

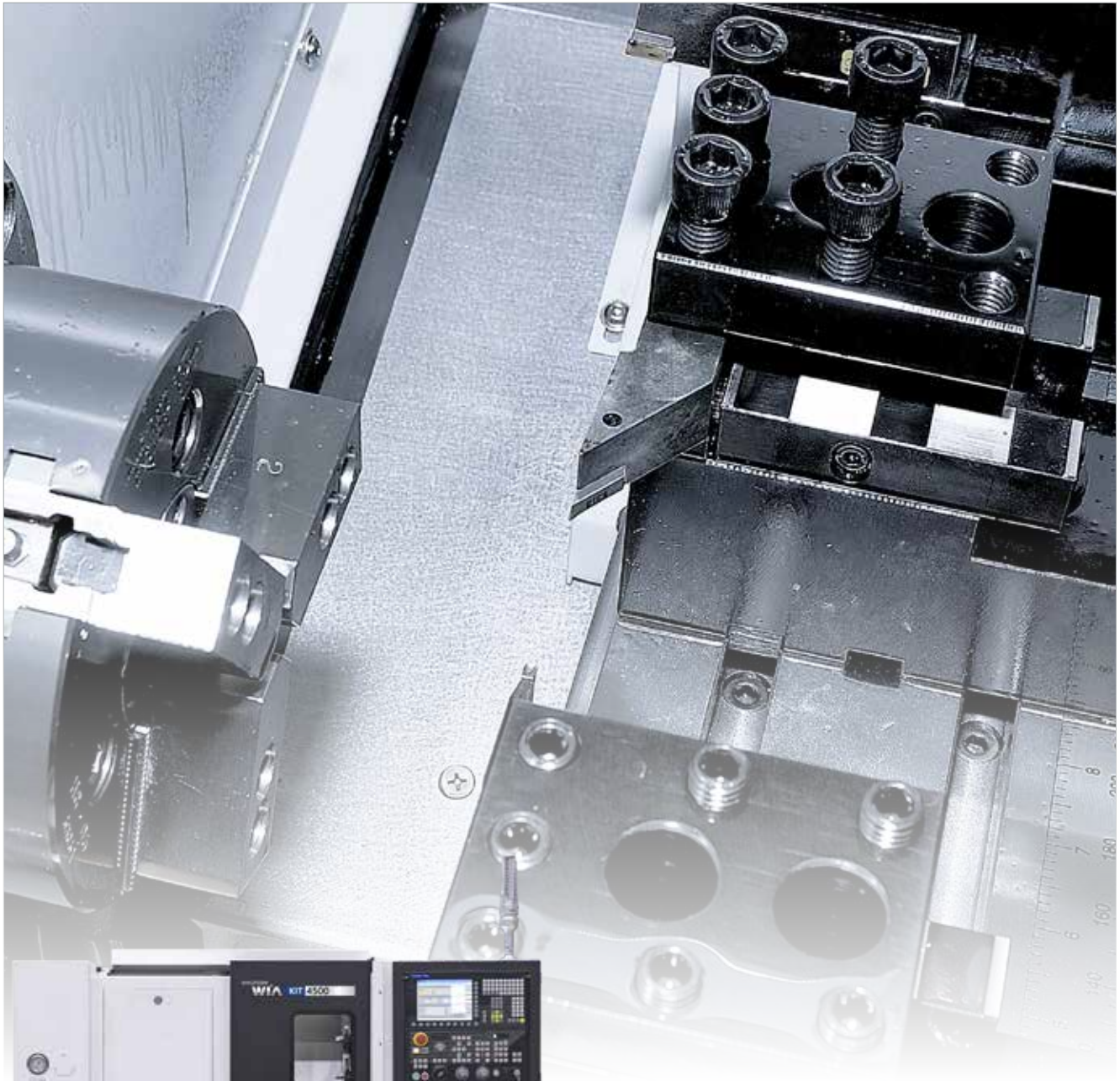
KIT4500

HYUNDAI WIA Gang Type CNC Turning Center



Technical Leader

The Gang Type CNC Turning Center KIT4500, designed by HYUNDAI WIA with years of expertise and the latest technology, is a gang tool CNC Turning Center and has maximized productivity by using a high speed, high performance mechanism.



