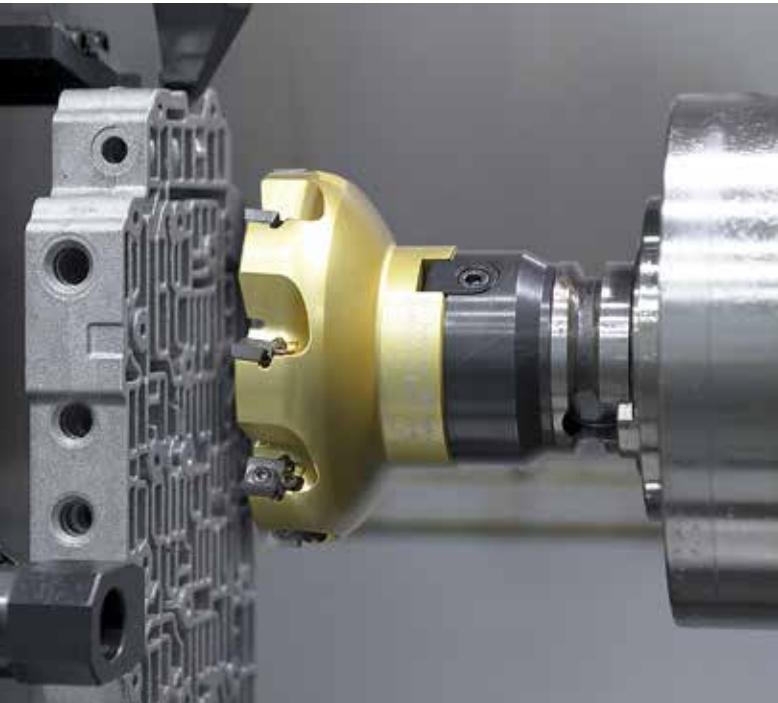
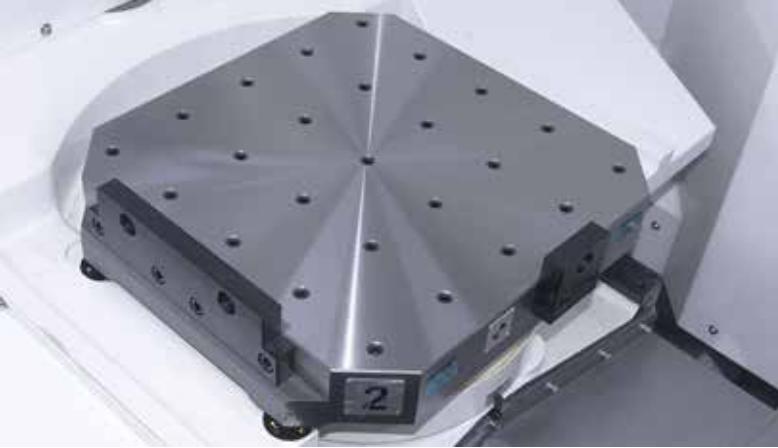


HS6300/8000

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 (2-2,646)
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)
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

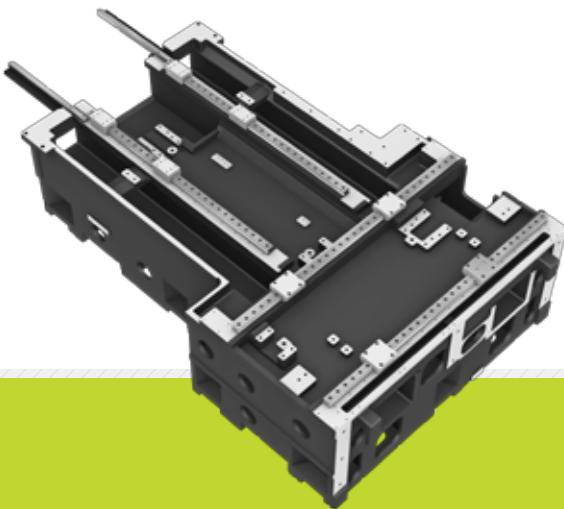
04
+
05

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

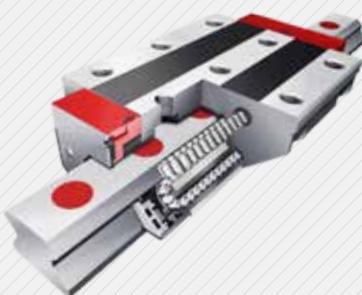
HS6300/8000 is designed with a gear drive, which provides high torque at low rpm and stability at high rpm and this enables a wide range of machining.



03

High Speed Roller Guideway

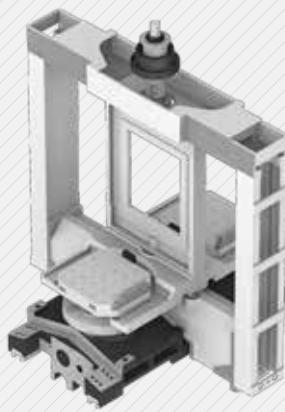
HS6300/8000 applies large linear roller guideways to reduce non-cutting time and bring high rigidity.



