

KH

80G

Robust Machining Center with Revolutionary Productivity

HYUNDAI WIA Heavy Duty Horizontal Machining Center

Technical Leader

Resulting from years of experience, Hyundai WIA's KH80G features a 3 step geared spindle and rigid construction in order to deliver accurate machining and maximum productivity.

		KH80G
Pallet Size (L×W)	mm(in)	2-800×800 (2-31.5"×31.5")
Max. Load Capacity	kg(lb)	2-2,200 2-
Spindle Taper	-	BT50 [BBT50] [HSK-A100]
Spindle Speed	r/min	4,500 [6,000] [4,500] [6,000]
Spindle Output	kW(HP)	26/22 (35/30) [26/22 (35/30)] [26/22 (35/30)] [26/22 (35/30)]
No. of Tools	EA	40 [80, 120]
Travel (X/Y/Z)	mm(in)	1,250/1,000/850 (49.2"/39.4"/33.5")
Rapid Traverse Rate (X/Y/Z)	m/min(ipm)	18/18/18 (709/709/709)

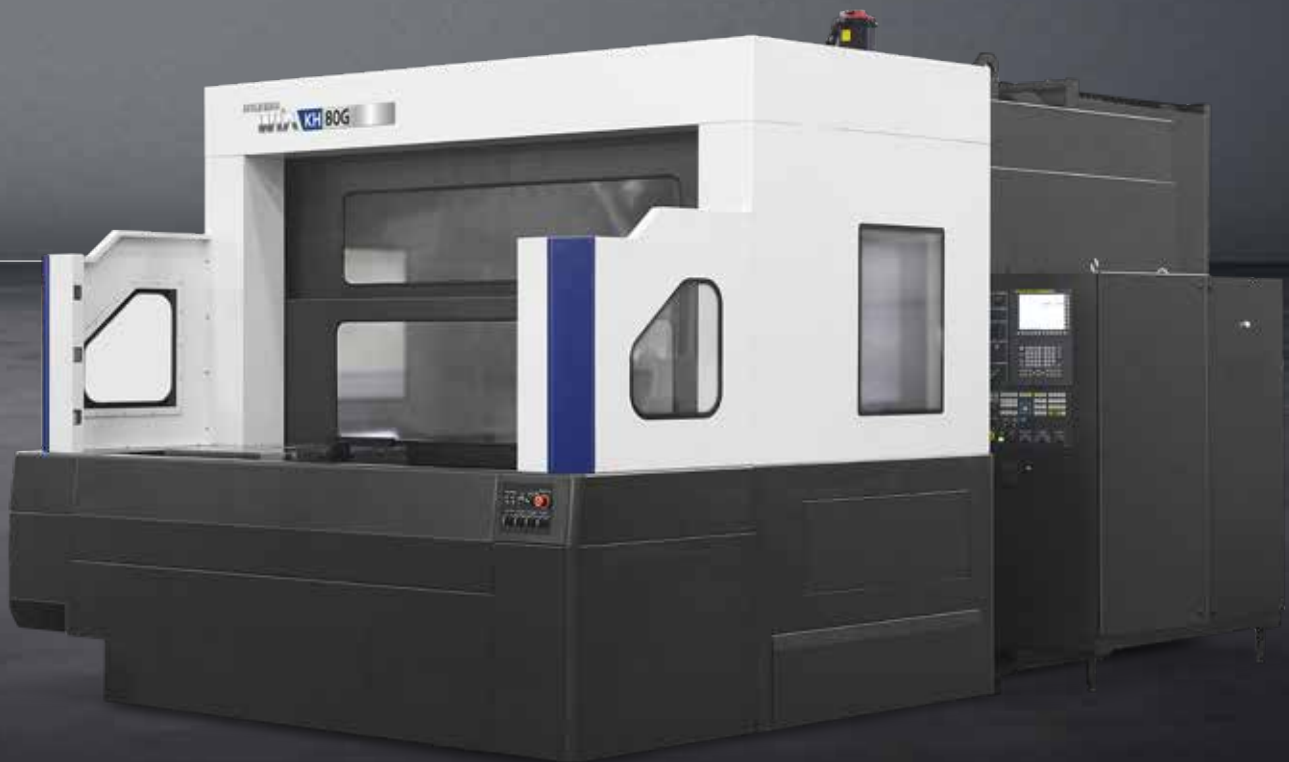
[] : Option • SIEMENS

KH

80G

Heavy Duty Cutting Horizontal Machining Center

- Best in Class Max. Work Size of $\varnothing 1,150(\varnothing 45.3")$ & $1,150\text{mm}(\varnothing 45.3")$ Height
- Dual Contact Spindle for High Rigidity (Option)
- 3 Step Gear Main Spindles for Powerful Cutting
- Through Spindle Coolant for High Accuracy
- Shuttle Type APC
- Optimized Guideways on Each Axis
- Specially Designed Columns that Minimize Thermal Displacement



01 BASIC STRUCTURE

Heavy Duty Cutting & Productivity Horizontal Machining Center

High Precision Spindle

- 3 Step Gear Type Spindle
4,5000 r/min [6,000 r/min]
- Oil Cooling System
- BT50 [BBT50] [HSK-A100]

ATC & Magazine

- No. of Tools : 40 [80/120] EA
- Tool Selection Method : Fixed



Pallet

- Pallet Size (L×W) : 800×800 mm (31.5"×31.5")
- APC Type : Shuttle



HIGH RIGIDITY, HIGH PERFORMANCE

HIGH RIGIDITY STRUCTURE

Column Moving Structure

The column moving Z-axis enables precise machining of large-sized work and prevents overhang of table when loading or machining.

