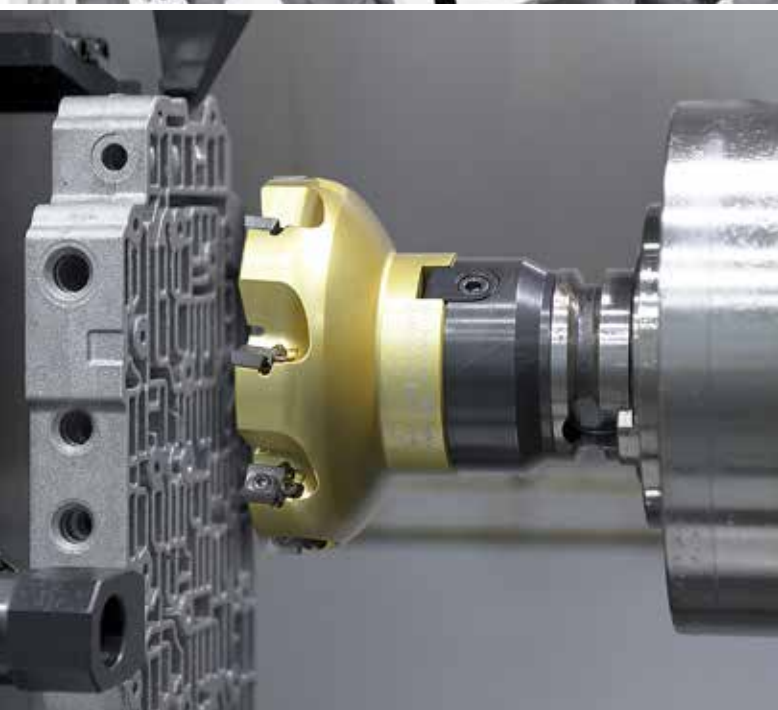
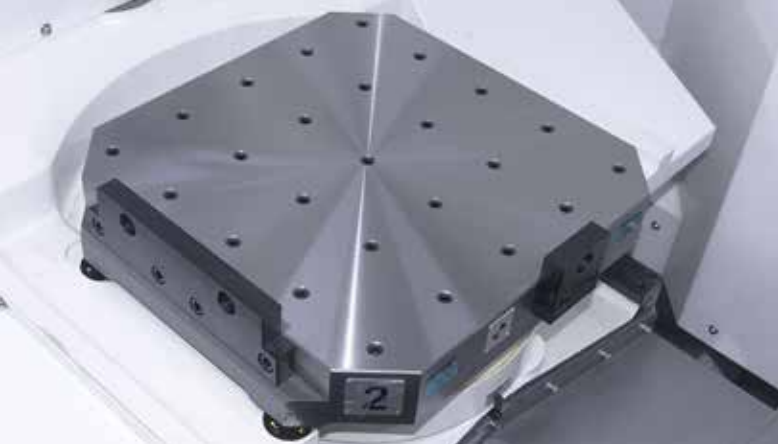


HS6300/8000

HYUNDAI WIA Horizontal Machining Center







Technical Leader

Horizontal Machining Center HS6300/8000, designed by Hyundai WIA with years of expertise and the latest technology, provides high speed, high performance and maximum productivity.

HS6300

[] : Option

Pallet Size	mm(in)	2-630×630 (2-24.8"×24.8")
Max. Load Capacity	kg(lb)	2-1,200 (2-2,645.5)
Spindle Taper	-	BIG PLUS #50 [HSK-A100]
Spindle RPM	r/min	8,000 [8,000] [12,000]
Spindle Output	kW(HP)	22/18.5 (29.5/24.8) [26/22 (34.9/29.5)] [30/25 (40.2/33.5)]
Travel(X/Y/Z)	mm(in)	1,050/875/875 (41.3"/34.4"/34.4")

HS8000

[] : Option

Pallet Size	mm(in)	2-800×800 (2-31.5"×31.5")
Max. Load Capacity	kg(lb)	2-1,600 (2-3,527.4)
Spindle Taper	-	BIG PLUS #50 [HSK-A100]
Spindle RPM	r/min	8,000 [8,000] [12,000]
Spindle Output	kW(HP)	22/18.5 (29.5/24.8) [26/22 (34.9/29.5)] [30/25 (40.2/33.5)]
Travel(X/Y/Z)	mm(in)	1,050/875/875 (41.3"/34.4"/34.4")



The Revolutionary Next Generation
High Performance Machining Center

HS6300 | 8000

- High speed, High rigidity roller guideways on all axes
- 2 step geared motor for heavy duty cutting
- Built-in spindle for high speed (12,000rpm, Option)
- Standard Big Plus spindle system
- Minimized installation space for optimal factory layout



High Speed Machining Center

To decrease non-cutting time, large linear roller guideways are applied giving excellent acc/deceleration performance and high rigidity. Ballscrews in each axis are directly connected to reliable digital servo motor thus improving feed accuracy.





HYUNDAI WIA
MACHINE TOOL

HS6300/8000
Horizontal Machining Center



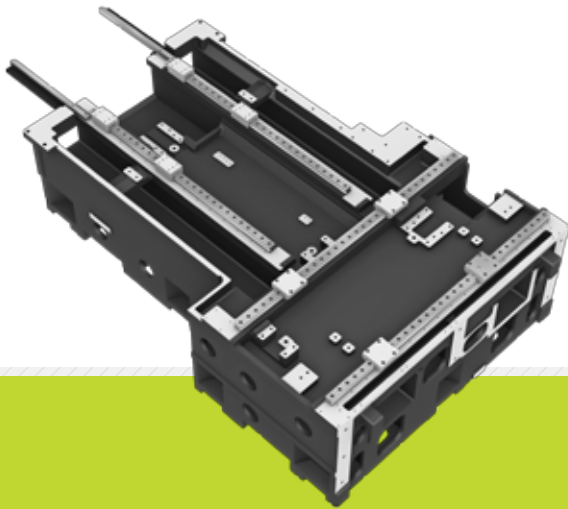
04
+
05

01

HS6300/8000

Basic Features

The Most Advanced Mechanism,
Revolutionized Productivity & High Performance



HS6300/8000

Through Hyundai WIA's unique structural analysis, these horizontal machining centers are optimally designed for increased rigidity while reducing heat displacement and machine vibration.

01

Reverse "T" Type Bed

The 'T' structure of the bed is designed with ample bed height and casting thickness to ensure the optimal level of rigidity.

02

Spindle

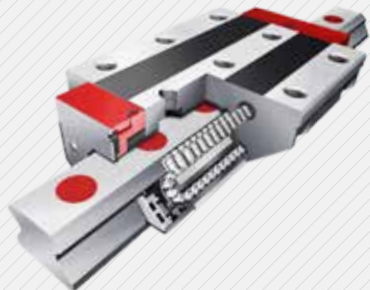
HS6300/8000 is designed with a gear drive, which provides high torque at low rpm and stability at high rpm and this enables a wide range of machining.



03

High Speed Roller Guideway

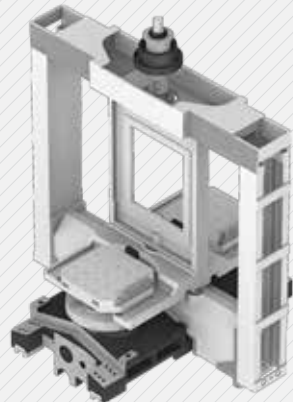
HS6300/8000 applies large linear roller guideways to reduce non-cutting time and bring high rigidity.