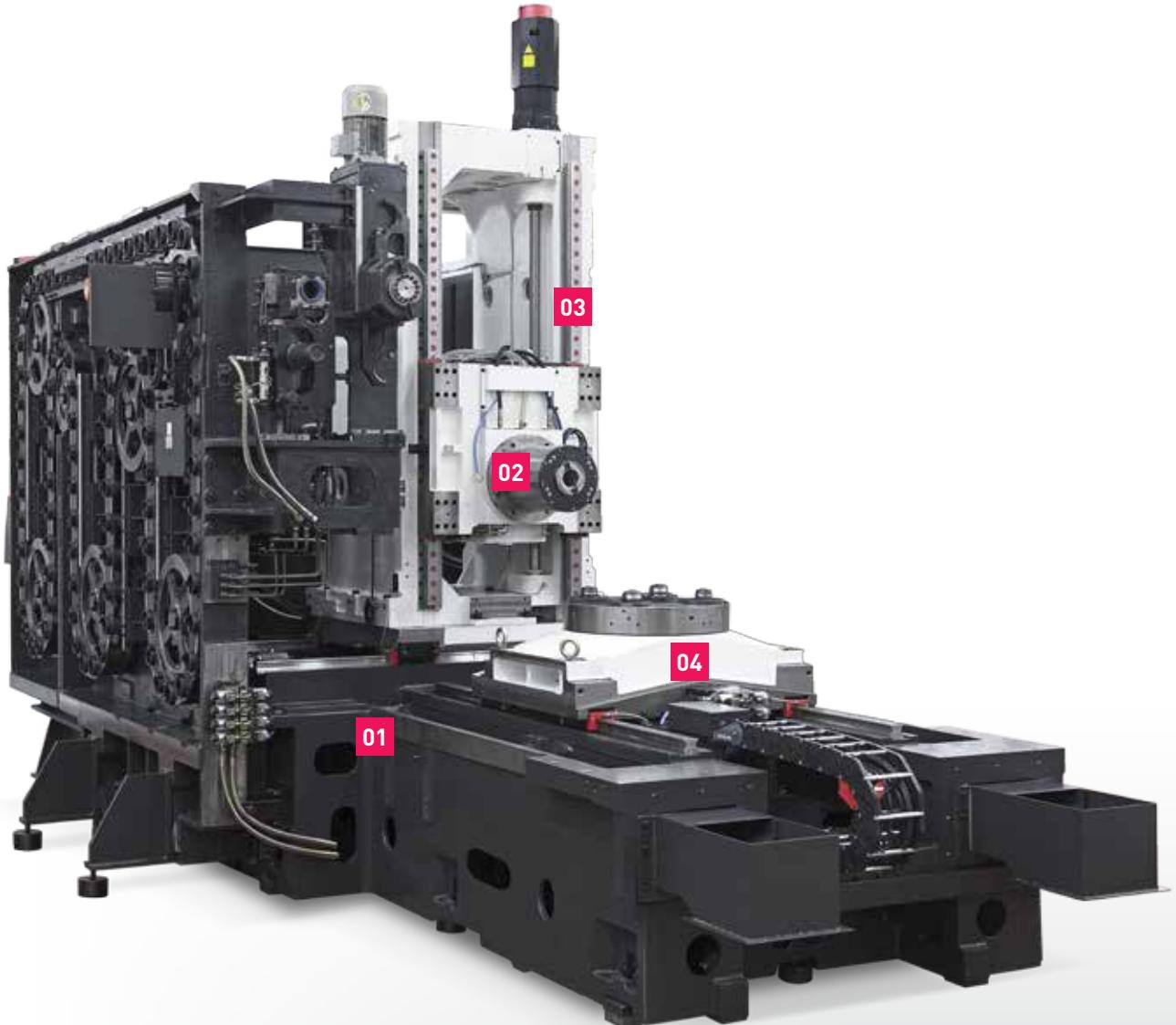
04

Rotary Type APC

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



Basic Features



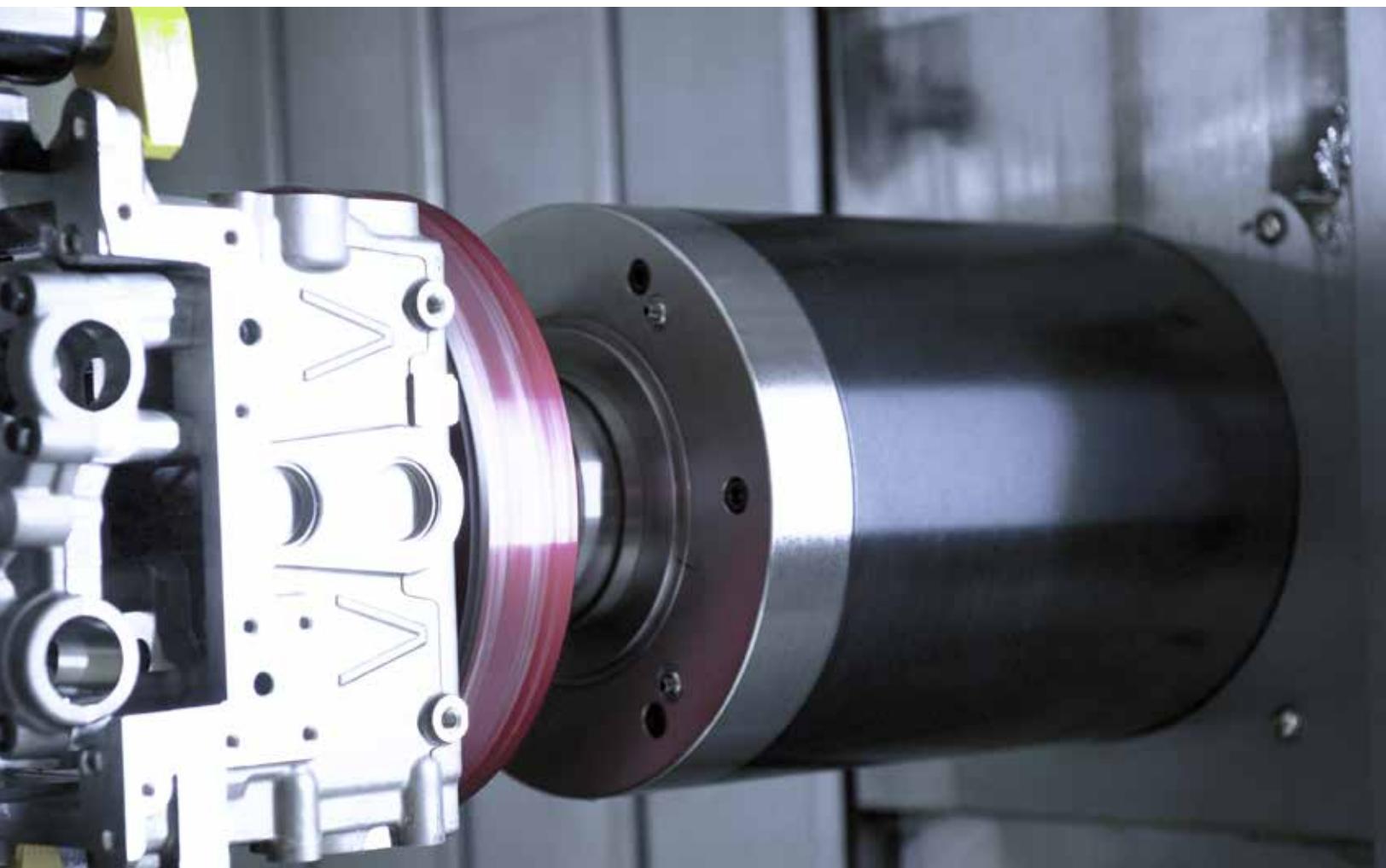
High Precision & High Speed Horizontal Machining Center

- **Rapid Traverse Rate** (X/Y/Z axis) : 50/50/50 m/min (1,969/1,969/1,969 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)

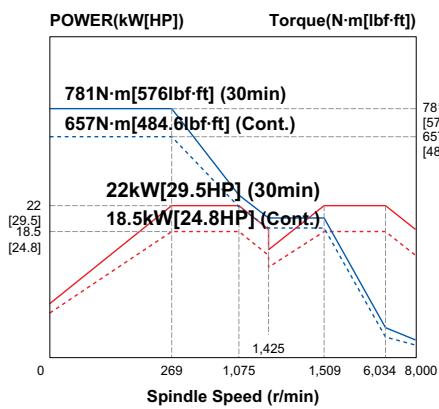
n2
HS6300/8000

High Precision Spindle

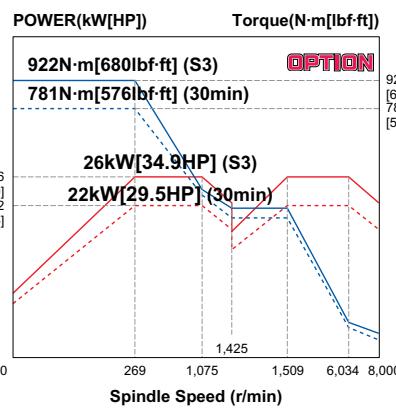
Cutting Edge Design & Optimized Cutting Condition
Horizontal Machining Center



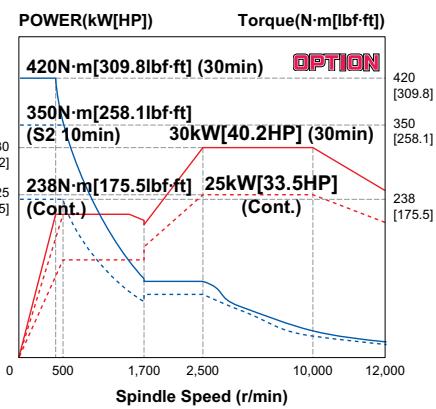
8,000rpm Gear



8,000rpm Gear



12,000rpm Built-in



Spindle

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.

