

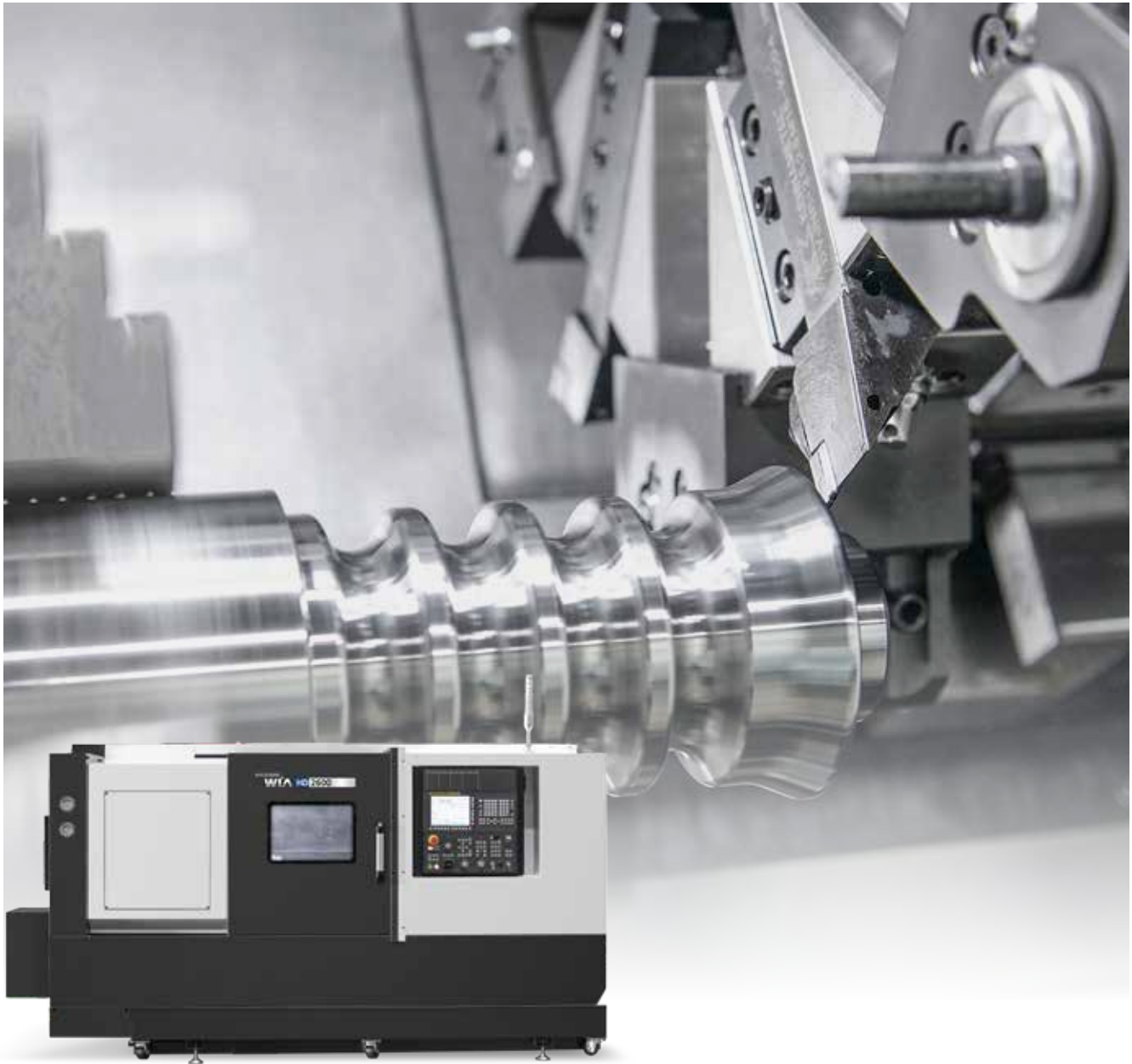
HD2600/3100

HYUNDAI WIA CNC Turning Center



Technical Leader

The CNC Turning Center HD2600/3100, designed by Hyundai WIA with years of expertise and the latest technology, is a Turning Center that maximizes productivity and performance.