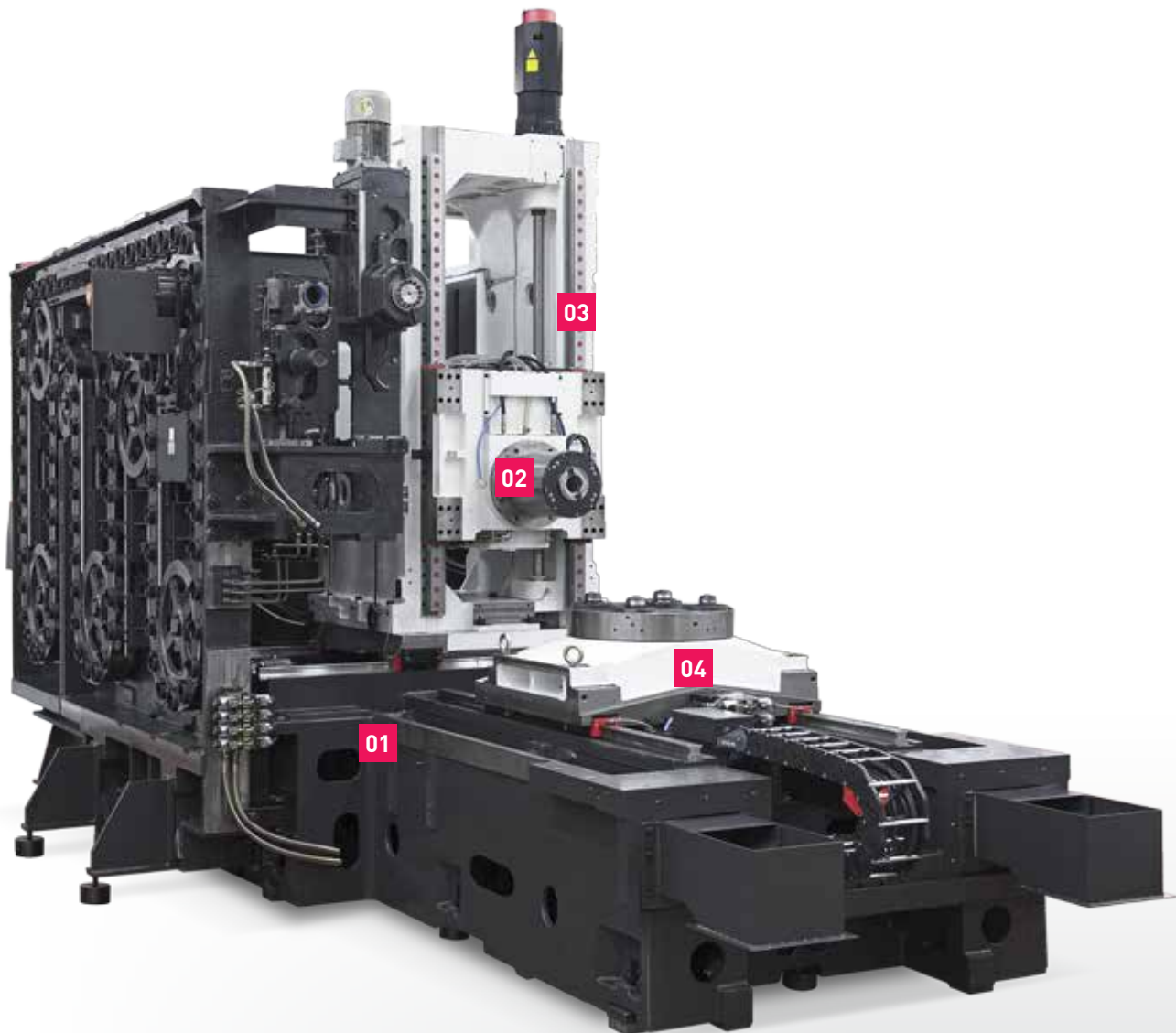
04

Rotary Type APC

Pallet change time is minimized by applying automatic pallet change device.



Basic Features



High Precision & High Speed Horizontal Machining Center

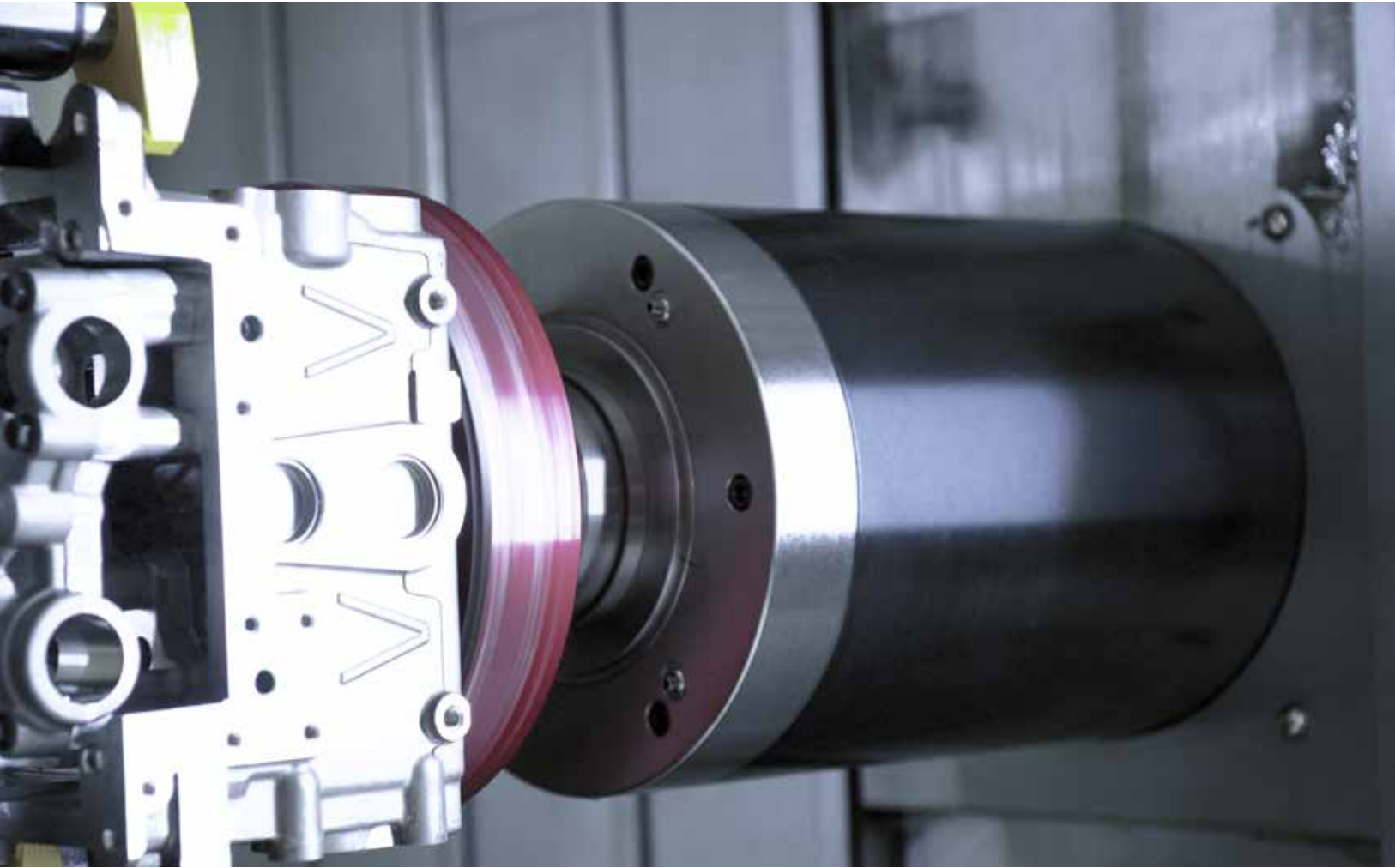
- ◎ **Rapid Traverse Rate** (X/Y/Z axis) : 50/50/50 m/min (1,968/1,968/1,968 ipm)
- ◎ **Travel** (X/Y/Z axis) : 1,050/875/875 mm (41.3"/34.4"/34.4")
- ◎ **Spindle Speed** : 8,000 [8,000] [12,000] rpm
- ◎ **Spindle Output** (Max./Cont.) :
22/18.5 [26/22] [30/25] kW (29.5/24.8 [34.9/29.5] [40.2/33.5] HP)

02

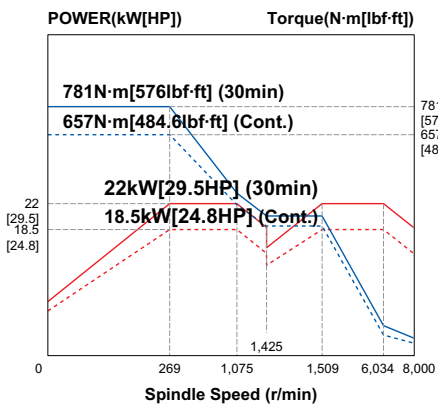
HS6300/8000

High Precision Spindle

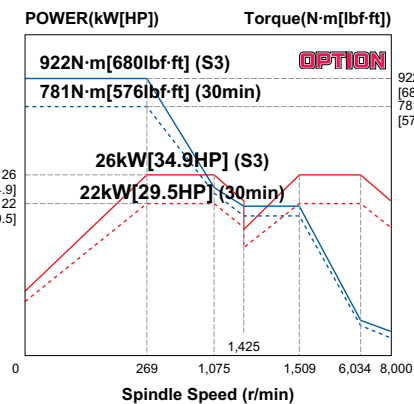
Cutting Edge Design & Optimized Cutting Condition
Horizontal Machining Center



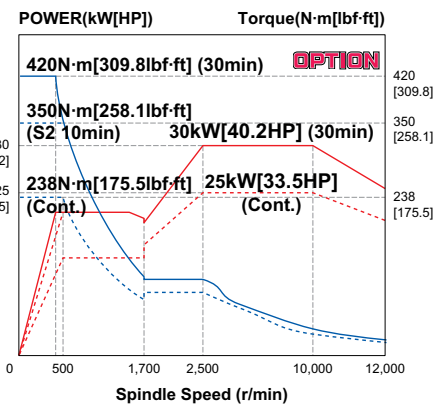
8,000rpm Gear



8,000rpm Gear



12,000rpm Built-in

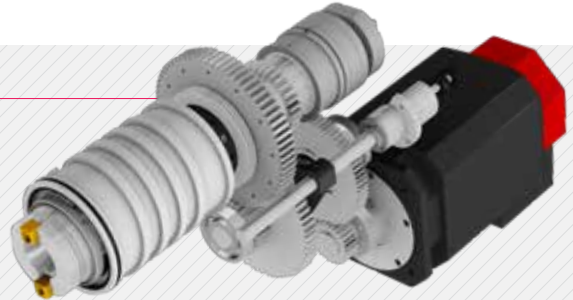


Gear Type Spindle

the gear type spindle provides powerful torque at low speeds and stable rotation at high speeds and this enables wide range of machining.