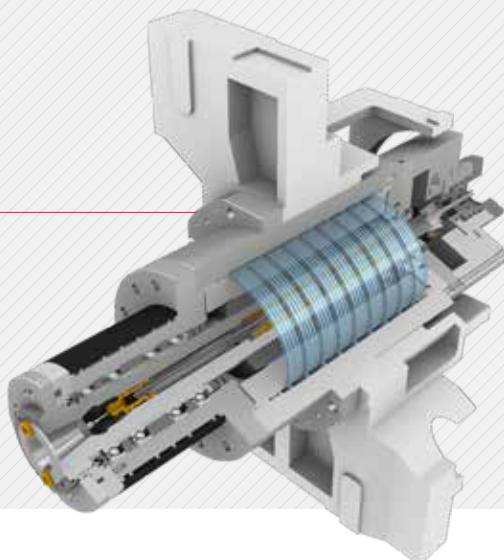
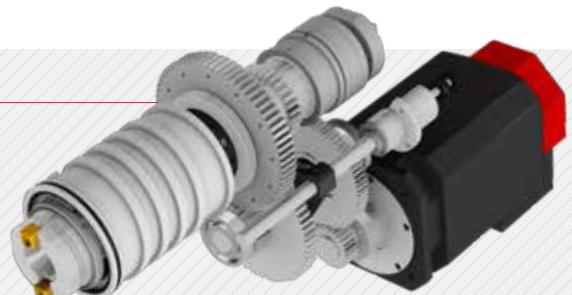
The spindle uses angular ball bearings and is designed to maximize rigidity. Also, powerful tool clamping force improves cutting ability.

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.

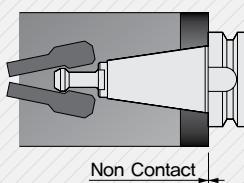


20 bar / 30 bar / 70 bar
(290 psi / 435 psi/ 1,015 psi)

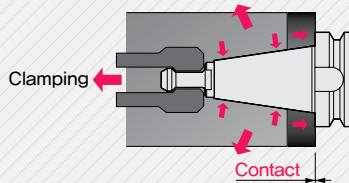
Through Spindle Coolant OPTION

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



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

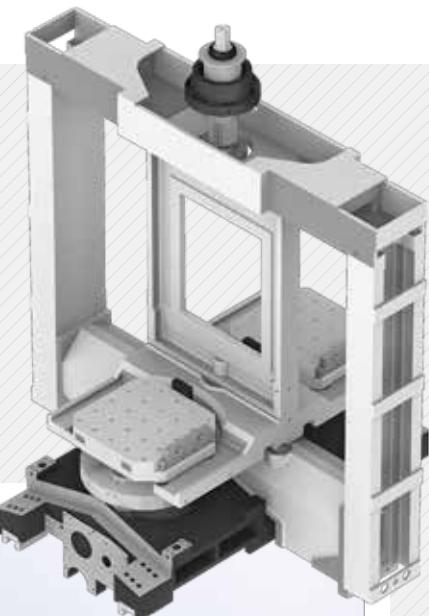
Dual Contact Spindle

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

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.

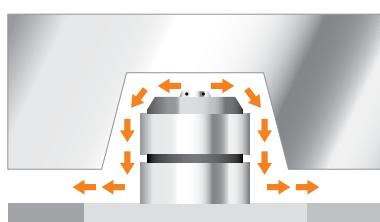
Locating cones at the positioning base are used for pallet clamping. Inside the cones, there are clamping devices for powerful clamping of pallets which is suitable for heavy duty cutting. 1° index table is applied with high precision curvic coupling for accurate indexing.



◎ B Axis Index Angle

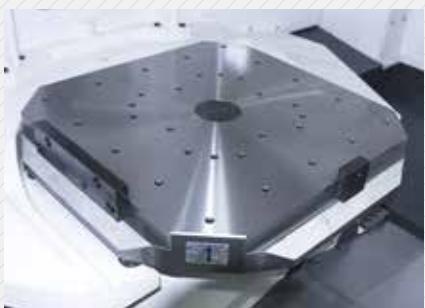
Std. : 1°

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



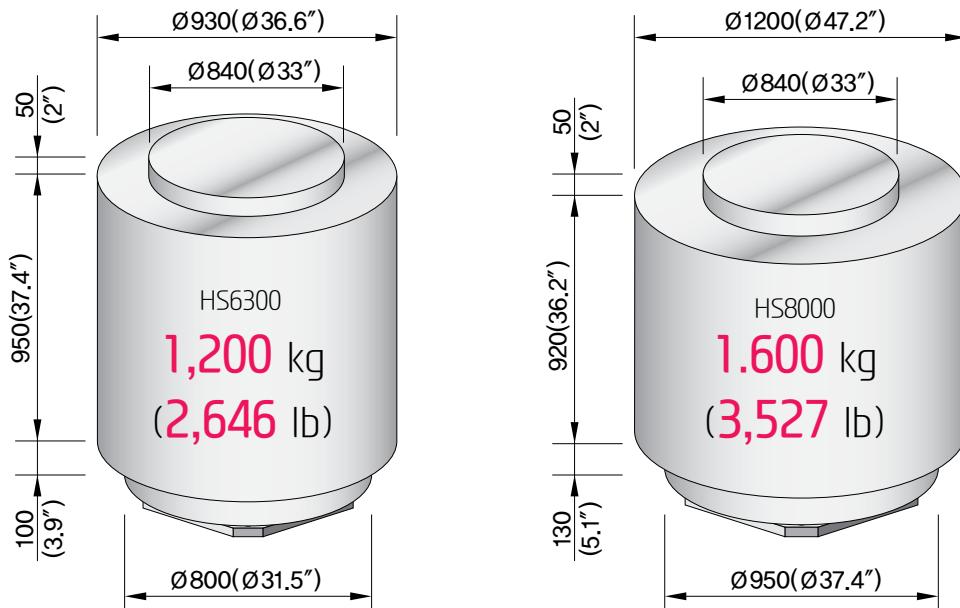
T-Slot Type Pallet **OPTION**

Various Pallet Types

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

Core Unit

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

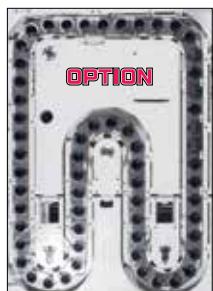
40 Tool : 5,081 mm (200") 60 Tool : 5,471 mm (215.4")