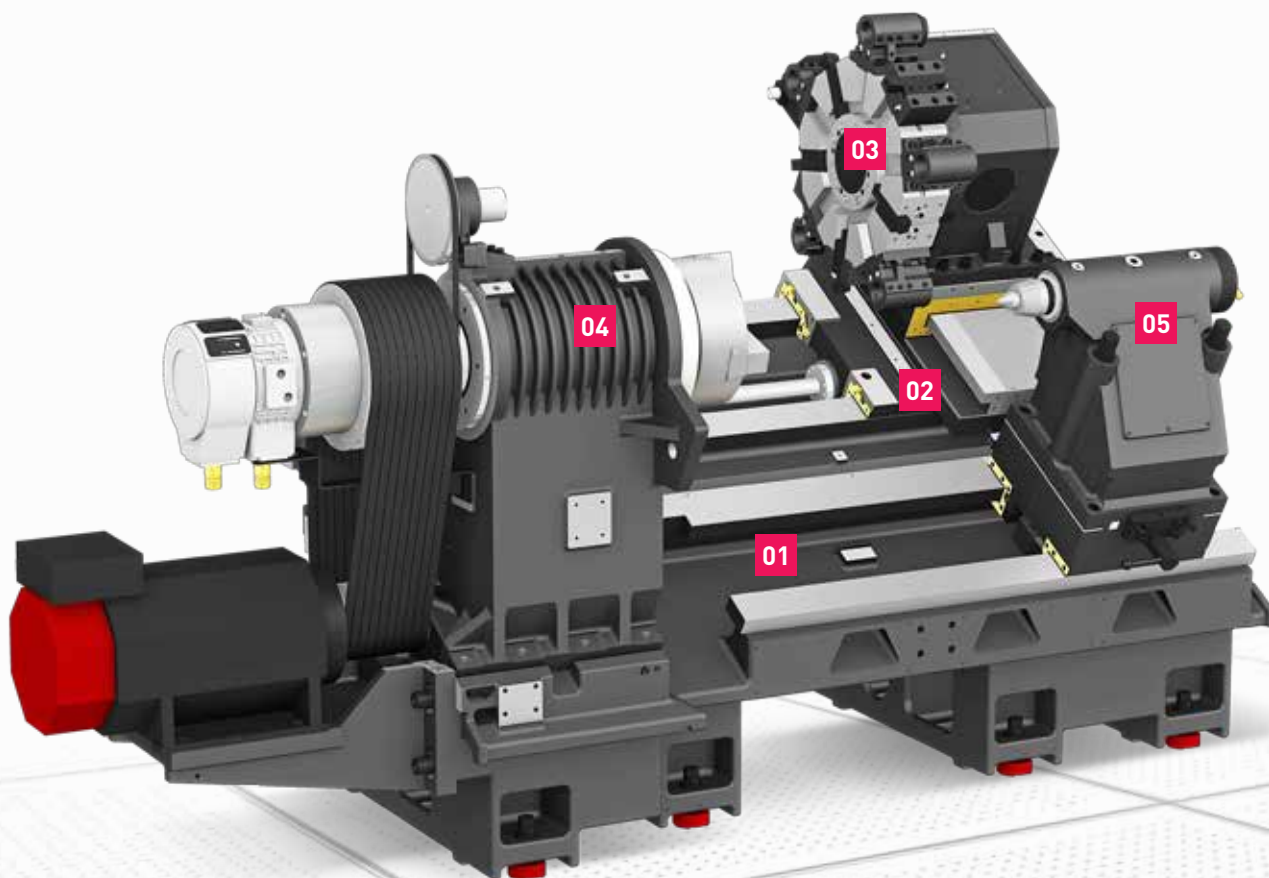


MODEL		HD2600	HD3100
Swing Over the Bed	mm(in)	Ø630 (24.8")	Ø750 (29.5")
Max. Turning Length	mm(in)	659 (25.9")	780 (30.7")
Chuck Size	inch	10"	12"
Bar Capacity	mm(in)	Ø81 (3.2")	Ø102 (4")
Speed (rpm)	r/min	3,500	2,800
Motor (Max.)	kW(HP)	26/18.5 (34.9/24.8)	26/18.5 (34.9/24.8) [35/22 (46.9/29.5)]
Travel(X/Z)	mm(in)	265/680 (10.4"/26.8")	265/830 (10.4"/32.7")
No. of Tools	EA	10 [12]	

[OPTION]

Basic Features

The Best Productivity Popular 10 & 12 inch Heavy Duty Cutting CNC Turning Center



Integrated Coolant Tank

The coolant tank is installed at the front of the bed to prevent leakage, enabling stable machining with the use of high pressure coolant.

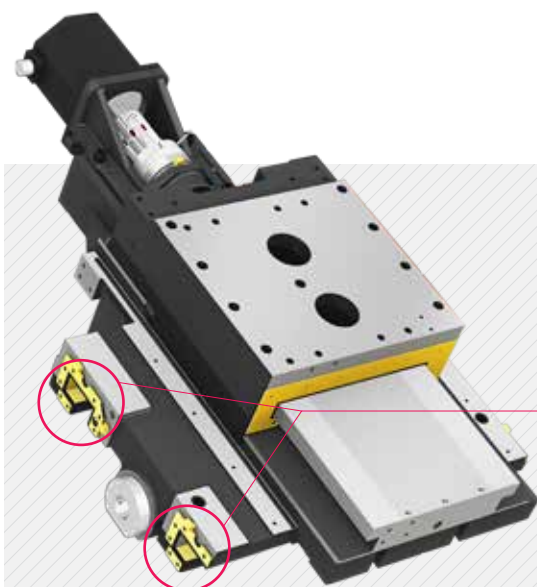
01 Optimal Structural Analysis

Through the structural analysis, it is designed to maintain dynamic-rigidity even during the heavy-duty cutting by increasing tool post body size and reducing the machine height.

In addition, HD2600/3100 has a 30° of bed angle, which is advantageous for more stable processing.

Tool tip rigidity enhancement

HD2600	Z-axis : 17% UP	Y-axis : 49% UP