The spindle uses angular ball bearings and is designed to maximize rigidity. Also, powerful tool clamping force improves cutting ability.

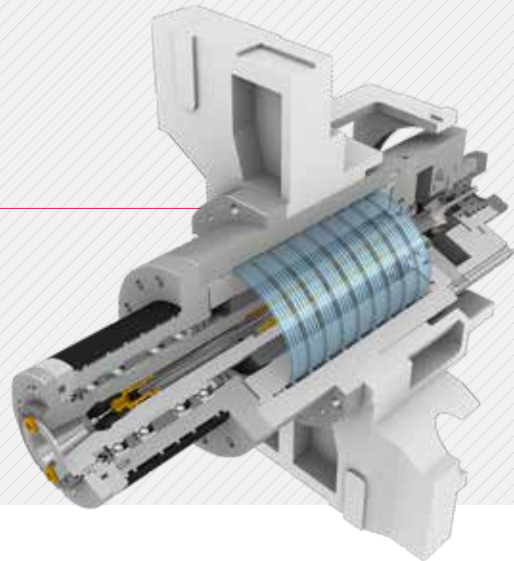
The AC spindle motor with max. power of **22kW(29.5HP)** and max. speed of **8,000rpm** is suitable for heavy duty cutting and high speed machining. The spindle's oil cooling system is designed to minimize thermal displacement.



Built-in Spindle OPTION

By using ultra precision class angular ball bearings, fast acc/ deceleration of the main spindle is achieved. The spindle head is designed to minimize heat displacement therefore reducing heat generation and making it possible to maintain high accuracy.

Spindle temperature is controlled by the using spindle oil chiller.

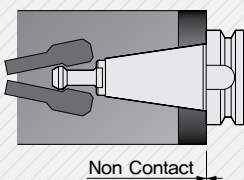


20 bar / 30 bar / 70 bar
(290 psi / 435 psi / 1,015 psi)

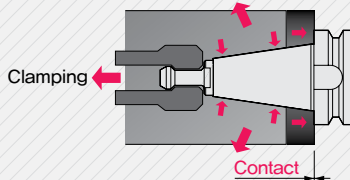
Through Spindle Coolant OPTION

Through Spindle Coolant is exceedingly useful when drilling deep holes. It helps increase the lifetime of the tool, while decreasing cycle time

Before Clamping



After Clamping



Dual Contact Spindle

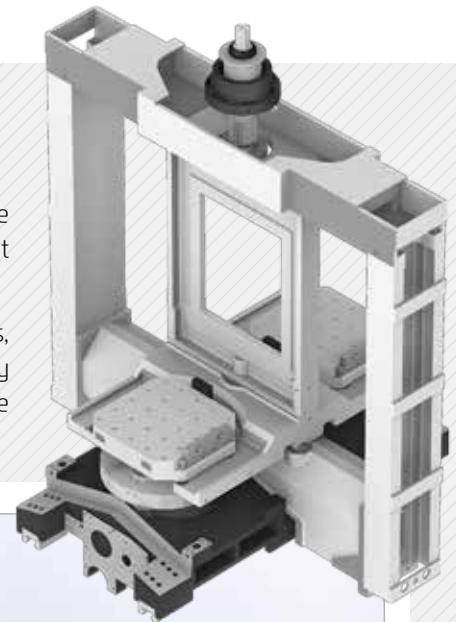
The Big Plus spindle system (BBT#50) provides dual contact between the spindle face and the flange face of the tool holder.

- ❖ The increase in standard diameter improves stiffness and ATC repeatability, and Z-axis displacement is prevented which further extends tool life.

APC & Pallet

HS6300/8000 provides a rotary shuttle APC(automatic pallet changer) as standard. The loading station pallet can be rotated and locked in 90° increments for convenient loading/unloading of workpieces.

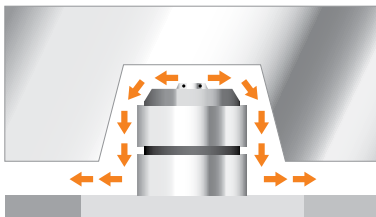
Locating cones at the positioning base are used for pallet clamping. Inside the cones, there are clamping devices for powerful clamping of pallets which is suitable for heavy duty cutting. 1° index table is applied with high precision curvic coupling for accurate indexing.



⊙ B Axis Index Angle

Std. : 1°

Opt. : 0.001°



Air Clearing System

During the pallet change cycle, strong air blasts from the taper cones on the machine table help remove chips and provide a clean surface for locating the pallet. This ensures high accuracy of pallet positioning and guarantees optimum rigidity.



Tap Type Pallet

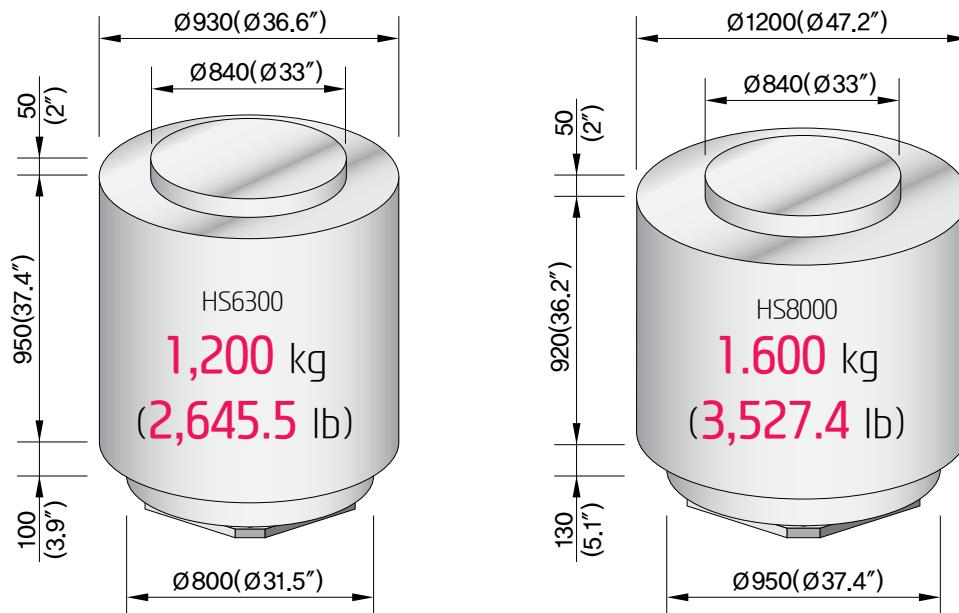


T-Slot Type Pallet **OPTION**

Various Pallet Types

Standard tap type and optional T-slot type pallet are available for various fixtures.

Work Area



ATC & Magazine

The tool magazine holds 40 tools as standard and up to 120 tools as an option depending on the model. Servo control, fixed address tool selection method and a separate magazine control panel enhance user convenience.

The twin arm ATC provides fast and reliable tool change to reduce non-cutting time.

Magazine Controller >>



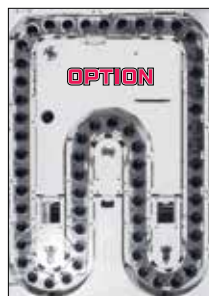
Machine Dimensions According to Magazine Selection