90 Tool : 6,495 mm (255.7") 120 Tool : 7,519 mm (296")

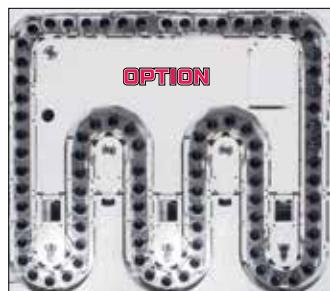
40 Tool



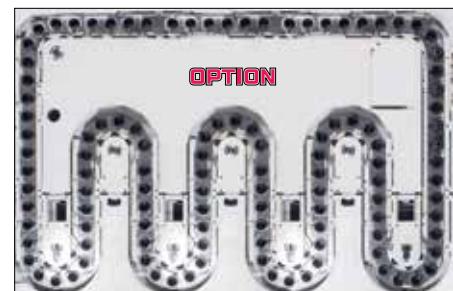
60 Tool



90 Tool



120 Tool



n3

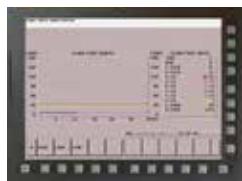
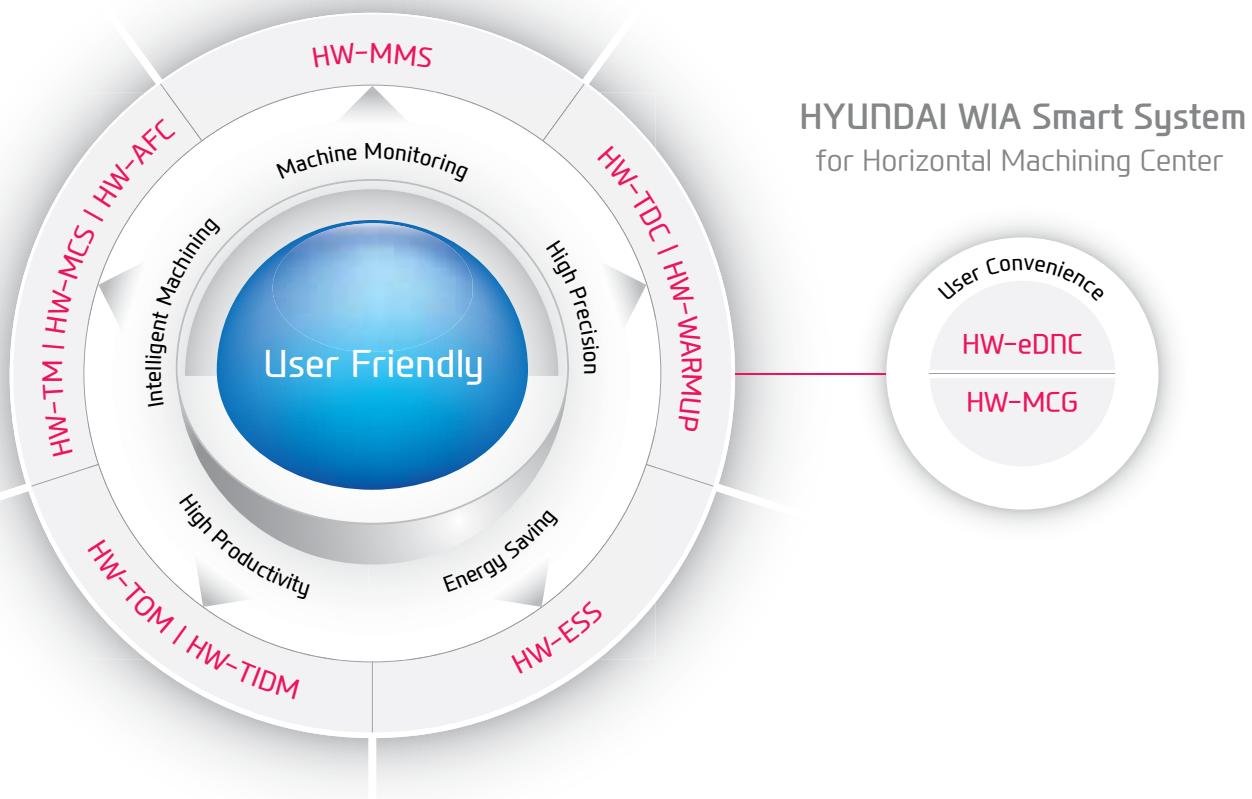
HS6300/8000

Smart System



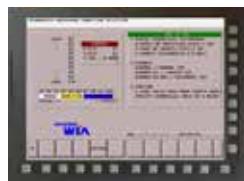
Software for Smart Operating
and Machining

Faster processing and enhanced accuracy 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.



HW-MMS
Remote System

- 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)



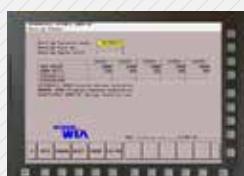
HW-MCG
HYUNDAI WIA
Machine Guidance

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**

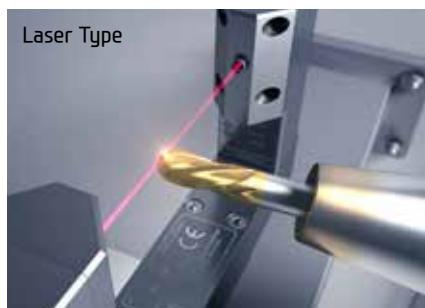
Touch Sensor

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.



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.

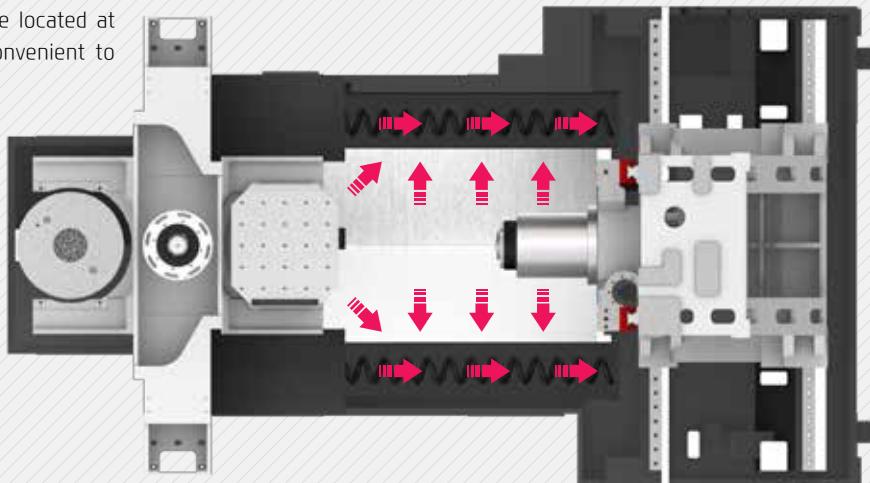


Mist Collector

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.



