
- Oil Mist
- Programmable Tailstock (YTL 8540)
- Parts Catcher
- Bar Feeder
- Transformer
- Oil Skimmer
- Turret with Mill Function
- Y Axis Function (YTL 101000)
- Sub Spindle (YTL 101000)

OUTSIDE DIMENSIONS