The column width of 860mm(33.9") provides precise machining at any condition. Also, the thermally symmetrical column structure minimizes thermal displacement.



"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.

Floor Space (L×W)

5,510×3,270 (40 Tool) mm (216.9"×128.7")

GUIDE WAY

Hybrid Type Slideways

KH80G applies 2 types of guideways. Sturdy box guideways on Y-axis for heavy loads, and LM Guideways on X/Z axis for better movement, providing ultimate travel ability.

Oil & Air Lubrication

Guideways are lubricated with both oil and air. When compared to conventional oil-only lubrication systems, cooling speed is improved.



Travel (X/Y/Z)

1,250/1,000/850 mm (49.2"/39.4"/33.5")

Rapid Traverse Rate (X/Y/Z)

18/18/18 mm (709/709/709)

02 HIGH PRECISION SPINDLE

Excellent machining performance with high-precision spindle

Spindle Specifications

[] : Option

Model	Speed (rpm)	Motor (Max./Cont.)	Torque (Max./Cont.)	Driving Method
FANUC	4,500 r/min	26/22 kW (35/30 HP)	1,500/1,275 N·m (1,106.3/940.4 lbf·ft)	3 Step Gear
	[6,000 r/min]	[26/22 kW (35/30 HP)]	[1,500/1,275 N·m (1,106.3/940.4 lbf·ft)]	
SIEMENS	[4,500 r/min]	[26/22 kW (35/30 HP)]	[1,908.4/1,139.2 N·m (1,407.6/1,139.2 lbf·ft)]	
	[6,000 r/min]	[26/22 kW (35/30 HP)]	[1,908.4/1,139.2 N·m (1,407.6/1,139.2 lbf·ft)]	

HIGH-PERFORMANCE, HIGH-PRECISION SPINDLE

SPINDLE

High Rigidity Spindle

Main spindle diameter of 100mm(3.9") helps maintain reliability during heavy duty cutting, while the 3-point contact roller bearing as well as angular contact bearing provide high rigidity. Spindle oil cooling device is applied to minimize thermal displacement. this helps maintain precision during long hours of operation.

3 Step Geared Spindle

the KH80G is designed with a 3-step gear drive, which provides high torque at low rpm and stability at high rpm.



Spindle Cooling

Spindle temperature can be controlled by the use of a spindle oil chiller. this ensures constant oil temperature and minimizes thermal displacement.

Machining Capability

FACE MILL (Material : SM45C)	
Tool Diameter	Ø153 mm (Ø6.02")
Spindle Speed (rpm)	300 r/min
Feed Rate	770 mm/min (30.3 ipm)
Cutting Width	150 mm
Cutting Depth	6 mm
Chip Quantity	700 cc/min

DRILL (소재 : S45C)	
Tool Diameter	Ø60 mm (Ø2.36")
Spindle Speed (rpm)	133 r/min
Feed Rate	50 mm/min (1.96 ipm)
Chip Quantity	180 cc/min

TAP (소재 : S45C)	
Tool Diameter	M52×P5.0
Spindle Speed (rpm)	43 r/min
Feed Rate	215 mm/min (9.46 ipm)

❖ The above result might be different by types of processing circumstances.

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.



20 bar / 30 bar / 70 bar

03 APC & ATC

High Productivity Achieved with High Rigidity, Accuracy Machining

ATC & Magazine Specifications

[] : Option

Model	No. of Tools	Max. Tool Dia. (W.T/W.O)	Max. Tool Length	Max. Tool Weight
KH80G	40 [80, 120] EA	Ø130/Ø260 mm (Ø4.3"/Ø9.6")	500 mm (19.7")	27 kg (59.5 lb)

APC & Pallet Specifications

Model	Pallet Size (L×W)	Max. Load Capacity	Min. Indexing Angle	APC Type
KH80G	800×800 mm (31.5"×31.5")	2,200 kg (4,850 lb)	1° [0.001°]	SHUTTLE

HIGH RIGIDITY, TOOL & PALLET CHANGE SYSTEM

APC & PALLET

Shuttle Type APC

the KH80G is equipped with a shuttle type APC (Automatic Pallet Changer) as standard. The pallet can be rotated in the loading station for quick and easy load/unload of machined parts.

Pallet

Powerful clamping by clamping plate is suitable for heavy duty cutting. Precise indexing is possible with 1° index table which applies high precision couplings.

B Axis Index Angle Std. : 1° [Opt. : 0.001°]



ATC & MAGAZINE

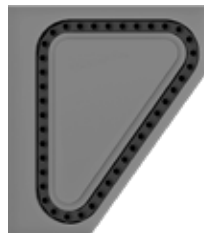
KH80G offers various tool magazines which expand the range of machining. Also, fixed address tool selection method increases convenience.

ATC

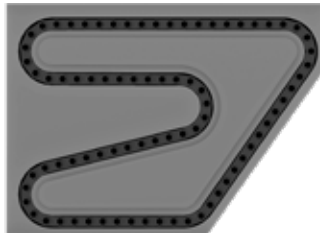
tool change time has been shortened to 3.5s (t-t) and this helps reduce non-cutting time. 2 types of AtC cycles for standard tools (15kg [33lb]) and heavy tools(27kg [59.5lb]) increase convenience.