Chip Conveyor **OPTION**



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

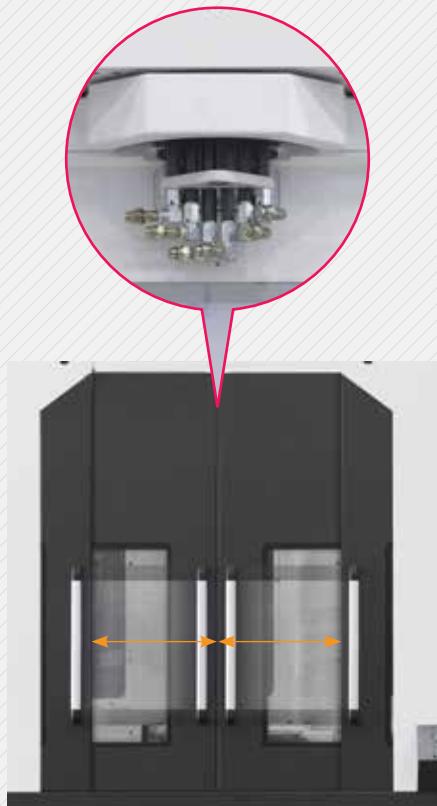
6PPL contains 5 buffer stations and a setup station as standard. Compared to conventional machines that feature APC (2 Pallets), 6PPL runs automatically for longer time. Also, machining various products is possible under a scheduled operation.



Hydraulic Supply Unit (Upper)

An optional hydraulic supply of **16(2x8)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

	HS6300	HS8000
Spindle		
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	☆
Pull Stud	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)	○	○
DNC Software (HW-eDNC)	○	○
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 : ●	●	●
Call Light 2 Color : ○	○	○
Call Light 3 Color : ○	○	○
Call Light & Buzzer 3 Color : ○	○	○
Work Light	●	●
Electric Cabinet Light	○	○
Remote MPG	●	●
3 Axis MPG	○	○
Work Counter Digital	○	○
Total Counter Digital	○	○
Tool Counter Digital	○	○
Multi Tool Counter 6 EA	○	○
Multi Tool Counter 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	○	○
Air Zero SMC	○	○
Work Measuring Device	○	○
TLM Touch (Marposs/Renishaw/Blum)	○	○
Laser	○	○
Tool Broken Detective Device	☆	☆
Linear Scale X/Y/Z Axis	○	○
Rotary Scale B Axis	○	○
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.	○	○
Auto Door High Speed	☆	☆
Auto Shutter (Only for Automatic System)	-	-
Sub O/P	☆	☆
Control of Additional Axis 1Axis	☆	☆
Control of Additional Axis 2Axis	☆	☆
External M Code 4ea	○	○
Automation Interface	☆	☆
I/O Extension (In & Out) 16Contact	○	○
I/O Extension (In & Out) 32Contact	○	○
6PPL	○	○
Hyd. Device		
Std. Hyd. Unit 50bar (725psi) / 60 l (15.8 gal)	●	●
Center Type Hyd. Supply Unit (Upper) 2x2 (6P)	☆	☆
Center Type Hyd. Supply Unit (Upper) 2x4 (8P)	☆	☆
Center Type Hyd. Supply Unit (Upper) 2x8 (16P)	○	○
Center Type Hyd. Supply Unit (Lower) 6Port (Stand by Pallet)	○	○
Center Type Hyd. Supply Unit (Lower) 2x6 (12Port)	-	-
Center Type Hyd. Supply Unit (Lower) 45bar (653psi)	○	○
Center Type Hyd. Supply Unit (Lower) 70bar (1,015psi)	○	○
Center Type Hyd. Supply Unit (Lower) 100bar (1,450 psi)	○	○
Hyd. Unit for Fixture Customized	☆	☆
ETC		
Tool Box	●	●
Customized Color Need for Munsel No.	☆	☆
CAD&CAM Software	☆	☆

Through Spindle Coolant* : Please check the filter types with sales representative.

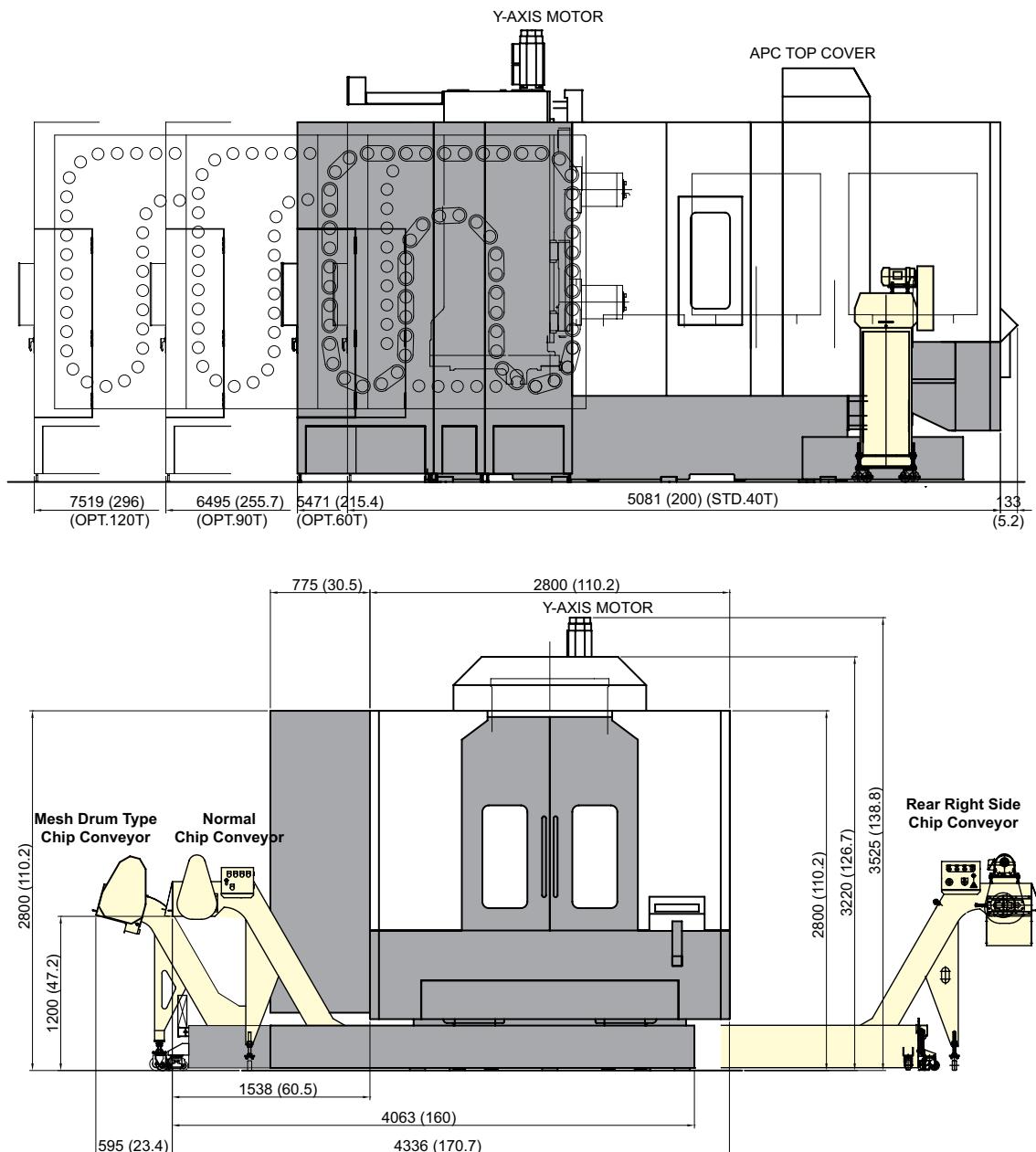
Specifications are subject to change without notice for improvement.