HD3100	Y-axis : 20% UP	



02 All Axes Box Guideway

All axes of HD2600/3100 are designed with Box Guideways for better travel ability. Box Guideways show great performance in offsetting vibrations caused by heavy duty cutting.

◀Travel capacity enhancement through 6-side covered design▶

Sealed GIB Structure

X-axis of HD2600/3100 is designed to minimize the damage of turcite from chips by applying the sealed GIB structure.

Ball Screw

All axes are driven by high precision double anchored ballscrews. This provides outstanding positioning and repeatability with virtually no thermal growth. All ballscrews are connected directly to the servo drive motors, to eliminate backlash.



⦿ **Rapid Traverse Rate** (X/Z axis) : **24/30** m/min (**945/1,181** ipm)

⦿ **Travel** (X/Z axis) HD2600 : **265/680** mm (**10.4"/26.8"**) HD3100 : **265/830** mm (**10.4"/32.7"**)

03 High Rigidity Turret for Heavy-duty Cutting

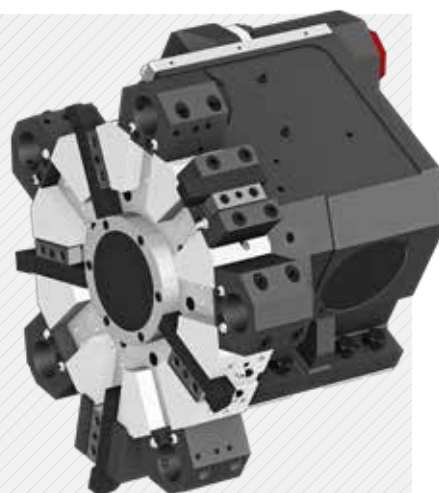
Turret is designed to complement the rigidity to process heavy-duty products easily. In addition, we increased the disk width of the turret to reinforce the rigidity.