KIT4500

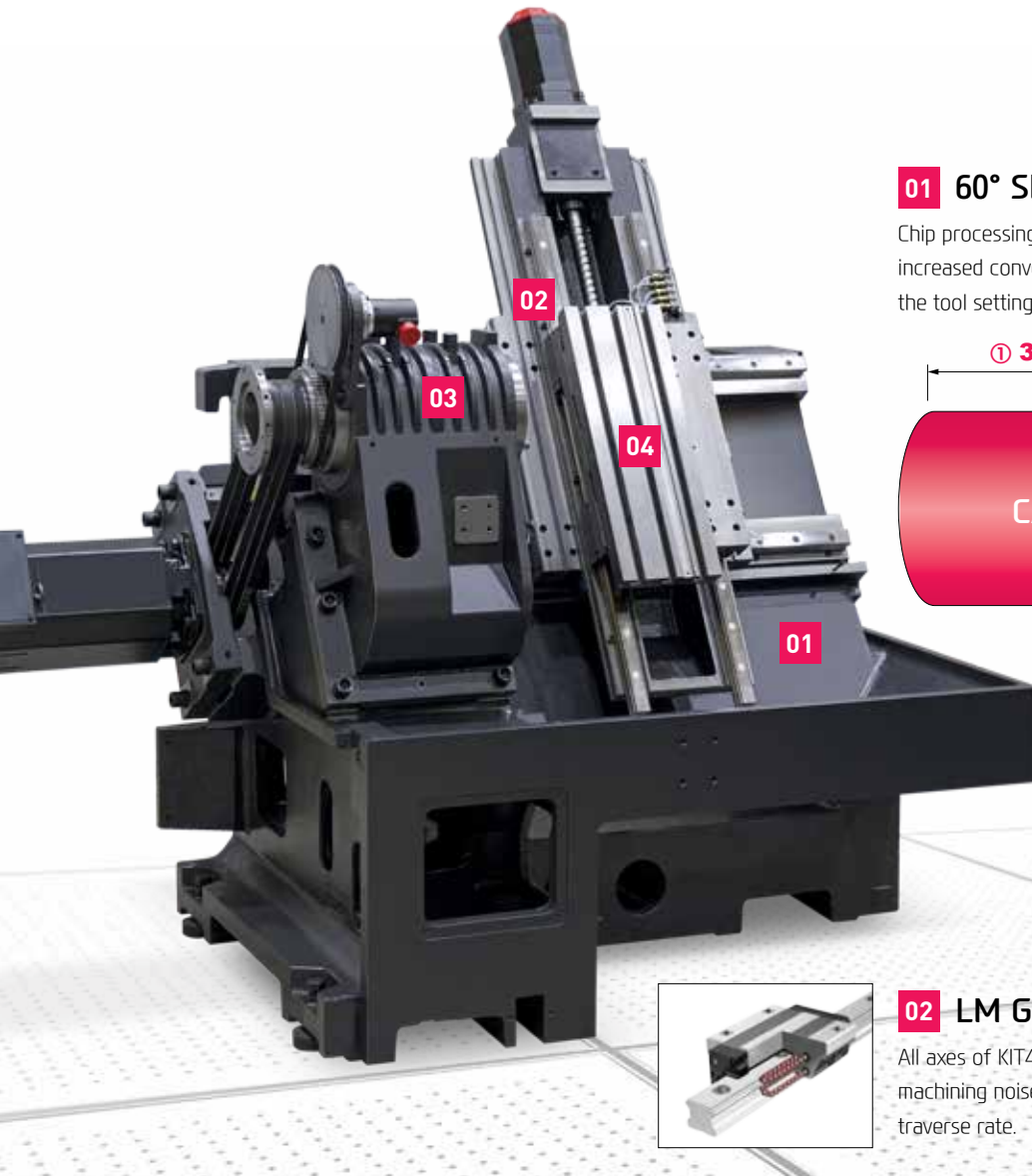
FANUC [HYUNDAI-TROL]

Max. Swing	mm(in)	Ø530 (30.9")
Bar Capacity	mm(in)	Ø51 (2")
Chuck Size	mm(in)	6"
Spindle Bore	inch	Ø61 (2.4")
Spindle Speed	r/min	6,000 [6,000]
Motor	kW(HP)	15/11 (20/15) [25/10.5 (33.5/14)]
Travel(X/Z)	mm(in)	450/300 (17.7"/11.8")
No. of Tool	EA	6

01 Basic Features

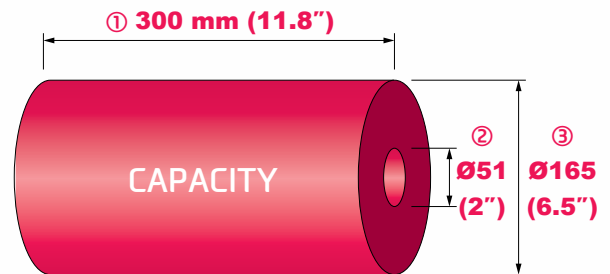
KIT4500

The Most Advanced Mechanism,
Revolutionized Productivity & High Performance



01 60° Slant Bed Structure

Chip processing is excellent by applying the bed in 60° slant with increased convenience due to easy access to the chuck during the tool setting.