40 Tool : 5,081 mm (200") 60 Tool : 5,471 mm (215.4")
 90 Tool : 6,495 mm (255.7") 120 Tool : 7,519 mm (296")

40 Tool



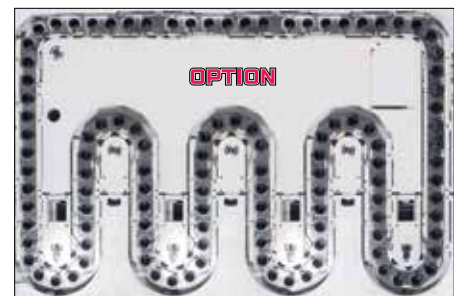
60 Tool



90 Tool



120 Tool



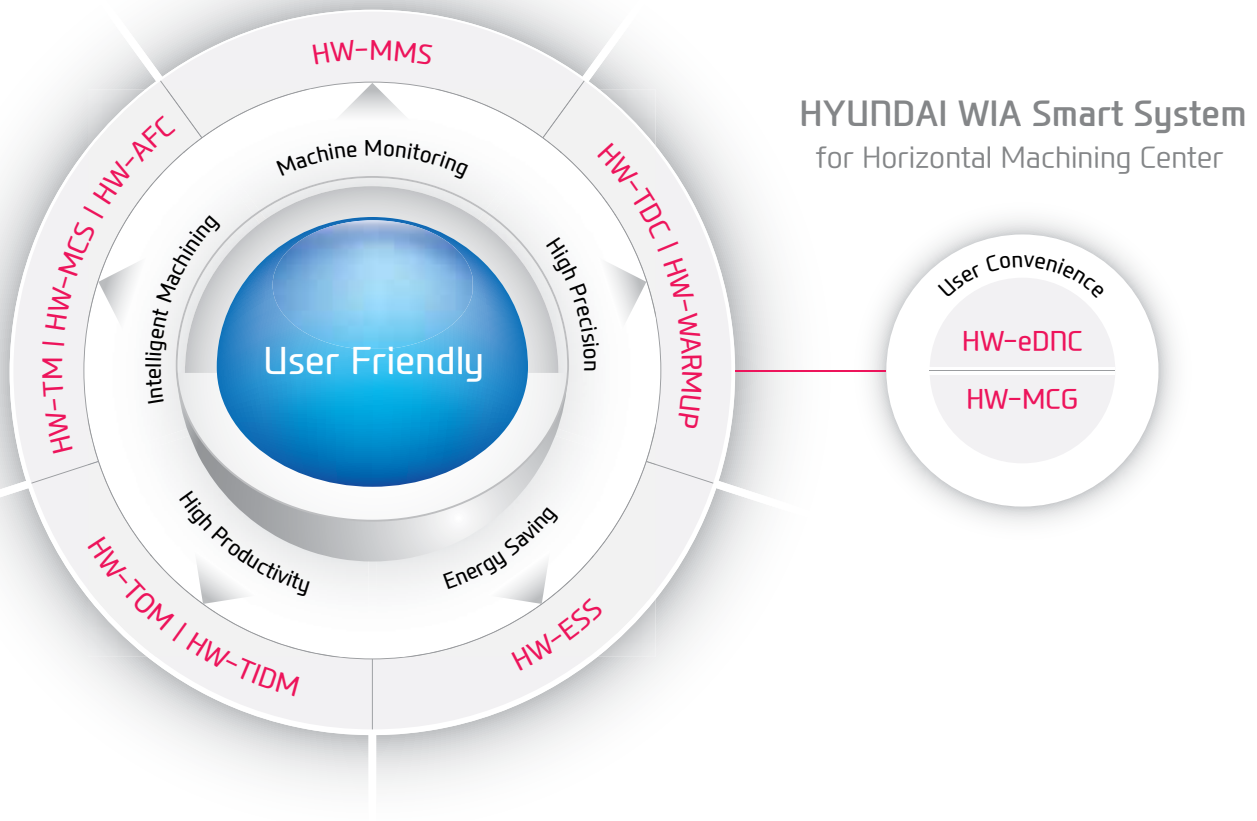
n3
HS6300/8000

Smart System



Software for Smart Operating and Machining

Faster processing and enhanced accuracy in are possible through the **HYUNDAI WIA Smart System**. The user friendly software and equipment monitoring of the Smart System maximizes productivity.



HW-AFC
HYUNDAI WIA
Adaptive Feed Control

Software that controls the feed automatically to maintain a certain working load to extend tool life as well as productivity.



HW-MCS
HYUNDAI WIA
Machining Condition Selection

Software that automatically sets cutting and feeding parameters according to the machining types (speed, degree, quality)

Smart Factory HW-MMS (HYUNDAI WIA-Machine Monitoring System)

A brand new manufacturing machine by HYUNDAI WIA, HW-MMS is a unique software capable of monitoring the operation status of manufacturing machines in factories, a smart solution to improve manufacturing conditions of customers.



- 01 Real-time monitoring of machine operation status (Cloud)
- 02 History and statistics of machine operation (Cloud)
- 03 History and statistics of alarm occurrence (Cloud)
- 04 History and statistics of work count (Cloud)
- 05 Remote diagnosis (Remote)



HW-MCG
HYUNDAI WIA
Machine Guidance

Software that offers operation, maintenance, management monitoring and various user friendly features.



HW-TDC
HYUNDAI WIA Thermal
Displacement Compensation

Software that measures the changes in the external environment as well as heat emission during processing to help reduce thermal displacement.



HW-WARMUP
HYUNDAI WIA
WARMing Up

Warm-up software that measures main spindle halt and offers system warm-up time automatically.



HW-ESS
HYUNDAI WIA
Energy Saving System

An environmental friendly software that reduces the unnecessarily wasted standby power waiting for an operation.



HW-TOM
HYUNDAI WIA
Tool Offset Measurement

User friendly GUI software that indicates tool length, diameter, and damage (H/W excluded)



HW-TM
HYUNDAI WIA
Tool Monitoring

A tool monitoring software which analyzes the load of the spindle motor to determine and monitor possible damage of tools.

04

HS6300/8000

User Convenience

Various Devices for User Convenience

Measuring Device **OPTION**

Touch Sensor

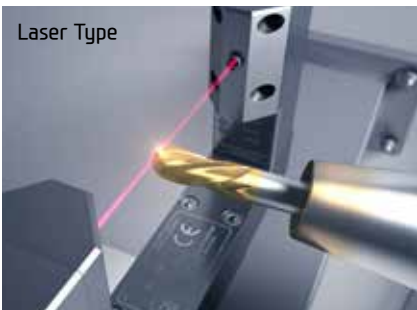
Workpiece coordinate values can be set automatically using the optional spindle probe.



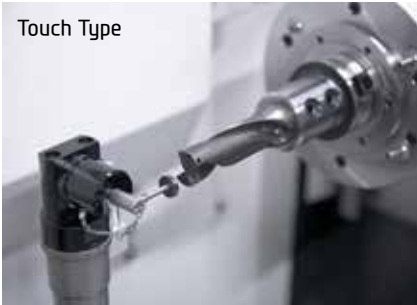
TLM – Laser & Touch

Tool lengths and diameters can be set automatically using the optional tool setter. This can also be used to monitor attrition and detect broken tools.

Laser Type



Touch Type



Precision Device **OPTION**

Linear Scale & Rotary Scale

Linear scale and rotary scale help process highly accurate products through precise positioning.

Linear Scale



Rotary Scale



Environment Device **OPTION**

Oil Skimmer

An oil skimmer can increase coolant and tool life by removing tramp oil contaminants.



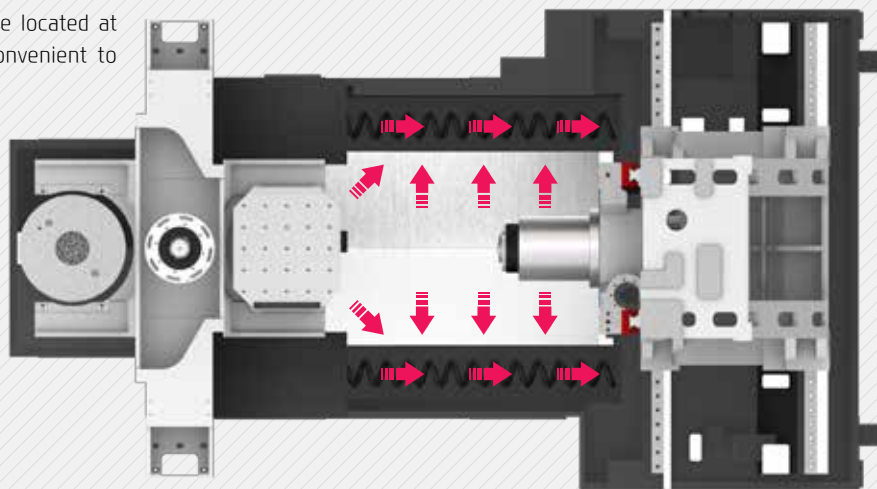
Mist Collector

Mist Collector reduces the amount of smoke and oil mist in the air. This helps build a safe and comfortable working environment and improve durability.



Cabin Screw Chip Conveyor

Dual screw type chip conveyors are located at each side of the bed making it convenient to remove chips.



Timely and effective disposal of chips will enhance productivity as well as the working environment.

- **Hinge Belt Type** : Highly efficient when disposing a lot of chips. Capable of handling stringy chips. **(Long Chip)**
- **Scraper Type** : Convenient for shortly cut chips. **(Short Chip)**
- **Drum Filter Type** : Advantageous in precision, as the chips do not flow in to the coolant nozzle. **(AL Chip)**