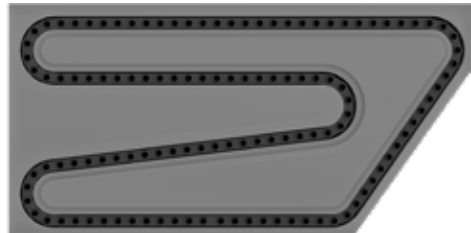
40 Tool



80 Tool **OPTION**



120 Tool **OPTION**



Machine Dimensions According to Magazine Selection

40 Tool	80 Tool	120 Tool
5,510 mm (216.9")	6,700 mm (263.8")	8,125 mm (319.9")

SPECIFICATIONS

Standard & Optional

Spindle		KH80G
4,500rpm (26kW [35HP])	FANUC	●
6,000rpm (26kW [35HP])	FANUC	○
4,500rpm (26kW [35HP])	SIEMENS	○
6,000rpm (26kW [35HP])	SIEMENS	○
Spindle Cooling System		●
ATC		
	40	●
	60	-
ATC Extension	80	○
	90	-
	120	○
	BT50	●
	BBT50	○
Tool Shank Type	CAT50/BCV50	○
	HSK-A100	○
	27kg (59.5lb)	●
Heavy Weight Tool	35kg (77.2lb)	-
	D'andrea	☆
U-Center	45°	●
	60°	-
Pull Stud	90°	-
		●
Servo Motor Magazine		●
Table & Column		
APC	Shuttle	●
Tap Type Pallet		●
T-Slot Pallet		○
Std. Table	1°	●
B Axis NC Table	0.001°	○
Coolant System		
Std. Coolant (Nozzle)		●
Bed Flushing Coolant		●
	6bar	○
	20 bar	○
Through spindle coolant*	30 bar, 20 ℓ (5.3 gal)	○
	70 bar, 15 ℓ (3.9 gal)	☆
	70 bar, 30 ℓ (7.9 gal)	○
Shower Coolant		○
APC Chip Cleaning		-
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	400 ℓ (10.57 gal)	●
Cabin Screw Chip Conveyor		●
Chip Conveyor (Hinge/Scraper)	Left (Front)	○
	Left (Rear)	○
Magnetic Scraper Chip Conveyor(Side/Rear)		-
Special Chip Conveyor (Drum Filter)		☆
	Standard (180 ℓ [47.5 gal])	○
Chip Wagon	Swing (200 ℓ [52.8 gal])	○
	Large Size (330 ℓ [87.2 gal])	○
	Customized	☆
Safety Device		
Total Splash Guard		●
APC Splash Guard		○
ETC		
Tool Box		●
Customized Color	Need for Munsel No.	☆
CAD&CAM Software		☆
Air Lift Slide Method	Z Axis	●

● : Standard ○ : Option ☆ : Prior Consultation - : non applicable

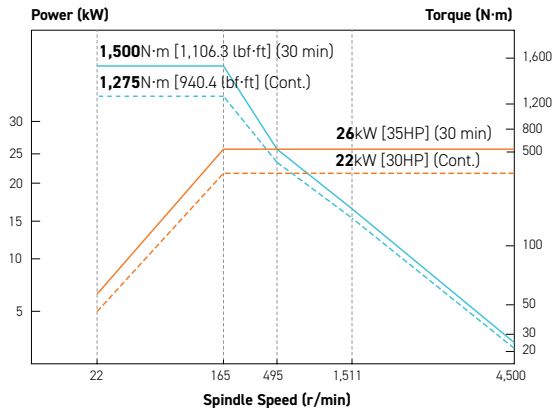
Electric Device		KH80G
Call Light	1 Color : ●	●
Call Light & Buzzer	3 Color : ● ● ● B	○
Work Light		●
Electric Cabinet Light		○
Remote MPG		●
3 Axis MPG		○
Work Counter	Digital	○
Total Counter	Digital	○
Tool Counter	Digital	○
Electric Circuit Breaker		○
AVR (Auto Voltage Regulator)		☆
Transformer	70kVA	○
Auto Power Off		○
Back up Module for Black out		○
Measuring Device		
Air Zero	TACO	☆
	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.	-
	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	○
PPL (6PPL)		○
Hyd. Device		
	45bar, 60 ℓ (16.9 gal)	-
Std. Hyd. Unit	50bar, 60 ℓ (16.9 gal)	-
	70 bar, 100 ℓ (26.4 gal)	●
Center Type		-
Hyd. Supply Unit (Upper)	2x4(8Port)	-
Manual Coupler	2x2(4Port)	☆
Auto Coupler		-
	45bar (653psi)	○
Hyd. Unit for Fixture	70bar (1,015psi)	○
	100bar (1,450 psi)	☆
	Customized	☆
S/W		
DNC software (HW-eDNC)		○
Machine Monitoring System (HW-MMS Cloud/Edge/Remote)		○
Machine Monitoring System & Analysis (HW-MMS Edge Plus)		☆
Automation CAM program (HW-ACAM)		○
Conversational program (HW-DPRO)		○
Machine Guidance (HW-MCG) : FANUC		●
Tool Monitoring (HW-TM)		○
Thermal Displacement Compensation (HW-TDC)		○
Spindle Warm up Function (HW-WARMUP) : FANUC		●
Energy Saving System (HW-ESS) : FANUC		●
RENISHAW GUI : FANUC		○
Machining Condition Selection (HW-MCS) : FANUC		●
Adaptive Feed Control (HW-AFC) : FANUC		●