- ① : Max. Turning Length
- ② : Bar Capacity
- ③ : Max. Turning Dia.



02 LM Guide

All axes of KIT4500 is designed with LM Guides. It reduces machining noise and enhances productivity through faster traverse rate.

Reduction of Non-Cutting Time by High Speed & Traverse Rate

- ⊙ **Rapid Traverse Rate** (X/Z axis) : **30/36** m/min (**1,181/1,417** ipm)
- ⊙ **Travel** (X/Z axis) : **450/300** mm (**17.7"/11.8"**)
- ⊙ **Max. Turning Dia.** : **Ø165 (Ø6.5")** ⊙ **Max. Turning Length** : **300** mm (**11.8"**)

High-Precision Spindle

Cutting Edge Design & Optimized Cutting Condition
Gang Type CNC Turning Center



Main Spindle

The high precision spindle is designed with angular contact ball bearings. The bearings minimize thermal displacement even at high speeds.

60° Slant Spindle

The spindle of KIT4500 is the 60° slant bed in the same angle as the gang table for the spindle attaching surface to minimize the machining tolerance due to thermal displacement.

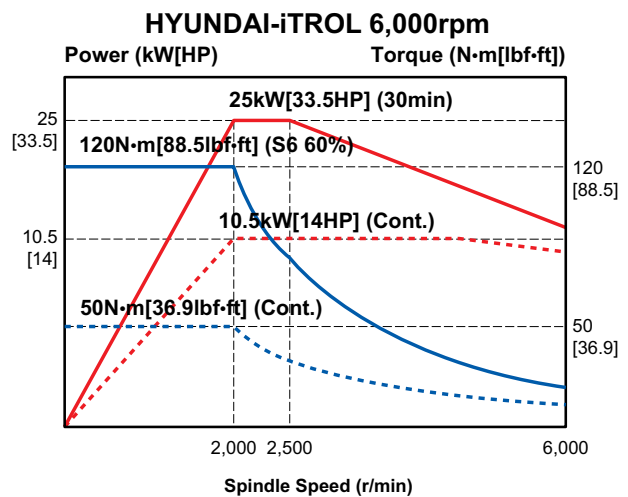
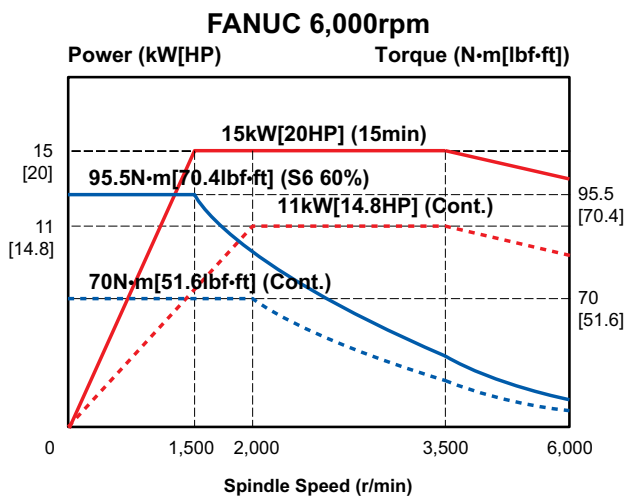
- ◉ Composite thermal displacement : **40% Reduction**

Application of V-Ribbed Belt

The belt slip is reduced by changing the existing scrum belt to the V-ribbed belt. The span between motors in the spindle is optimized to improve the spindle vibration and belt life.

- ◉ Chuck Size : **6"**
- ◉ Spindle Speed : **6,000 [6,000]** rpm
- ◉ Max. Output : **15 [25]** kW (**20 [33.5]** HP)
- ◉ Max. Torque : **95.5 [120]** N·m (**70.4 [88.5]** lbf·ft)

[] : HYUNDAI-iTROL



03 Performance Improves

KIT4500

High Precision Mechanism Powerful Gang Type CNC Turning Center



Reduced Tool Change Time

Productivity is increased by shortening the non-machining time through applying the gang type block tool where no tool exchange is required.