05

HS6300/8000

Automation System

Automatic Solutions to Improve Productivity

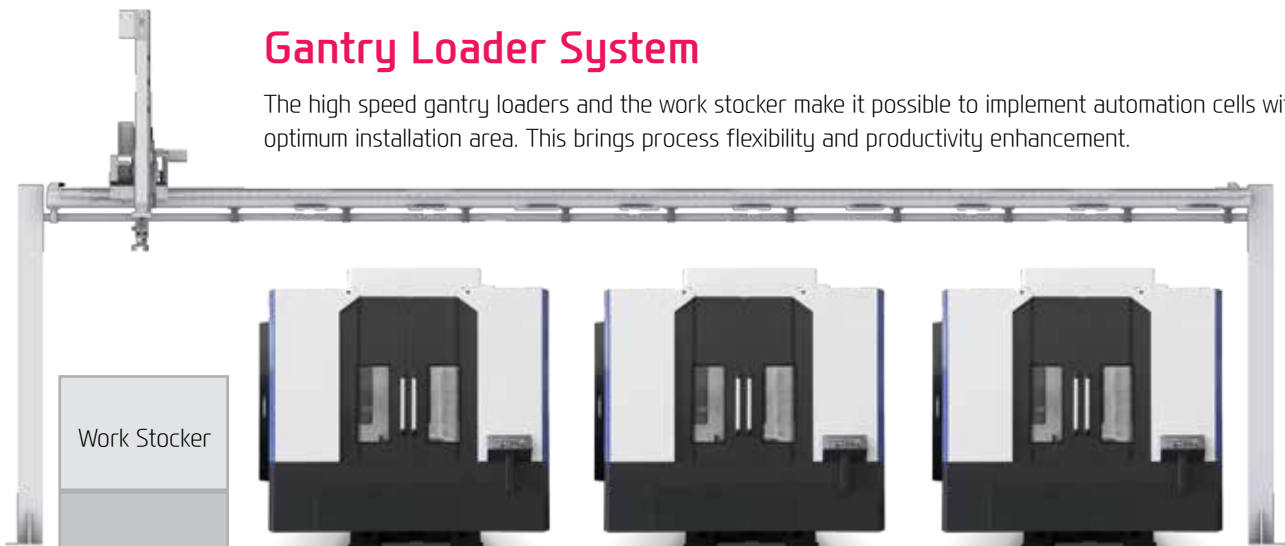


Automation System

Through the experience gained from manufacturing machine tools and automobile parts for decades, Hyundai WIA can offer its expertise in designing and installing automation systems. Using advance technology, Hyundai WIA is able to maximize output by increasing system efficiency.

Gantry Loader System

The high speed gantry loaders and the work stocker make it possible to implement automation cells with optimum installation area. This brings process flexibility and productivity enhancement.



6PPL

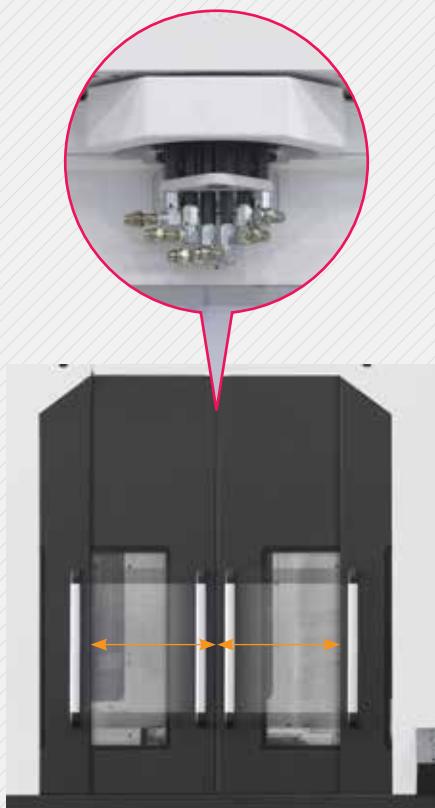
6PPL contains 5 buffer stations and a setup station as standard. Compared to conventional machines that feature APC (2 Pallets), 6PPL runs automatically for longer time. Also, machining various products is possible under a scheduled operation.



Hydraulic Supply Unit (Upper)

An optional hydraulic supply of **16(2×8)Port, 100 bar (1,450 psi)** is available for powerful fixture clamping.

Upper hydraulic structure constantly supplies hydraulic pressure for fluent APC motion. It is free from coolant leakage or chips which makes a pleasant working environment.



Auto Door

Using M-code, the doors can be automatically opened and closed which brings productivity and convenience for automation.

SPECIFICATIONS

Standard & Optional

Spindle		HS6300	HS8000
8,000rpm (22/18.5kW [29.5/24.8HP])	Gear (2 Step)	●	●
8,000rpm (26/22kW [34.9/29.5HP])	Gear (2 Step)	○	○
12,000rpm (30/25kW [40.2/33.5HP])	Built-In	○	○
Spindle Cooling System		●	●
ATC			
ATC Extension	40	●	●
	60	○	○
	90	○	○
	120	○	○
Tool Shank Type	BBT50	●	●
	HSK-A100	○	○
	BCV50	○	○
Tool Weight	25KG (55 lb)	○	○
U-Center	D'andrea	☆	☆
	45°	○	○
	60°	○	○
	90°	●	●
Servo Motor Magazine		●	●
Table, APC & Pallet			
APC	Rotary Turn	●	●
Tap Type Pallet		●	●
T-Slot Pallet		○	○
B Axis Table	1°	●	●
	0.001°	○	○
Coolant System			
Std. Coolant (Nozzle)		●	●
Bed Flushing Coolant		○	○
Through Spindle Coolant*	20 bar (290 psi)	○	○
	30 bar (435 psi), 20 ℓ (5.2 gal)	○	○
	70 bar (1,015 psi), 15 ℓ (3.9 gal)	○	○
	70 bar (1,015 psi), 20 ℓ (5.2 gal)	○	○
	70 bar (1,015 psi), 30 ℓ (7.9 gal)	○	○
		○	○
Jet Coolant		○	○
Gun Coolant		○	○
Side Oil Hole Coolant		☆	☆
Air Gun		○	○
Cutting Air Blow		○	○
Tool Measuring Air Blow (Only for TLM)		○	○
Air Blow for Automation		☆	☆
Thru MQL Device (Without MQL)		☆	☆
Coolant Chiller		☆	☆
Power Coolant System (For Automation)		☆	☆
Chip Disposal			
Coolant Tank		800 ℓ (211.3 gal)	●
Cabin Screw Chip Conveyor		●	●
Chip Conveyor (Hinge/Scraper)	Front (Left)	○	○
	Rear (Right)	○	○
	Left (Front)	○	○
Chip Conveyor (Magnetic)	Front (Left)	○	○
Chip Conveyor (Mesh Drum)	Front (Left)	○	○
Special Chip Conveyor (Drum Filter)		☆	☆
Chip Wagon	Standard (180 ℓ [47.5 gal])	○	○
	Swing (200 ℓ [52.8 gal])	○	○
	Large Swing (290 ℓ [76.6 gal])	○	○
	Large Size (330 ℓ [87.2 gal])	○	○
	Customized	☆	☆
S/W			
Machine guidance (HW-MCG)		☆	☆
Tool Monitoring (HW-TM)		○	○
DFC Software (HW-eDFC)		○	○
Spindle Heat Distortion Compensation (HW-TDC)		○	○
Spindle Warm up Function (HW-WARMUP)		☆	☆
Energy Saving System (HW-ESS)		☆	☆

● : Standard ○ : Option ☆ : Prior Consultation - : Non Applicable

S/W		HS6300	HS8000
Machine Monitoring System (HW-MMS)		○	○
Tool Offset Measurement (HW-TOM)		☆	☆
Machining Condition Selection (HW-MCS)		☆	☆
Adaptive Feed Control (HW-AFC)		☆	☆
Conversational Program (HW-DPRO)		☆	☆
Safety Device			
Total Splash Guard		●	●
Electric Device			
Call Light	1 Color : ■	●	●
	2 Color : ■ ■	○	○
Call Light	3 Color : ■ ■ ■	○	○
	3 Color : ■ ■ ■ B	○	○
Call Light & Buzzer		○	○
Work Light		●	●
Electric Cabinet Light		○	○
Remote MPG		●	●
3 Axis MPG		○	○
Work Counter	Digital	○	○
	Digital	○	○
Tool Counter	Digital	○	○
	Digital	○	○
Multi Tool Counter	6 EA	○	○
	9 EA	○	○
Electric Circuit Breaker		○	○
AVR (Auto Voltage Regulator)		☆	☆
Transformer	50kVA	○	○
	Auto Power Off	○	○
Back up Module for Black out		○	○
Measuring Device			
Air Zero	TACO	○	○
	SMC	○	○
Work Measuring Device		○	○
TLM (Marposh/Renishaw/Blum)	Touch	○	○
	Laser	○	○
Tool Broken Detecting Device		☆	☆
Linear Scale	X/Y/Z Axis	○	○
	B Axis	○	○
Rotary Scale		○	○
Pallet Close Confirmation Device		●	●
Coolant Level Sensor (Only for Chip Conveyor, Bladder Type)		☆	☆
Environment			
Air Conditioner		○	○
Dehumidifier		○	○
Oil Mist Collector		○	○
Oil Skimmer (Only for Chip Conveyor)		○	○
MQL (Minimal Quantity Lubrication)		☆	☆
Fixture & Automation			
Auto Door	Std.	○	○
	High Speed	☆	☆
Auto Shutter (Only for Automatic System)		-	-
Sub O/P		☆	☆
Control of Additional Axis	1Axis	☆	☆
	2Axis	☆	☆
External M Code 4ea		○	○
Automation Interface		☆	☆
I/O Extension (In & Out)	16Contact	○	○
	32Contact	○	○
6PPL		○	○
Hyd. Device			
Std. Hyd. Unit	50bar (725psi) / 60 ℓ (15.8 gal)	●	●
Center Type Hyd. Supply Unit (Upper)	2×2 (6P)	☆	☆
	2×4 (8P)	☆	☆
	2×8 (16P)	○	○
Center Type Hyd. Supply Unit (Lower)	6 Port (Standby Pallet)	○	○
	2×6 (12P)	-	-
Hyd. Unit for Fixture	45bar (653psi)	○	○
	70bar (1,015psi)	○	○
	100bar (1,450 psi)	○	○
	Customized	☆	☆
ETC			
Tool Box		●	●
Customized Color	Need for Munsel No.	☆	☆
CAD&CAM Software		☆	☆