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

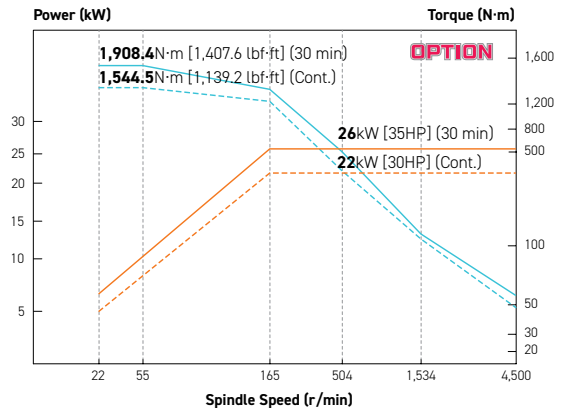
SPECIFICATIONS

Spindle Output/Torque Diagram

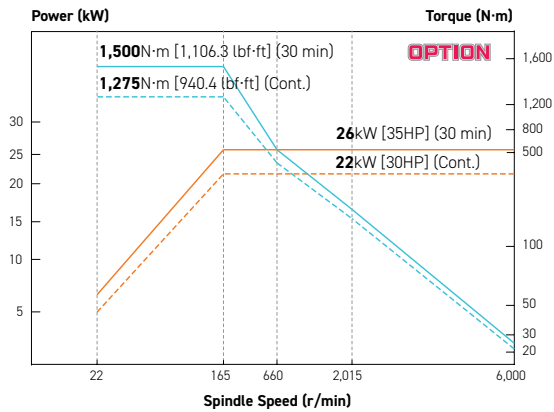
FANUC 4,500rpm



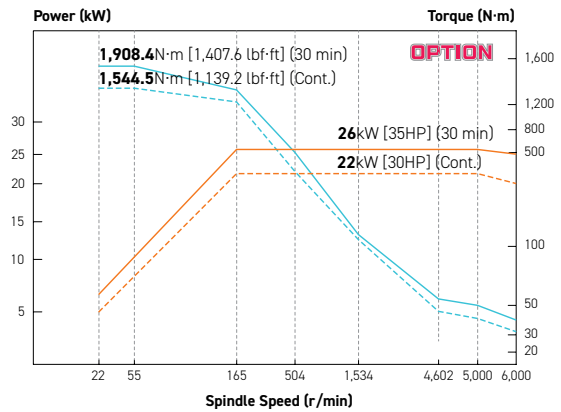
SIEMENS 4,500rpm



FANUC 6,000rpm



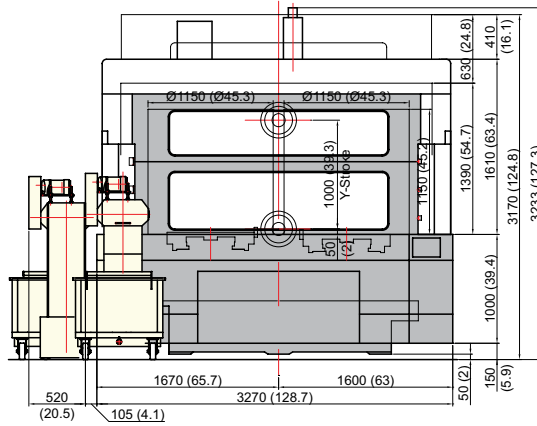
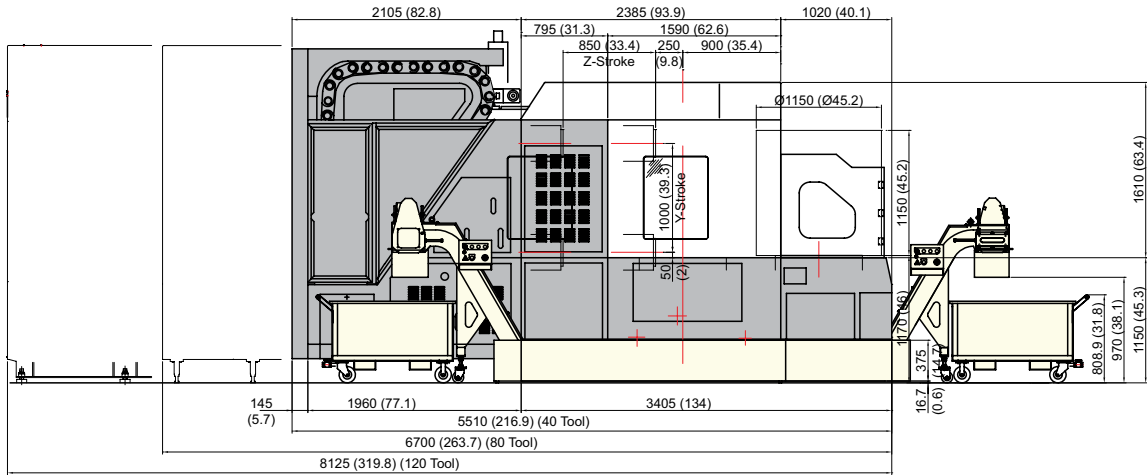
SIEMENS 6,000rpm



SPECIFICATIONS

External Dimensions

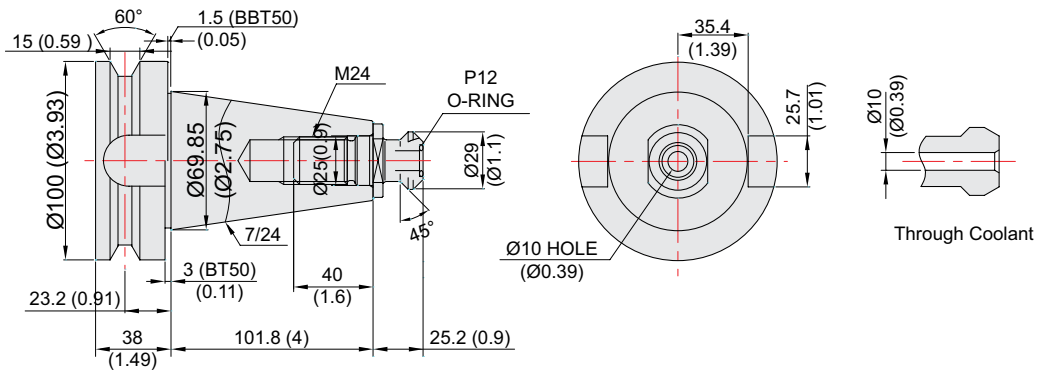
unit : mm(in)