Block Tool

- No. of Tool : 6 EA
- Table Size : 550×200 mm (21.7"×7.9")
- Tool Size (O.D/I.D) :
 - 20/Ø32 mm (□ 0.8"/Ø1.3")

Workability and performance increase

● Expansion of bar capacity

Previous Machine	Ø45 (Ø1.8")
KIT4500	Ø51 (Ø2") Ø6 (Ø0.2") UP

● Shortening of Work Preparation Time

Your productivity can be increased by shortening the work preparation time when the high-tech CNC of HYUNDAI WIA 'HYUNDAI-ITROL' is applied

Previous Machine	230 sec
KIT4500	180 sec 50 sec

● Stepless X-axis Slide Cover

Durability is increased without damage from chip jamming by changing the X axis slide cover from the existing 5 step slide cover to the Stepless slide cover.



● Independent Separation of Coolant Tank

Workability has been greatly improved as the independent disassembly is possible while the chip shoot and chip conveyor are installed.

SPECIFICATIONS

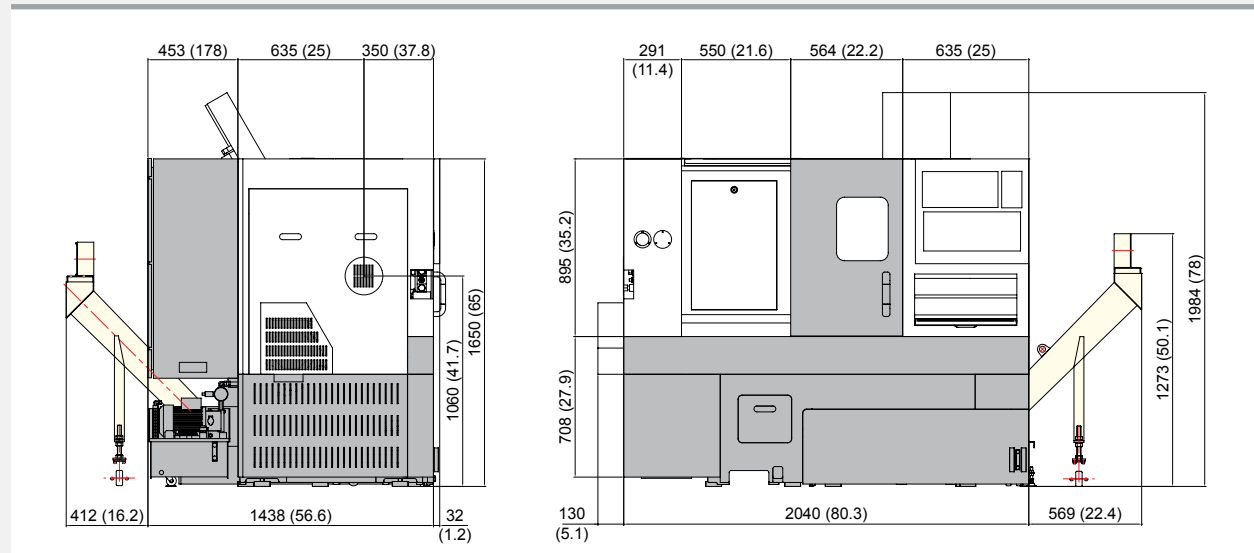
Specifications

ITEM			KIT4500
CAPACITY	Swing Over the Bed	mm(in)	Ø530 (20.9")
	Max. Turning Dia.	mm(in)	Ø165 (6.5")
	Max. Turning Length	mm(in)	300 (11.8")
	Bar Capacity	mm(in)	Ø51 (2")
SPINDLE	Chuck Size	inch	6"
	Spindle Bore	mm(in)	Ø61
	Spindle Speed (rpm)	r/min	6,000 [6,000]
	Motor (Max/Cont.)	kW(HP)	15/11 (20/15) [25/10.5(33.5/14)]
	Torque (Max/Cont.)	N·m(lbf·ft)	95.5/70 (70.4/51.6) [120/50 (88.5/36.9)]
	Spindle Belt Type	-	V-RIBBED BELT
	Spindle Nose	-	A2-5
FEED	Travel (X/Z)	mm(in)	450/300 (17.7"/11.8")
	Rapid Traverse Rate (X/Z)	m/min(ipm)	30/36 (1,181/1,417)
	Slide Type	-	LM GUIDE
GANG TABLE	No. of Tool	ea	6
	Tool Size (O.D./I.D.)	mm(in)	□ 20 / Ø32 (□ 0.8"/Ø1.3")
MACHINE	Floor Space (L×W×H)	mm(in)	2,170×1,470×1,984 (85.4"x57.9"x78")
	Weight	kg(lb)	2,800 (6,173)
PC	Controller	-	HYUNDAI WIA FANUC i Series [HYUNDAI-iTROL]

Specifications are subject to change without notice for improvement.

External Dimensions

unit : mm(in)



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