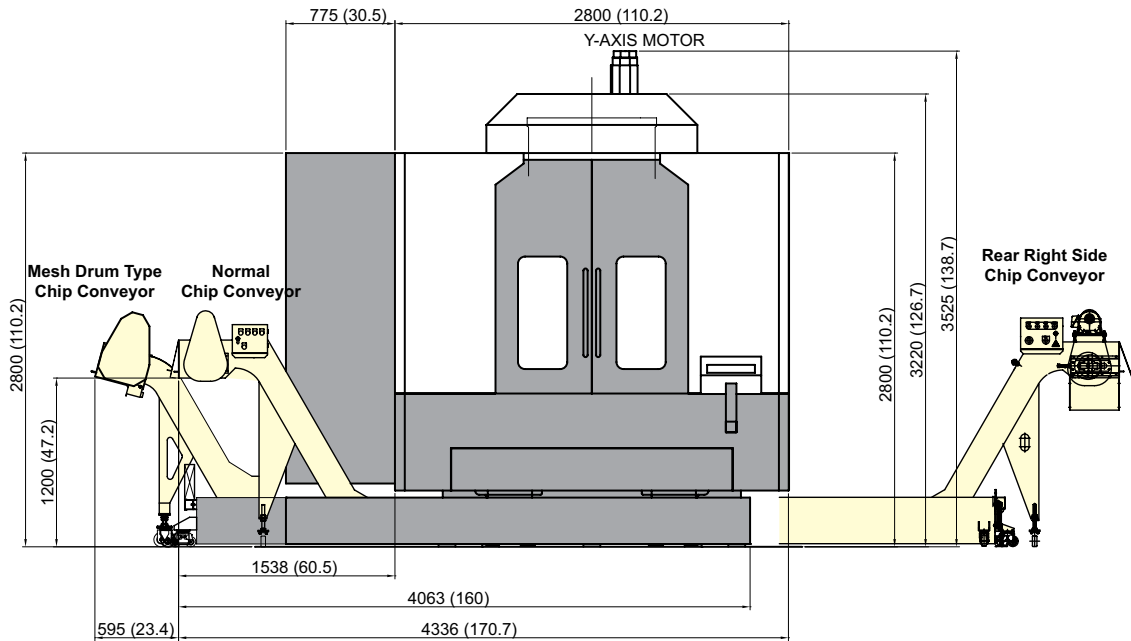
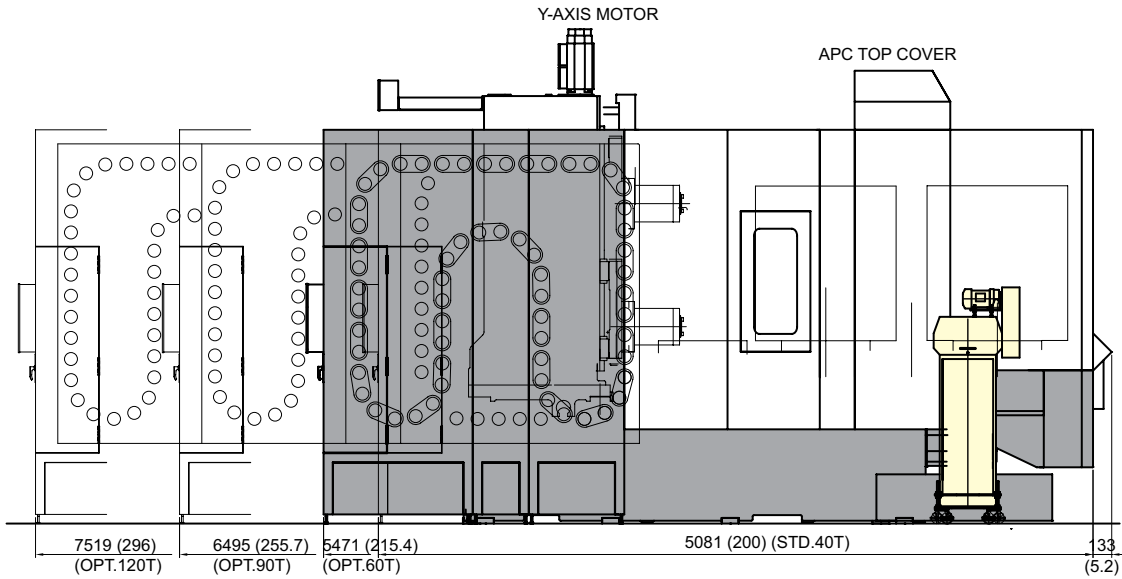
Through Spindle Coolant* : Please check the filter types with sales representative.
Specifications are subject to change without notice for improvement.

SPECIFICATIONS

External Dimensions

unit : mm(in)

HS6300



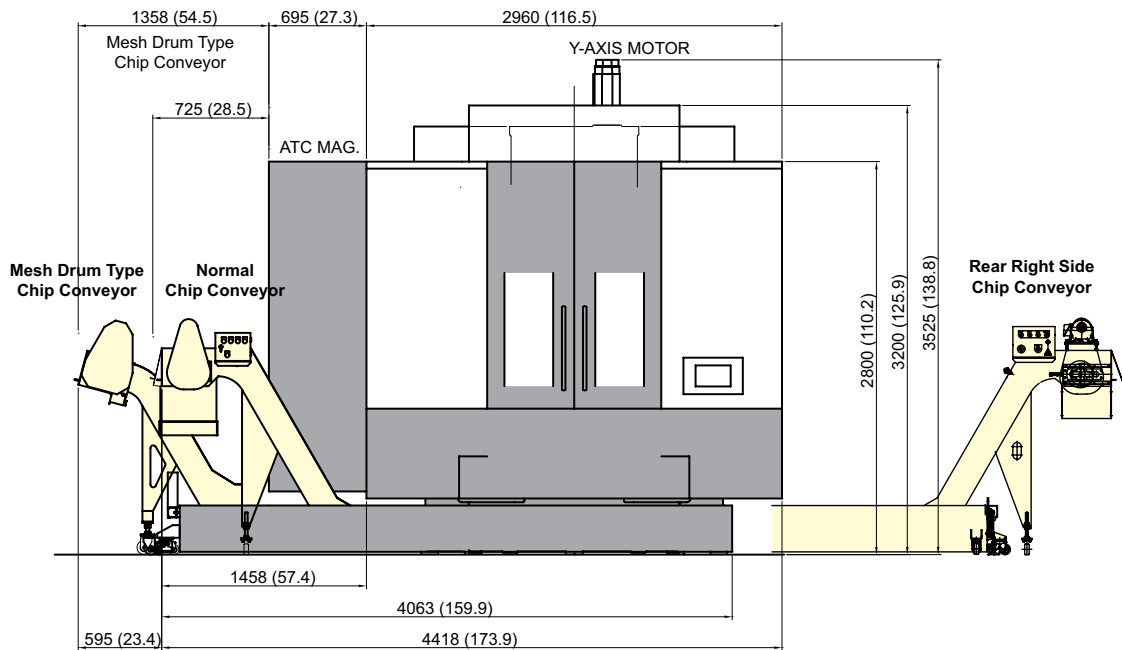
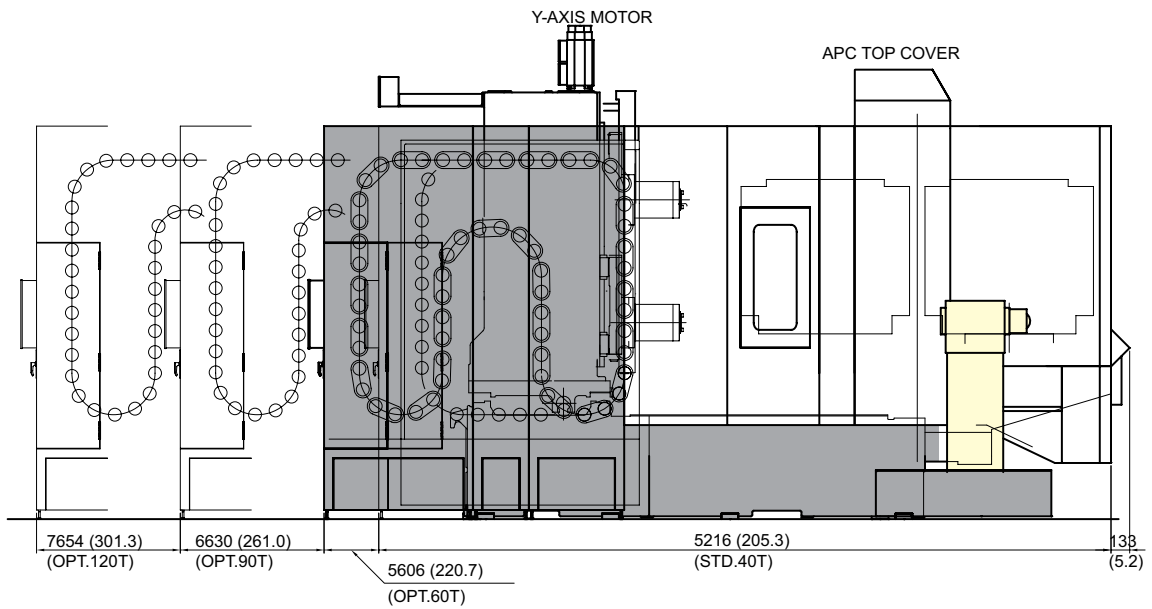
Height when upper hydraulic supply device is attached : 3,845mm (151.4")