Tool Shank

unit : mm(in)

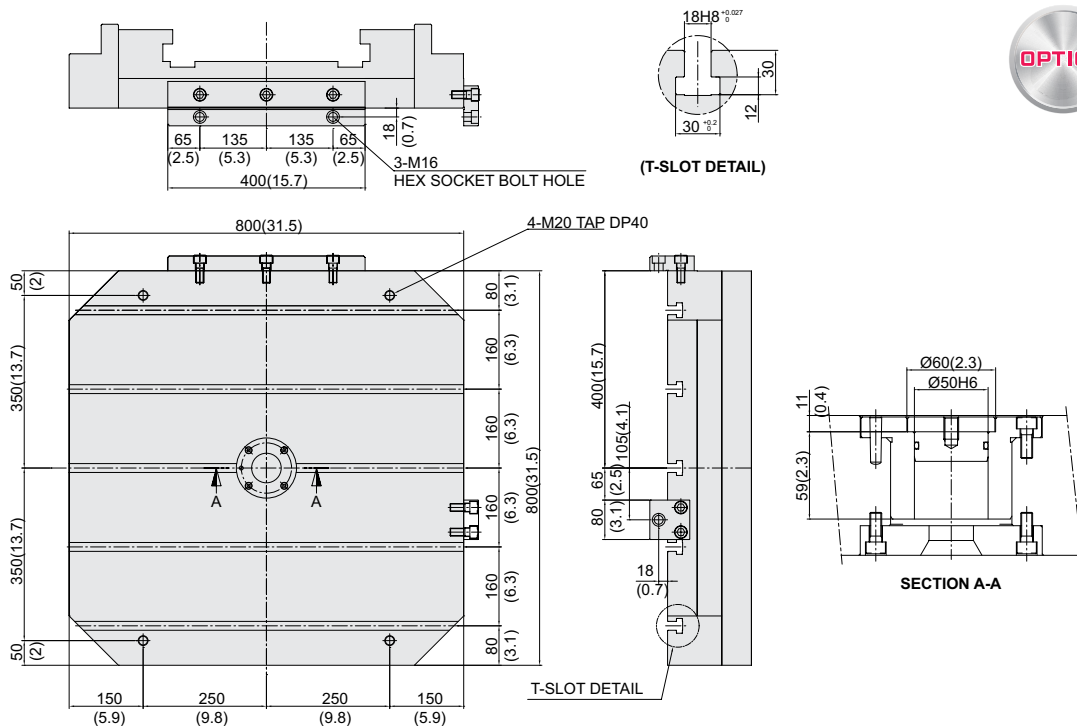
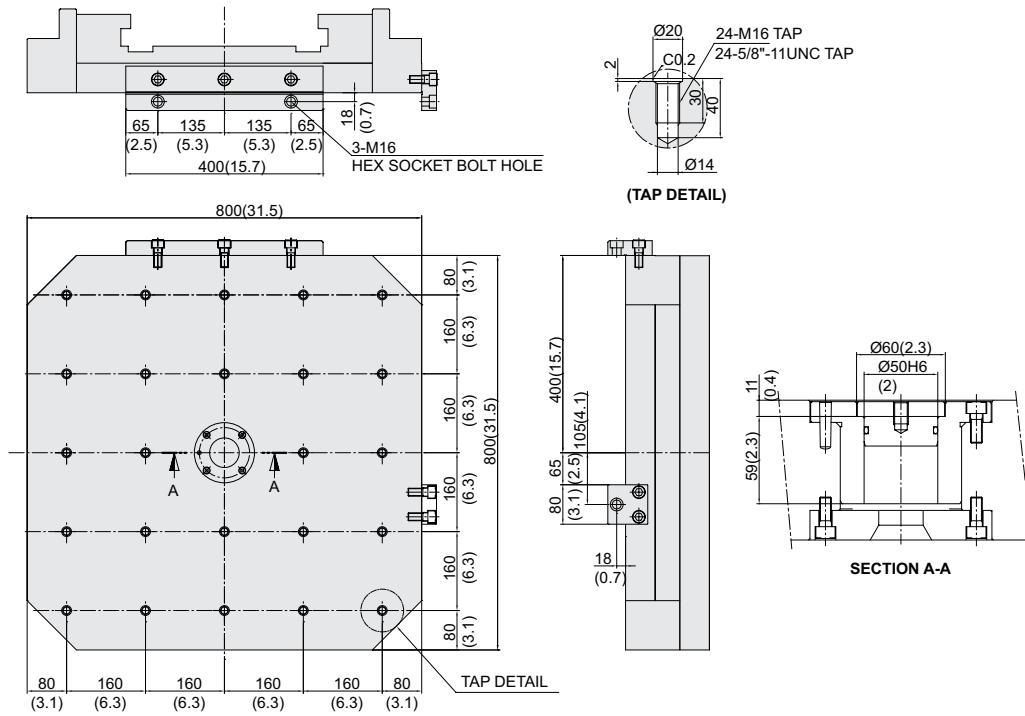
BT50/BBT50, BIG PLUS