SPECIFICATIONS

External Dimensions

unit : mm(in)

HS6300



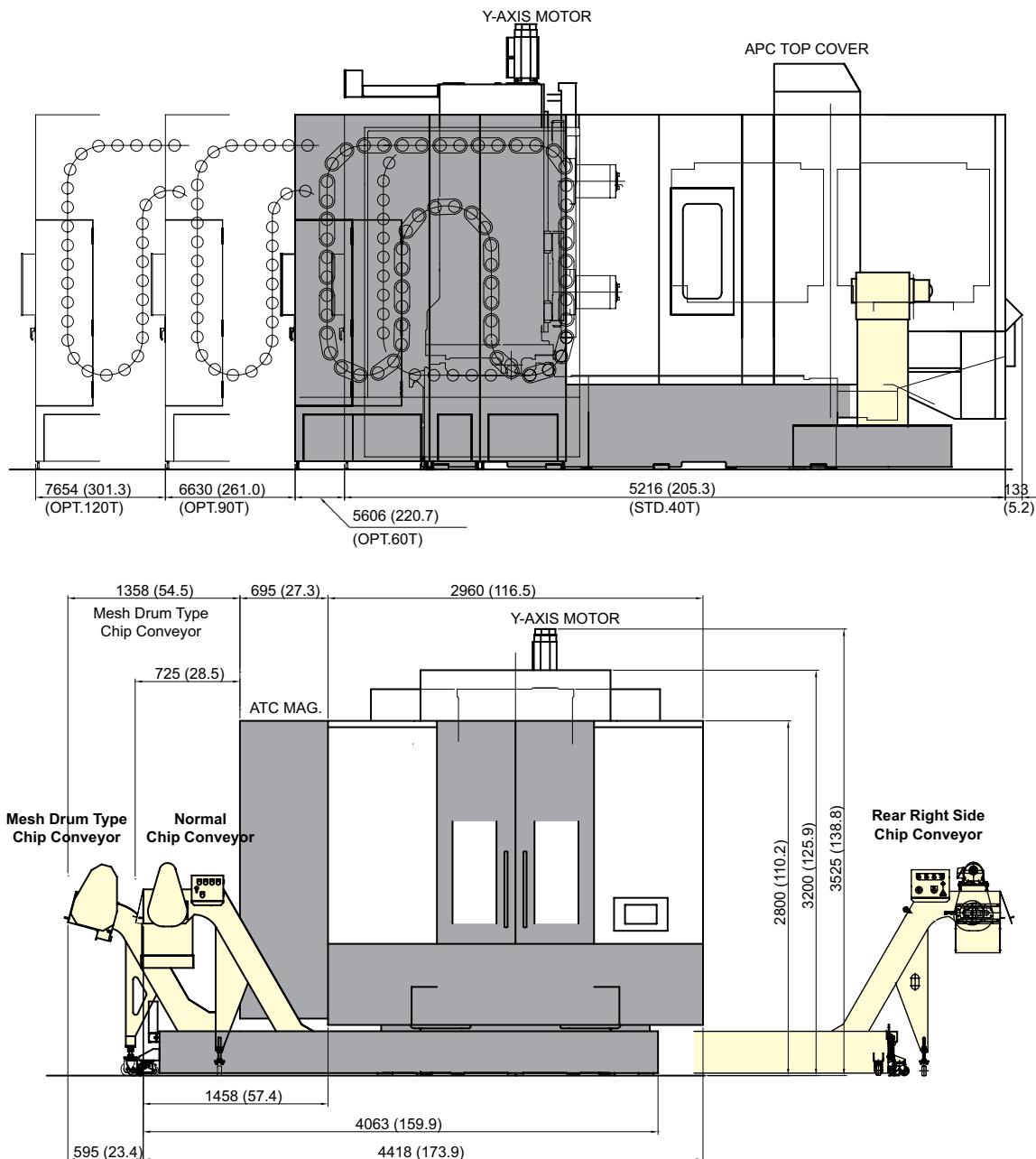
Height when upper hydraulic supply device is attached : 3,845mm (151.4")

SPECIFICATIONS

External Dimensions

unit : mm(in)