⦿ **No. of Tools** : **10 [12]** EA

⦿ **Tool Size** (O.D/I.D) : □ **25/Ø50** mm (□ **1"/ Ø1.6"**)

⦿ **Indexing Time** (1-Step) HD2600 : **0.17** sec HD3100 : **0.22** sec

⦿ **Disk Width Expand**

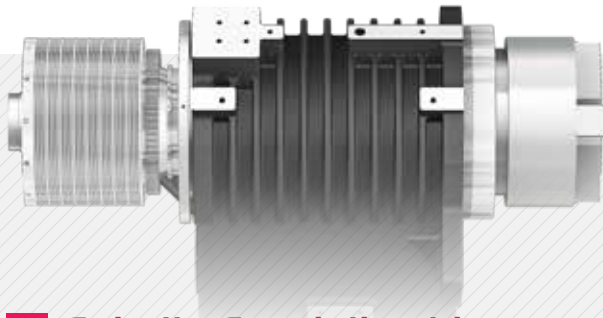


HD2600	90 mm (3.5")	20% UP
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HD3100	120 mm (4.7")	20% UP	◀Static-rigidity increased : I.D 20%, O.D 3% UP▶
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High-Precision Spindle

Long Lasting High Accuracy & Excellent Performance
CNC Turning Center



04 Spindle Specialized in Rigid Cutting

HD2600/HD3100 has each torque of 734N·m(541.4lbf·ft) and 1,123N·m (828.3lbf·ft) to perform rigid and intermittent cutting excellently.

Especially, HD3100 model provides gear spindle option {1,613N·m (1,189.7lbf·ft)} to satisfy various customer needs.

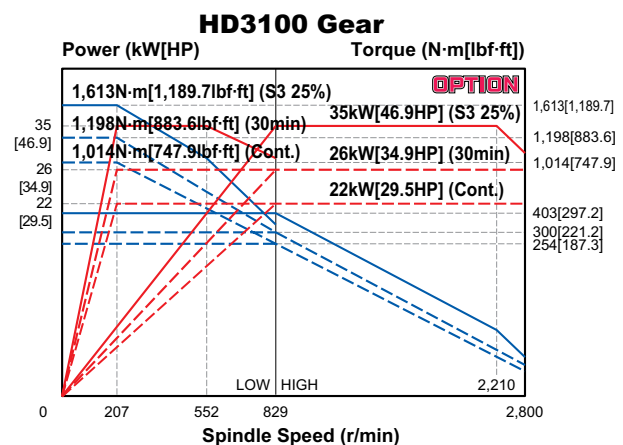
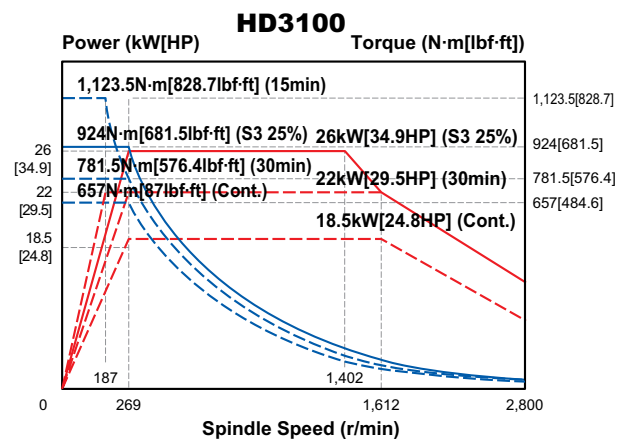
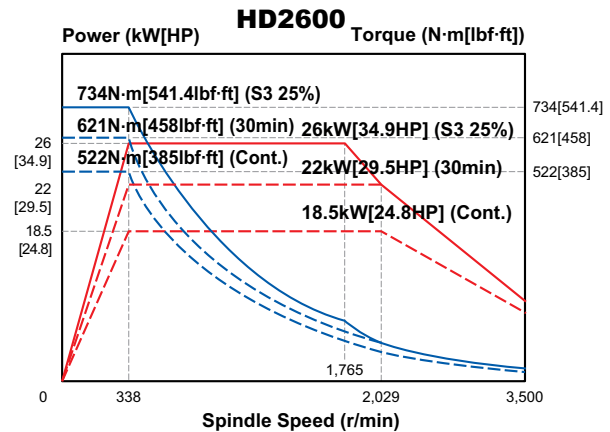
Ribstar-type Belt