SPECIFICATIONS

Table Dimensions

unit : mm(in)



SPECIFICATIONS

Specifications

[] : Option

ITEM		KH80G	
PALLET	Pallet Size	mm(in)	2-800×800 (2-31.5"×31.5")
	Maximum Load Capacity	kg(lb)	2-2,200 (2-4,850)
	Maximum Working Size	mm(in)	Ø1,150×H1,150 (Ø45.3"×H45.3")
	Min. Indexing Angle	deg	1° [0.001°]
SPINDLE	Spindle Taper	-	BT50 [BBT50] [HSK-A100]
	Spindle RPM	r/min	4,500 [6,000] [4,500] [6,000]
	Spindle Motor Output (Max./Cont.)	kW(HP)	26/22 (35/30) [26/22 (35/30)] [26/22 (35/30)] [26/22 (35/30)]
	Spindle Torque (Max./Cont.)	N·m(lbf·ft)	1,500/1,275 (1,106.3/940.4) [1,500/1,275 (1,106.3/940.4)] [1,908.4/1,544.5 (1,407.6/1,139.2)] [1,908.4/1,544.5 (1,407.6/1,139.2)]
	Spindle Driving Method	-	GEAR
FEED	Travel (X/Y/Z axis)	mm(in)	1,250/1,000/850 (49.2"/39.4"/33.5")
	Distance from Table Top to Sp. Center	mm(in)	50 ~ 1,050 (2"~41.3")
	Distance from Table Center to Sp. Nose	mm(in)	250 ~ 1,100 (9.8"~43.3")
	Rapid Traverse Rate (X/Y/Z)	m/min(ipm)	18/18/18 (709/709/709)
	Slide Type	-	X,Z Axis : LM GUIDE, Y Axis : BOX GUIDE
ATC	Number of Tools	EA	40 [80, 120]
	Tool Shank	-	BT50 [BBT50] [HSK-A100]
	Max. Tool Dia. (W.T/W.O)	mm(in)	Ø130/Ø260 (Ø4.3"/Ø9.6")
	Max. Tool Length	mm(in)	500 (19.7")
	Max. Tool Weight	kg(lb)	27 (59.5)
	Tool Selection Method	-	FIXED ADDRESS
	Tool Change Time	T-T	sec
C-C		sec	9.5
APC	No. of Pallet	EA	2 [6]
	Pallet Change Time	sec	28
	APC Type	-	SHUTTLE
TANK CAPACITY	Coolant Tank	ℓ(gal)	400 (105.7)
	Lubricating Tank	ℓ(gal)	3 (0.8) (2ea)
	Hyd. Tank Unit	ℓ(gal)	100 (23.7)
POWER SUPPLY	Air Consumption (0.5MPa)	ℓ/min(gal/min)	670 (177)
	Electric Power Supply	KVA	56
	Thickness of Power Cable	Sq	Over 25
	Voltage	V/Hz	220/60 (200/50*)
MACHINE	Floor Space (L×W)	mm(in)	5,510×3,270 (216.9"×128.7") (40 Tool)
	Height	mm(in)	3,233 (127.3")
	Weight	kg(lb)	21,500 (47,399)
PC	Controller	-	FANUC 31i-B [SIEMENS 840D sl]

*) 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-B

[] : Option ☆ Needed technical consultation

Controlled axis / Display / Accuracy compensation	
Control axes	3 axes (X, Y, Z) 4 axes (X, Y, Z, B)
Simultaneously controlled axes	3 axes [Max. 4 axes]
Least setting Unit	X, Y, Z axes : 0.001 mm (0.0001 inch) B axis : 0.001 deg
Least input increment	X, Y, Z axes : 0.001 mm (0.0001 inch) B axis : 0.001 deg
Inch / Metric conversion	G20 / G21
High response vector control	
Interlock	All axes / Each axis
Machine lock	All axes
Backlash compensation	± 0 ~ 9999 pulses (Rapid traverse / Cutting feed)
Position switch	
LCD / MDI	10.4 inch color LCD
Feedback	Absolute motor feedback
Stored stroke check 1	Over travel
Stored pitch error compensation	
Operation	
Automatic operation (Memory)	
MDI operation	
DNC operation	Needed DNC software / CF card
Program restart	
Wrong operation prevention	
Program check function	Dry run, Program check Z axis Machine lock, Stroke check before move
Single block	
Search function	Program Number / Sequence Number
Interpolation functions	
Pano interpolation	
Positioning	G00
Linear interpolation	G01
Cylindrical interpolation	G02, G03
Exact stop mode	Single : G09, Continuous : G61
Dwell	G04, 0 ~ 9999.9999 sec
Skip	G31
Reference position return	1st reference, G28 2nd reference, G27 Ref. position check, G30
Thread synchronous cutting	G33
Helical interpolation	Circular + Linear interpolation 2 axes(max.)
Feed function / Acc. & Dec. control	
Manual feed	Rapid traverse Jog : 0~5,000mm/min (197 ipm) Manual handle : x1, x10, x100 pulses Reference position return
Cutting feed command	Direct input F code
Feedrate override	0 ~ 200% (10% Unit)
Rapid traverse override	F0% (F1%), F25%, F50%, F100%
Override cancel	
Feed per minute	G94
Feed per revolution	G95
Look-ahead block	40 Block 200 Block (Mold)
Program input	
Tape Code	EIA / ISO
Optional block skip	1 ea
Absolute / Incremental program	G90 / G91
Program stop / end	M00, M01 / M02, M30
Maximum command unit	± 999,999.999 mm (± 99,999.9999 inch)
Plane selection	X-Y, G17 / Z-X, G18 / Y-Z, G19
Workpiece coordinate system	G52, G53, 48 pairs (G54.1 P1 ~ 48)
Manual absolute	Fixed ON
Programmable data input	G10
Sub program call	10 folds nested
Custom macro	#100 ~ #149, #500 ~ #549
G code system	A
Programmable mirror image	G51.1, G50.1
G code preventing buffering	G4.1
Including Chamfering / Corner R	
Canned cycle	G73, G74, G76, G80 ~ G89
Coordinate rotation	G68, G69