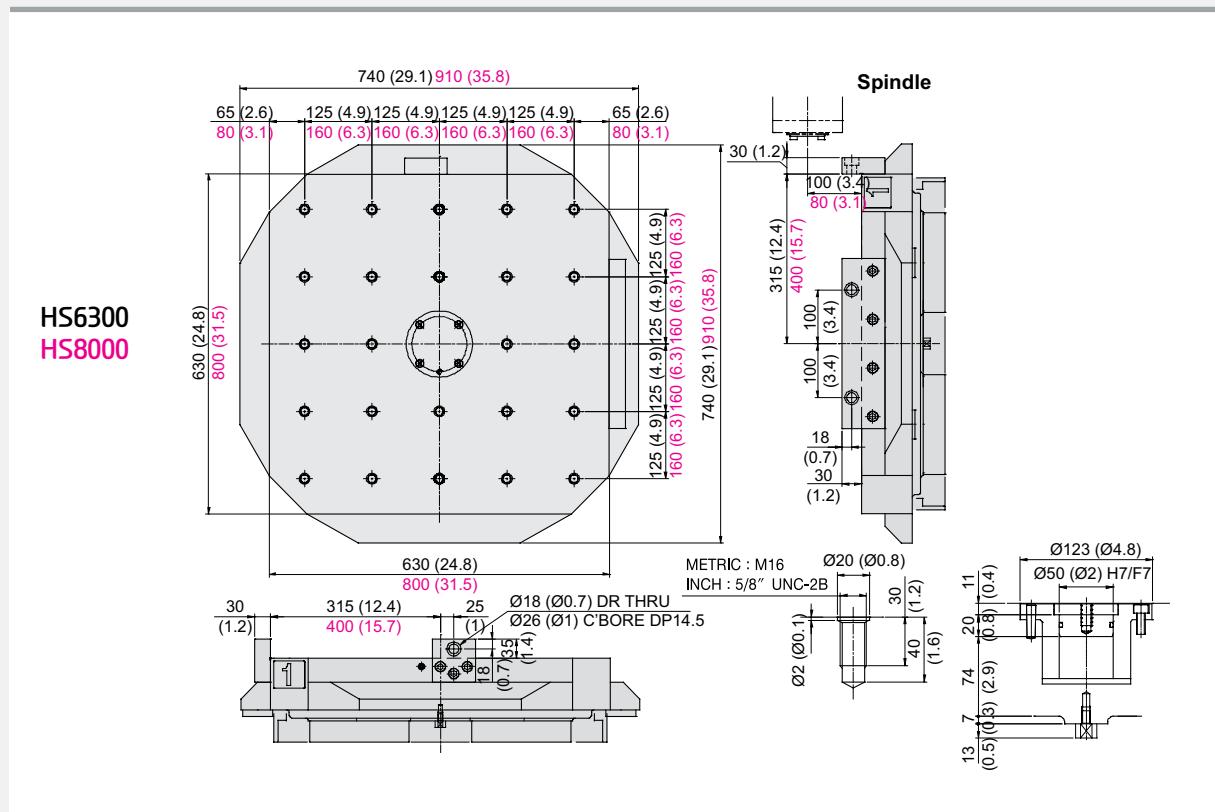
HS8000



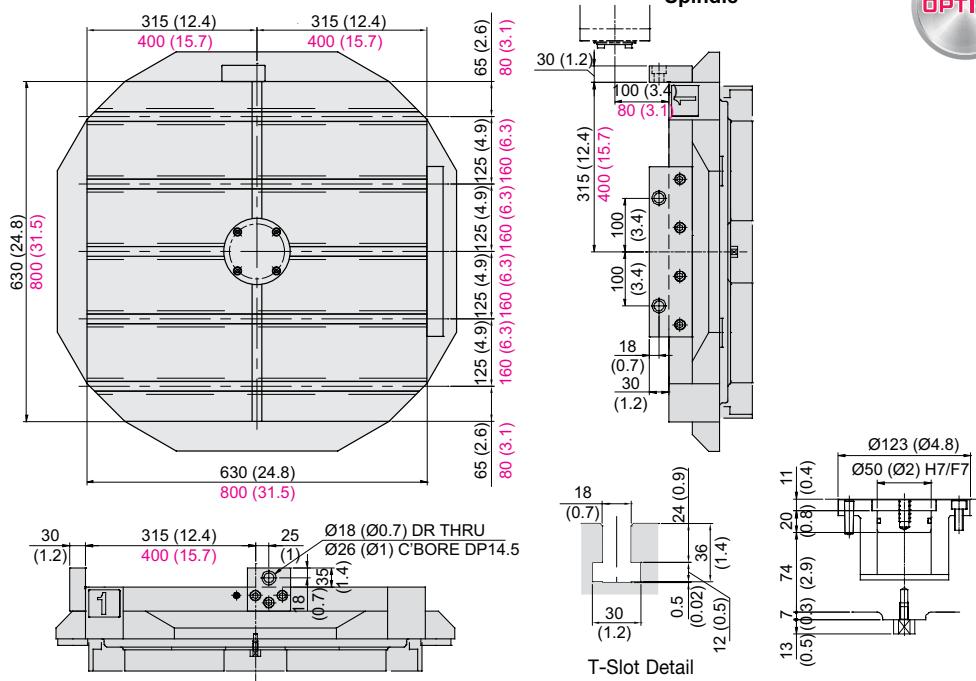
SPECIFICATIONS

Table Dimensions

unit : mm(in)



HS6300
HS8000

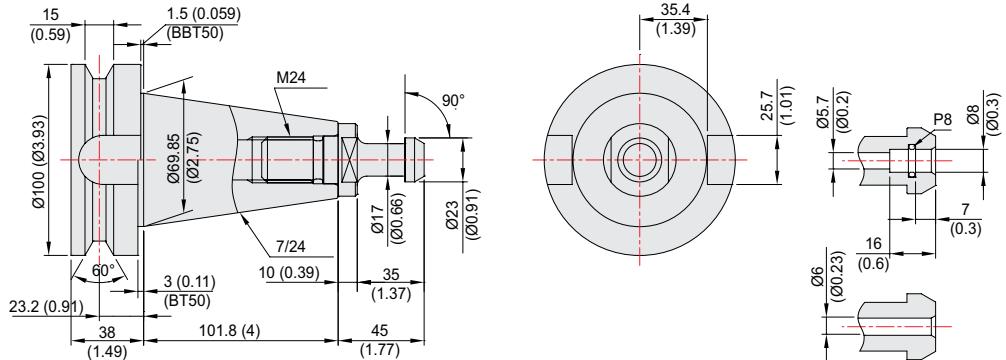


SPECIFICATIONS

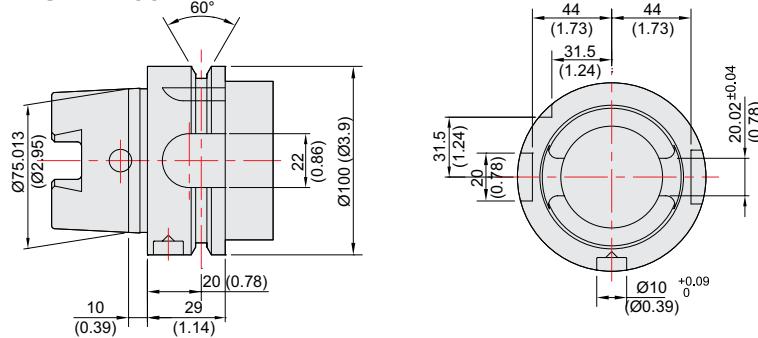
Tool Shank

unit : mm(in)