Machining precision and spindle noise problem has enhanced by complementary of stick-slip problem in low speed section.

05 Tail Stock

Tailstock enables stable machining of high quality products where quill travels up to 120mm (4.7").

- ◉ Quill Type : **MT#5**
- ◉ Quill Dia. : **Ø100 mm (3.9")**
- ◉ Quill Travel : **120 mm (4.7")**
- ◉ Tail Stock Reinforcement :
Thrust **742 kgf (1,636 lbf) → 989 kgf (2,180 kgf)**
(standard : 35kg/cm² pressure)



SPECIFICATIONS

Specifications

[] : Option

MODEL			HD2600	HD3100
CAPACITY	Swing Over the Bed	mm(in)	Ø630 (24.8")	Ø750 (29.5")
	Max. Turning Dia.	mm(in)	Ø460 (18.1")	Ø500 (19.7")
	Max. Turning Length	mm(in)	658 (25.9")	780 (30.7")
	Bar Capacity	mm(in)	Ø81 (3.2")	Ø102 (4")
Spindle	Chuck Size	inch	10"	12"
	Spindle Bore	mm(in)	Ø91 (3.6")	Ø115 (4.5")
	Spindle Speed (rpm)	r/min	3,500	2,800 [2,800]
	Motor (Max/Cont.)	kW(HP)	26/18.5 (34.9/24.8)	26/18.5 (34.9/24.8) [35/22 (46.9/29.5)]
	Torque (Max)	N·m(lbf·ft)	734 (541.4)	1,123 (828.3) [1,613 (1,189.7)]
	Spindle Type	-	BELT	BELT [GEAR]
	Spindle Nose	-	A2-8	A2-11
Feed	Travel (X/Z)	mm(in)	265/680 (10.4"/26.8")	265/830 (10.4"/32.7")
	Rapid Traverse Rate (X/Z)	m/min (ipm)	24/30 (945/1,181)	
	Slide Type	-	BOX GUIDE	
Turret	No. of Tools	ea	10 [12]	
	Tool Size (O.D/I.D)	mm(in)	□ 25/ Ø50 (□ 1" / Ø2")	
	Indexing Time (1-Step)	sec	0.17	0.22
TAIL STOCK	Taper	-	MT#5	
	Quill Travel	mm(in)	120 (4.7")	
	Quill Dia.	mm(in)	Ø100 (3.9")	
MACHINE	Floor Space (L×W)	mm(in)	3,400×1,708 (133.9"×67.2")	3,885×1,800 (153"×70.9")
	Height	mm(in)	1,755 (69")	1,850 (72.8")
	Weight	kg(lb)	5,800 (12,787)	6,000 (13,228)
CNC	Controller	-	HYUNDAI WIA FANUC i Series	

Specifications are subject to change without notice for improvement.

External Dimensions

unit : mm (in)