Auxiliary function / Spindle speed function	
Auxiliary function	M 4 digit
Level-up M Code	Multi / Bypass M code
Spindle speed command	S 5 digit , Binary output
Spindle override	0% ~ 150% (10% Unit)
Spindle orientation	M19
FSSB high speed rigid tapping	
Tool function / Tool compensation	
Tool function	Max. T 8 digit
Tool life management	256 pairs ☆
Tool offset pairs	64 pairs
Tool nose radius compensation	G40, G41, G42
Tool nose length compensation	G43, G44, G49
Tool offset memory C	Tool length, diameter, abrasion(length, diameter)
Tool length measurement	Z axis Input C
Editing function	
Part program storage size	640m (256KB)
No. of registerable programs	500 EA
Program protect	
Background editing	
Extended part program editing	Copy, move and change of NC program
Memory card program edit	
Data input / output & Interface	
I/O interface	RS 232C serial port, CF card, USB memory Embedded Ethernet interface
Screen hard copy	
External message	
External key input	
External workpiece number search	
Automatic data backup	
Setting, display and diagnosis	
Self-diagnosis function	
History display	Alarm & Operator message & Operation
Run hour / Parts count display	
Maintenance information	
Actual cutting feedrate display	
Display of spindle speed / T code	
Graphic display	
Operating monitor screen	Spindle / Servo load etc.
Power consumption monitoring	Spindle & Servo
Spindle / Servo setting screen	
Multi language display	Support 20 languages
Display language switching	Selection of 5 optional Languages
LCD Screen Saver	Screen saver
Processing select	Speed/ridigity setting
Option	
Additional optional block skip	9 ea ☆
Fast ethernet	Needed option board
Data server	Needed option board
Protection of data at 8 levels	
Sub Spindle control	
Polar coordinate command	G15, G16
Polar coordinate interpolation	G12.1, G13.1
Cylindrical interpolation	G07.1
One-way positioning	G60
Stored stroke check 2, 3	
Inverse-time feed	G93
Scaling	G50, G51
Manual guide i	Conversational auto program
Handle interrupt	
Manual handle feed	2/3 units #100~#199, #500~#999
Additional custom macro variables	#100~#199, #500~#999, #98000~#98499
Retraction for rigid tapping	
Tool management function	
Tool offset number	Max. 2000 pair ☆
Program storage capacity	512KB ~ 8MB ☆
Program registration number	Max. 4000 ea ☆
Additional work coordinate	Max. 300 pair (G54.1 P1 ~ P300)
AICC II	200 block 400 / 600 / 1000 block ☆

Figures in inch are converted from metric values.

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

CONTROLLER

SIEMENS 840D sl

[] : Option ☆ Needed technical consultation

Controlled axis / Display / Accuracy Compensation	
Control axes	4 axes (X1, Y1, Z1, B1)
Simultaneously controlled axes	Max. 4 axes
Least setting Unit	X, Y, Z axes : 0.001 mm (0.0001 inch), B axis : 1 deg [0.001 deg]
Least input increment	X, Y, Z axes : 0.001 mm (0.0001 inch), B axis : 1 deg [0.001 deg]
Inch / Metric changeover	G70 (inch) / G71 (metric)
Interlock	All axes / Each axis
Machine lock	All axes
Backlash compensation	
Pitch error compensation	
Feedforward control (Torque control)	
LCD / MDI	12 inch color LCD
Keyboard	ABCD Type
Stored stroke check	Over travel
Operation	
Automatic operation (Memory)	
MDI operation	
Program restart	
Program check function	Dry run / Program check / Machine lock
Single block	
Block search	Block search
Reposition	
Working area limit	Working area limitations
Interpolation functions	
Positioning	G00
Linear interpolation	G01
Circular interpolation	Circular Interpolation CW (G02) Circular Interpolation CCW (G03)
Exact position stop	Single block exact stop (G09) Exact stop G60 (G601, G602, G603)
Dwell	Dwell (G04)
Reference position return	Return to reference point Return to 2nd reference point
Helical interpolation	
Spline interpolation	Non-uniform rational B splines
Feed function / Acc. & Dec. control	
	Rapid traverse
Manual feed	Jog Manual handle Reference position return
Cutting Feed command	Direct input F code
Feedrate override	0 ~ 120%
Rapid traverse override	1%, 25%, 50%, 100%
Feed per minute	G94
Feed per revolution	G95
Program input	
ISO correspondence	G291(ISO)/G290 (SIEMENS) (ISO G Code system-A)
Optional block skip	8 ea (0~7)
Program stop / end	G90 / G91
Absolute / Incremental program	M00, M01 / M02, M30
Maximum command unit	± 999,999,999 mm, ± 99,999,9999 inch
Plane selection	X-Y : G17, X-Z : G18, Y-Z : G19 G54 ~ G57, G505~G549
Workpiece coordinate system	G500 (Basic frame - setable zero offset) G53 (Work offset non modal) G153 (basic frame non modal)
Sub program call	16 folds nested
G code preventing buffering	STOPRE
Drilling/Milling cycle	with programing support
User cycle	