SPECIFICATIONS

External Dimensions

unit : mm(in)

HS8000



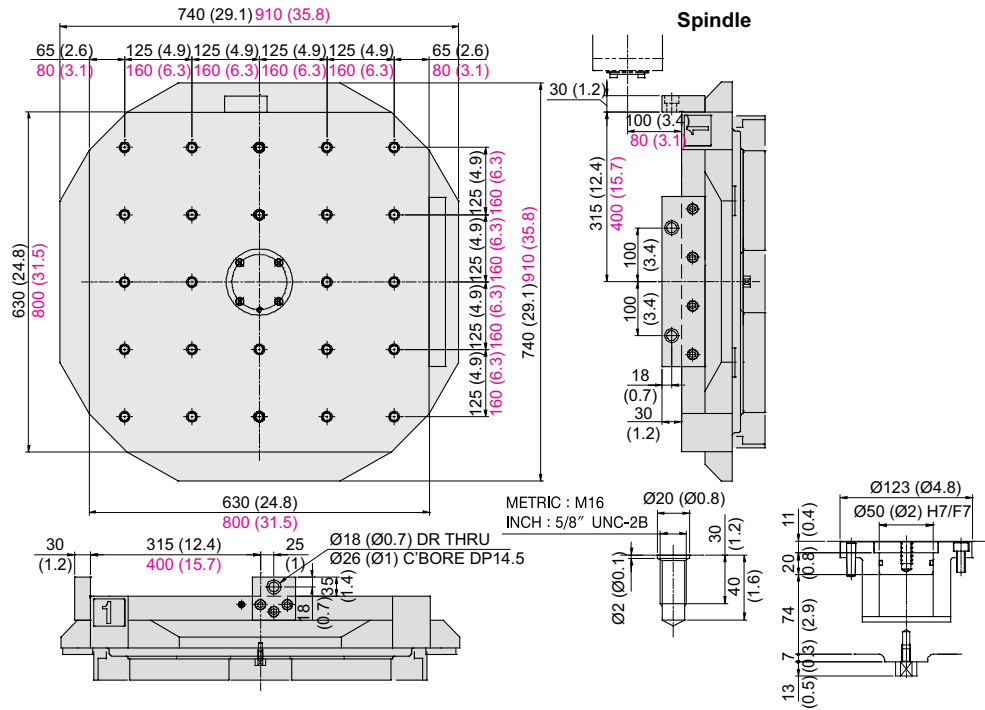
Height when upper hydraulic supply device is attached : 3,845mm (151.4")

SPECIFICATIONS

Table Dimensions

unit : mm(in)

HS6300
HS8000

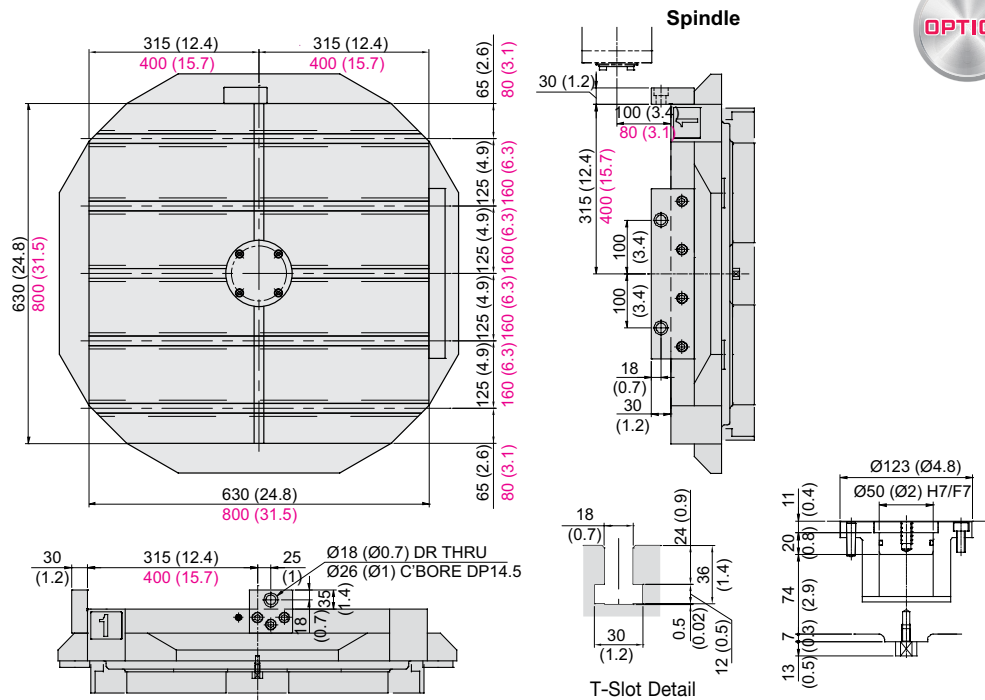


Spindle

Spindle

OPTION

HS6300
HS8000



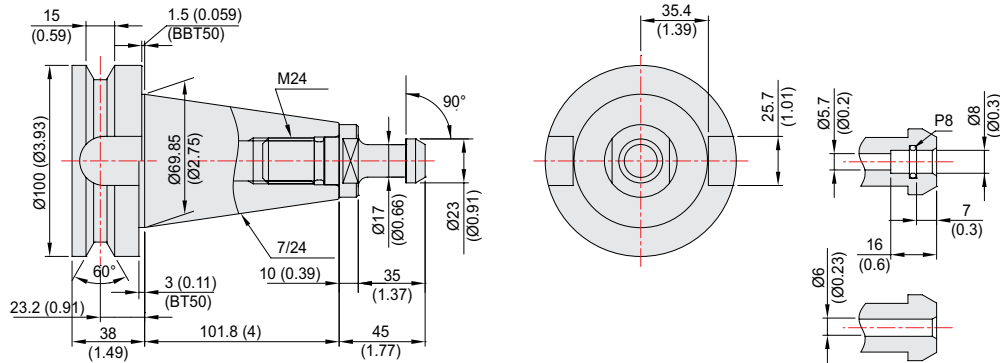
T-Slot Detail

SPECIFICATIONS

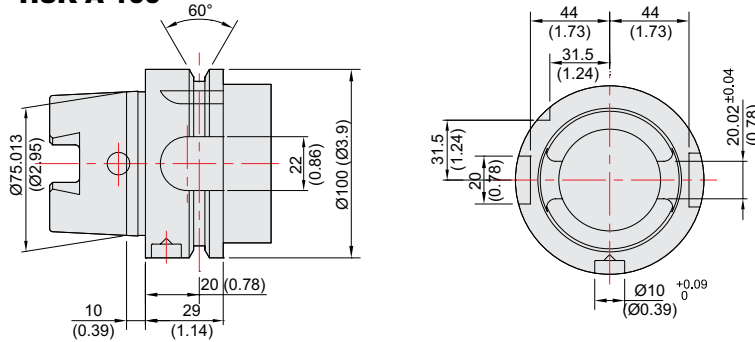
Tool Shank

unit : mm(in)