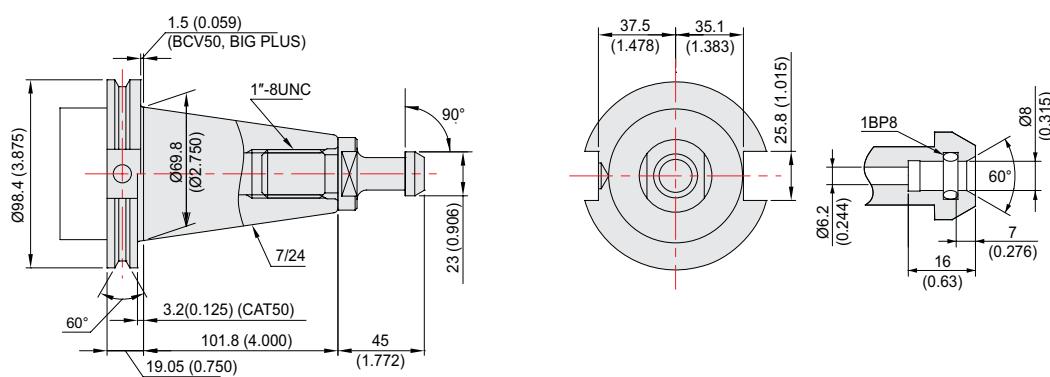
BT50/BBT50, BIG PLUS



HSK A-100



CAT-50/BCV50



SPECIFICATIONS

Specifications

[] : Option

ITEM		HS6300	HS8000	
PALLET	Pallet Size	mm(in)	2-630×630 (24.8"×24.8")	
	Maximum Load Capacity	kgf(lbf)	2-1,200 (2,646)	
	Maximum Working Size	mm(in)	*1) Ø930×H1,000 (Ø36.6"×H39.4")	
	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)]	
FEED	Spindle Driving Method	-	GEAR [GEAR] [BUILT-IN]	
	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")	
	Distance from Table Surface to SP	mm(in)	150 ~ 1,025 (5.9" ~ 40.4")	
ATC	Rapid Traverse Rate (X/Y/Z)	m/min(ipm)	50/50/50 (1,969/1,969/1,969)	
	Slide Type	-	ROLLER GUIDE	
	Number of Tools	EA	40 [60, 90, 120]	
	Tool Shank	-	BBT50 [BCV50] [HSK-A100]	
APC	Max. Tool Dia. (W.T/W.O)	mm(in)	Ø125/Ø245 (Ø4.9"/Ø9.6") [Ø270 (Ø10.6")]	
	Max. Tool Length	mm(in)	500 (19.7") [700 (27.5")]	
	Max. Tool Weight	kg(lb)	15 (33.1) [25 (55.1)]	
	Tool Selection Method	-	FIXED ADDRESS	
TANK CAPACITY	Tool Change Time	T-T	sec	3.5
		C-C	sec	7.5
POWER SUPPLY	No. of Pallet	EA	2	
	APC Type	-	DIRECT TURN	
	Pallet Change Time	sec	16	19
MACHINE	Coolant Tank	l (gal)	800 (211.3)	
	Lubricating Tank	l (gal)	2.7 (0.7)	
	Hyd. Tank Unit	l (gal)	60 (15.9)	
NC	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*)	
MACHINE	Floor Space (L×W)	mm(in)	5,214×4,418 (205.2"×173.9") (40 Tool)	
	Height	mm(in)	3,525 (138.8")	
	Weight	kg(lb)	25,000 (55,116)	
NC	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		Program input & Interpolation functions	
Controlled axis	4 axis (X, Y, Z, B)	Skip function	G31
Simultaneous controllable axis	3 axis (Max. 4 axis)	Automatic coordinate system setting	
Least input increment	X, Y, Z axis : 0.001mm (0.0001") B axis : 0.001deg	Coordinate system rotation	G68, G69
Least command increment	X, Y, Z axis : 0.001mm (0.0001") B axis : 0.001deg	Programmable mirror image	G50.1, G51.1
Inch / Metric conversion	G20 / G21	Sub / Spindle functions	
Interlock	Each axis / All axis	Miscellaneous function	M4 digit
Machine lock	All axis	Miscellaneous function lock	
Emergency stop		Spindle speed command	55 digits, binary output
Stored stroke check 1	Over-travel	Spindle speed override	50% ~ 150% (10% Unit)
Follow-up		Spindle orientation	
Servo off		Rigid tapping	
Backlash compensation	+/- 0~9999 pulse (rapid traverse & cutting feed)	Tool functions / Tool compensation	
Position switch		Tool function	Max. T8 digits
Stored pitch error compensation		Cutter compensation C	G40~G42
LCD/MDI	10.4" color LCD	Tool length measurement	Z axis INPUT C
Operation		Tool length compensation	G43, G44, G49
Automatic operation (memory)		Tool offset pairs	99 pair
MDI operation		Tool life management	
DNC operation	Need DNC Program	Data input / Output & Editing functions	
Program restart		Reader/Puncher interface	RS232C
Wrong operation prevention		Memory card input/output	
Buffer register		Embedded Ethernet	100Mbps
Program check function	Dry run, program check	Part program storage length	320m (128Kbyte)
Single block		Registered programs	250 ea
Feed functions		Memory lock	
Manual jog feed	Rapid, Jog, handle	Back ground editing	
Manual handle feed-rate	x1, x10, x100	Extended part program editing	Copy, move, change of NC program
Feed command	F code feedrate direct command	External message	
Feedrate override	0~200% (10% Unit)	Setting, display, diagnosis	
Jog feed	0~5,000mm/min (197ipm)	Self-diagnosis function	
Rapid traverse override	F0,F1,F25%,F50%,F100%	History display	Alarm & operator message
Override cancel		Help function	
Rapid traverse bell-shaped acceleration/deceleration		Run hour/Parts count display	
Program input & Interpolation functions		Actual cutting feedrate display	
AI contour control(AICC)	30 Block	Graphic display	
Label Skip		Operation monitor screen	
Control in/out		Spindle/Servo setting screen	
Nano Interpolation	Positioning/Linear/Circular (G00/G01/G02/G03)	Multi-language display	Selection of 5 optional language
Exact stop mode/Exact stop	G61 / G09	LCD Screen Save	Screen saver
Dwell	G04, 0~9999.9999 sec	Auto Data Backup	
Option			
Helical interpolation		Sub Axis Control	
Threading/synchronous feed	G33	Work coordinate Command	G15, G16
Manual reference point return		Work coordinate Interpolation	G12.1, G13.1
Reference point return	G28	Helical interpolation	G07.1
Reference point return check	G27	Single direction positioning	G60
2nd, 3rd, 4th Reference point return	G30	External data input	Tool offset/message/machine zero point shift
Program stop/end	M00, M01 / M02, M30	FAST ethernet	100 Mbps
Tape code	EIA / ISO Automatic recognition	Additional work coordinate system	300 pair
Optional block skip	1 ea	Scaling	
Max. programmable dimensions	+/- 9999.9999" (+/- 8 digits)	FS 15 Tape format	
Program number	04 / #8	Tool offset number	200 pair
Absolute/incremental command	G90 / G91	Part program storage length	Max. 1000 ea
Decimal point input		High Speed Skip Function	
Plane selection	G17, G18, G19	Data server	1GB
Work coordinate preset	G52~G59	AI contour control(AICC)	200 Block>Select the machining conditions
Additional work coordinate system	G54.1 P1~P48 (48 pair)	AI contour control(AICC) 1	600 Block>Select the machining conditions
Manual absolute	"On" fixed	AI contour control(AICC) 2	1000 Block>Select the machining conditions
Programmable data input	G10	Manual Guide i	Data Server/Automatic shut-off device
Sub program call	10 Step	Optional Blockskip	9 ea (Application can be limited)
Custom macro		Handle interrupt	
Circular interpolation	G02, G03	3 axis MPG	
Canned cycle	G73, G74, G76, G80 ~ G89	program storage length	640m (256Kbyte) / 5120m (2Mbyte)
Optional chamfering/corner R		Protection of data at 8 levels	
		Additional custom macro 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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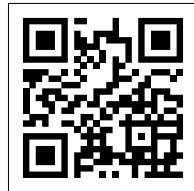
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HS6300 Movie



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