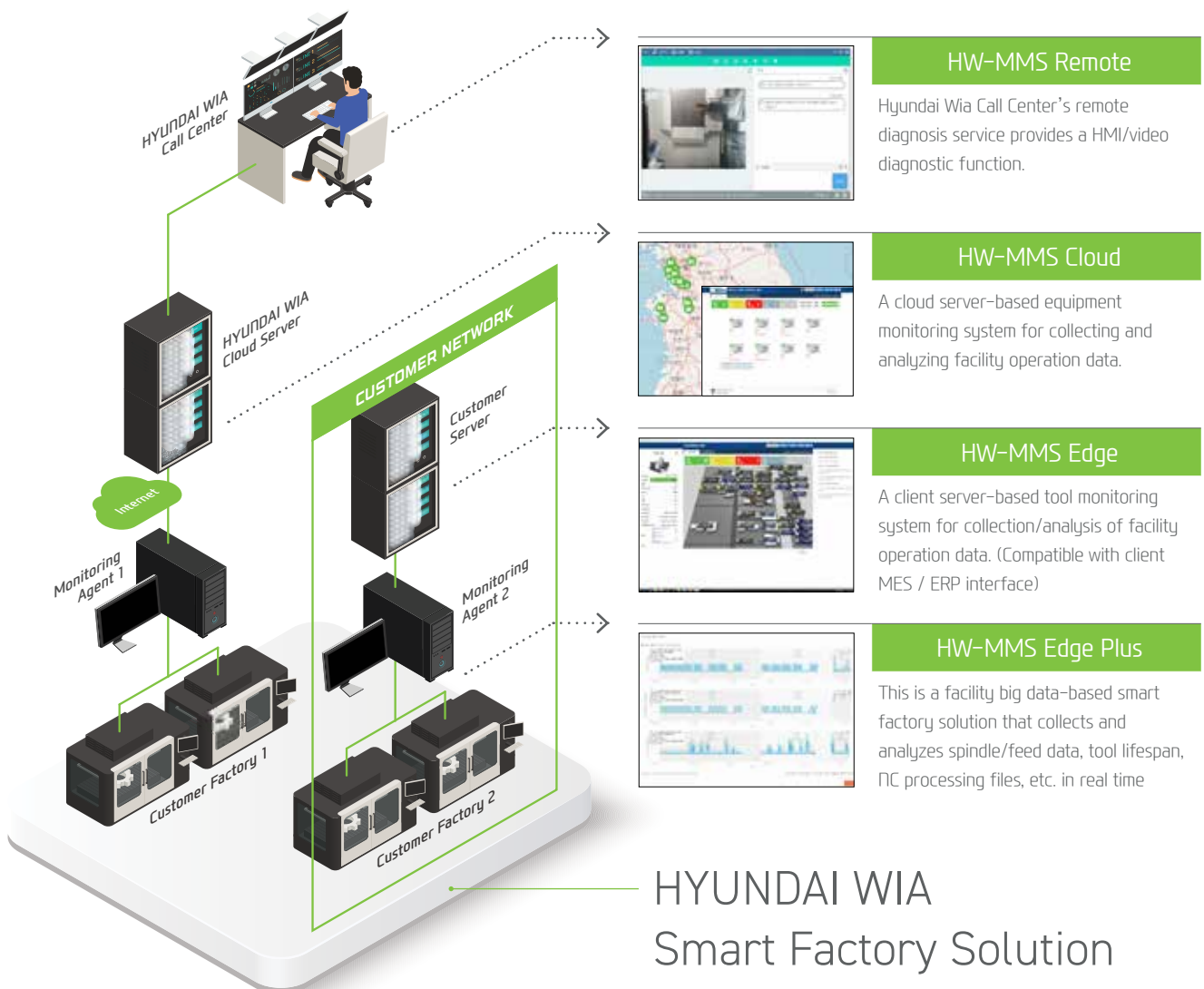
Auxiliary function / Spindle speed function	
Auxiliary function	M Code 4 digit
Spindle speed function	S Code 5 digit
Spindle override	0% ~ 120%
Spindle orientation	SPOS
Rigid tapping	
Automatic mode Interchange	Spindle / Axis mode
Constant surface speed control	G96, G97
Spindle speed limitation	LIMS
Tool function / Tool compensation	
Tool function	Tool number & Tool name
Tool life management	
Tools in tool list	600 ea
Cutting Edges in tool list	1,500 ea
Tool radius compensation	ISO (G40, G41, G42)
Geometry / Wear compensation	
Tool management function	
Editing function	
Part program storage size	10MB
External Storage devices	USB
Background editing	
Extended part program editing	Copy, move and change of NC program
Memory card program edit	
Data input / output & Interface	
I/O interface	USB memory interface Embedded Ethernet memory interface
Screenshot	
Setting, display and diagnosis	
Self-diagnosis function	
History display & Operation	Alarm & Operator message & Operation
Run hour / Parts count display	
Actual cutting feedrate display	
Display of spindle speed / T code	
Graphic display	
Operating monitor screen	Spindle / Servo load etc.
Multi language display	Support 7 languages Chinese, English, French, German, Italian, Korean, Spanish
LCD Screen Saver	Screen saver & Motion sensing
Option	
ShopMill	Machining step programming for milling
3D simulation	
Real time simulation	
Compressor (Improving machining quality)	Compacd / Compcurv (Cycle 832)
Look-ahead block	3,000 block (With Mdynamics)
Measurement of tool length	
Built-in PC	Industrial PC (IPC427E)
Multi language display	☆ 20 Support languages : Inquiry need

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