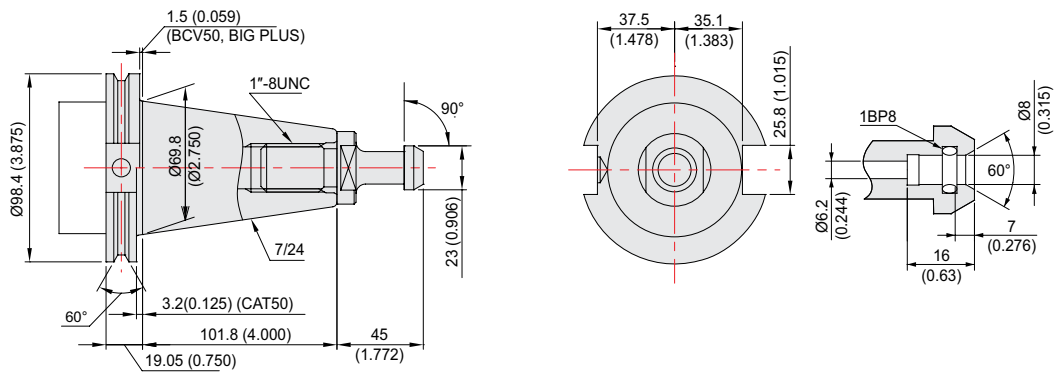
BT50/BBT50, BIG PLUS



HSK A-100



CAT-50/BCV50



SPECIFICATIONS

Specifications

[] : Option

ITEM		HS6300	HS8000		
PALLET	Pallet Size	mm(in)	2-630×630 (24.8"×24.8")	2-800×800 (31.5"×31.5")	
	Maximum Load Capacity	kg(lbf)	2-1,200 (2,645.5)	2-1,600 (3,527.4)	
	Maximum Working Size	mm(in)	*1) Ø930×H1,000 (Ø36.6"×H39.4")	Ø1,200×H1,100 (Ø47.2"×H43.3")	
	Min. Indexing Angle	deg	1° [0.001"]		
SPINDLE	Spindle Taper	-	BIG PLUS#50 [HSK-A100]		
	Spindle RPM	r/min	8,000 [8,000] [12,000]		
	Spindle Motor Output (Max./Cont.)	kW(HP)	22/18.5 (29.5/24.8) [26/22 (34.9/29.5)] [30/25 (40.2/33.5)]		
	Spindle Torque (Max./Cont.)	N·m(lbf.ft)	781/657 (576/484.6) [922/781 (680/576)] [420/238 (309.8/175.5)]		
	Spindle Driving Method	-	GEAR [GEAR] [BUILT-IN]		
FEED	Travel (X/Y/Z axis)	mm(in)	1,050/875/875 (41.3"/34.4"/34.4")		
	Distance from Column to SP. center	mm(in)	100 ~ 975 (3.9" ~ 38.4")	80~955 (3.1" ~ 37.6")	
	Distance from Table Surface to SP	mm(in)	150 ~ 1,025 (5.9" ~ 40.4")		
	Rapid Traverse Rate (X/Y/Z)	m/min(ipm)	50/50/50 (1,968/1,968/1,968)		
	Slide Type	-	ROLLER GUIDE		
ATC	Number of Tools	EA	40 [60, 90, 120]		
	Tool Shank	-	BBT50 [BCV50] [HSK-A100]		
	Max. Tool Dia. (W.T/W.O)	mm(in)	Ø125/Ø245 (Ø4.9"/Ø9.6") [Ø270 (Ø10.6")]	Ø125/Ø245 (Ø4.9"/Ø9.6")	
	Max. Tool Length	mm(in)	500 (19.7") [700 (27.5")]	500 (19.7")	
	Max. Tool Weight	kg(lb)	15 (33.1) [25 (55.1)]		
	Tool Selection Method	-	FIXED ADDRESS		
	Tool Change Time	T-T	sec	3.5	
		C-C	sec	7.5	
APC	No. of Pallet	EA	2		
	APC Type	-	DIRECT TURN		
	Pallet Change Time	sec	16	19	
TANK CAPACITY	Coolant Tank	ℓ (gal)	800 (211.3)		
	Lubricating Tank	ℓ (gal)	2.7 (0.7)		
	Hyd. Tank Unit	ℓ (gal)	60 (15.9)		
POWER SUPPLY	Air Consumption (0.5MPa)	ℓ /min(gal/min)	500 (132.1)		
	Electric Power Supply	KVA	53		
	Thickness of Power Cable	Sq	Over 50		
	Voltage	V/Hz	220/60 (200/50*2)		
MACHINE	Floor Space (L×W)	mm(in)	5,214×4,418 (205.2"×173.9") (40 Tool)	5,349×4,418 (210.6"×173.9") (40 Tool)	
	Height	mm(in)	3,525 (138.8")		
	Weight	kg(lb)	25,000 (55,116)	26,000 (57,320)	
PC	Controller	-	FANUC 31i-A		

*1) When the tool size Ø270×700 (Ø10.6"×27.5") is used, the maximum workpiece size is changed to Ø700 × H1,100 (Ø27.5"×H43.3").

*2) Using 50Hz voltage instead of 60Hz may lower the output of motors. (excluding servo motors and inverter motors)

Specifications are subject to change without notice for improvement.

CONTROLLER

FANUC 31i-A (HS5000 | HS5000/50)

Axis control / Display unit	
Controlled axis	4 axis (X, Y, Z, B)
Simultaneous controllable axis	3 axis (Max. 4 axis)
Least input increment	X, Y, Z axis : 0.001mm (0.0001") B axis : 0.001deg
Least command increment	X, Y, Z axis : 0.001mm (0.0001") B axis : 0.001deg
Inch / Metric conversion	G20 / G21
Interlock	Each axis / All axis
Machine lock	All axis
Emergency stop	
Stored stroke check 1	Over-travel
Follow-up	
Servo off	
Backlash compensation	+/- 0~9999 pulse (rapid traverse & cutting feed)
Position switch	
Stored pitch error compensation	
LCD/MDI	10.4" color LCD
Operation	
Automatic operation (memory)	
MDI operation	
DNC operation	Need DNC Program
Program restart	
Wrong operation prevention	
Buffer register	
Program check function	Dry run, program check
Single block	
Feed functions	
Manual jog feed	Rapid, Jog, handle
Manual handle feed-rate	x1, x10, x100
Feed command	F code feedrate direct command
Feedrate override	0~200% (10% Unit)
Jog feed	0~5,000mm/min (197ipm)
Rapid traverse override	F0,F1,F25%,F50%,F100%
Override cancel	
Rapid traverse bell-shaped acceleration/deceleration	
Program input & Interpolation functions	
AI contour control(AICC)	30 Block
Label Skip	
Control in/out	
Piano Interpolation	Positioning/Linear/Circular (G00/G01/G02/G03)
Exact stop mode/Exact stop	G61 / G09
Dwell	G04, 0~9999.9999 sec
Helical interpolation	
Threading/synchronous feed	G33
Manual reference point return	
Reference point return	G28
Reference point return check	G27
2nd, 3rd, 4th Reference point return	G30
Program stop/end	M00, M01 / M02, M30
Tape code	EIA / ISO Automatic recognition
Optional block skip	1 ea
Max. programmable dimensions	+/- 9999.9999" (+/- 8 digits)
Program number	04 / N8
Absolute/incremental command	G90 / G91
Decimal point input	
Plane selection	G17, G18, G19
Work coordinate preset	G52~G59
Additional work coordinate system	G54.1 P1~P48 (48 pair)
Manual absolute	"On" fixed
Programmable data input	G10
Sub program call	10 Step
Custom macro	
Circular interpolation	G02, G03
Canned cycle	G73, G74, G76, G80 ~ G89
Optional chamfering/corner R	

Program input & Interpolation functions	
Skip function	G31
Automatic coordinate system setting	
Coordinate system rotation	G68, G69
Programmable mirror image	G50.1, G51.1
Sub / Spindle functions	
Miscellaneous function	M4 digit
Miscellaneous function lock	
Spindle speed command	S5 digits, binary output
Spindle speed override	50% ~ 150% (10% Unit)
Spindle orientation	
Rigid tapping	
Tool functions / Tool compensation	
Tool function	Max. T8 digits
Cutter compensation C	G40~G42
Tool length measurement	Z axis INPUT C
Tool length compensation	G43, G44, G49
Tool offset pairs	99 pair
Tool life management	
Data input / Output & Editing functions	
Reader/Puncher interface	RS232C
Memory card input/output	
Embedded Ethernet	100Mbps
Part program storage length	320m (128Kbyte)
Registered programs	250 ea
Memory lock	
Back ground editing	
Extended part program editing	Copy, move, change of NC program
External message	
Setting, display, diagnosis	
Self-diagnosis function	
History display	Alarm & operator message
Help function	
Run hour/Parts count display	
Actual cutting feedrate display	
Graphic display	
Operation monitor screen	
Spindle/Servo setting screen	
Multi-language display	Selection of 5 optional language
LCD Screen Save	Screen saver
Auto Data Backup	
Option	
Sub Axis Control	
Work coordinate Command	G15, G16
Work coordinate Interpolation	G12.1, G13.1
Helical interpolation	G07.1
Single direction positioning	G60
External data input	Tool offset/message/machine zero point shift
FAST ethernet	100 Mbps
Additional work coordinate system	300 pair
Scaling	
FS 15 Tape format	
Tool offset number	200 pair
Part program storage length	Max. 1000 ea
High Speed Skip Function	
Data server	1GB
AI contour control(AICC)	200 Block/Select the machining conditions
AI contour control(AICC) 1	600 Block/Select the machining conditions Data Server/Automatic shut-off device
AI contour control(AICC) 2	1000 Block/Select the machining conditions Data Server/Automatic shut-off device
Manual Guide i	Conversational program
Optional Blockskip	9 ea (Application can be limited)
Handle interrupt	
3 axis MPG	
program storage length	640m (256Kbyte) / 5120m (2Mbyte)
Protection of data at 8 levels	
Additional custom micro change	#100 ~ #199, #500 ~ #999

Figures in inch are converted from metric values.

The FANUC controller specifications are subject to change based on the policy of company CNC supplying.

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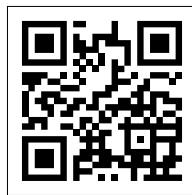
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HS6300 Movie



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