

KF

760BM/960BM

Vertical Machining Center for Machining High-quality Large Molds

HYUNDAI WIA Vertical Machining Center

Technical Leader

The Vertical Machining Center KF760BM/F960BM, designed by Hyundai WIA with years of expertise and the latest technology, is a heavy duty cutting machine with high-quality large molds.

		KF760BM	KF960BM
Table Size (L×W)	mm(in)	1,800×700 (70.9"×27.6")	2,700×950 (106.3"×37.4")
Max. Load Capacity	kg(lb)	2,000 (4,409)	4,500 (9,921)
Spindle Taper	-	BBT50	
Spindle Speed	r/min	12,000	
Sp. Power (Max./Cont.)	kW(HP)	30/25 (40/33.5)	
No. of Tools	EA	30 [40]	
Travel (X/Y/Z)	mm(in)	1,550/760/720 (61"/29.9"/28.3")	2,450/960/850 (96.5"/37.8"/33.5")
Rapid Traverse Rate	m/min(ipm)	16/16/12 (630/630/472)	16/16/16 (630/630/630)

[] : Option

KF

760BM/960BM

Vertical Machining Center for Heavy Duty Cutting

- Built-in main spindle for processing high quality mold products
- Box guideways on all axes for superb heavy duty cutting
- 4 Guideways employ 10-face contact design (KF960BM)
- Air Semi-Rising slideway to decrease feed load
- Prevent vibration fundamentally by separated column and magazine
- Hynudai WIA mold package for optimal mold product machining (Opt.)



01 BASIC STRUCTURE

High-quality, Optimal Structure for Large Mold Machining

ATC & Magazine

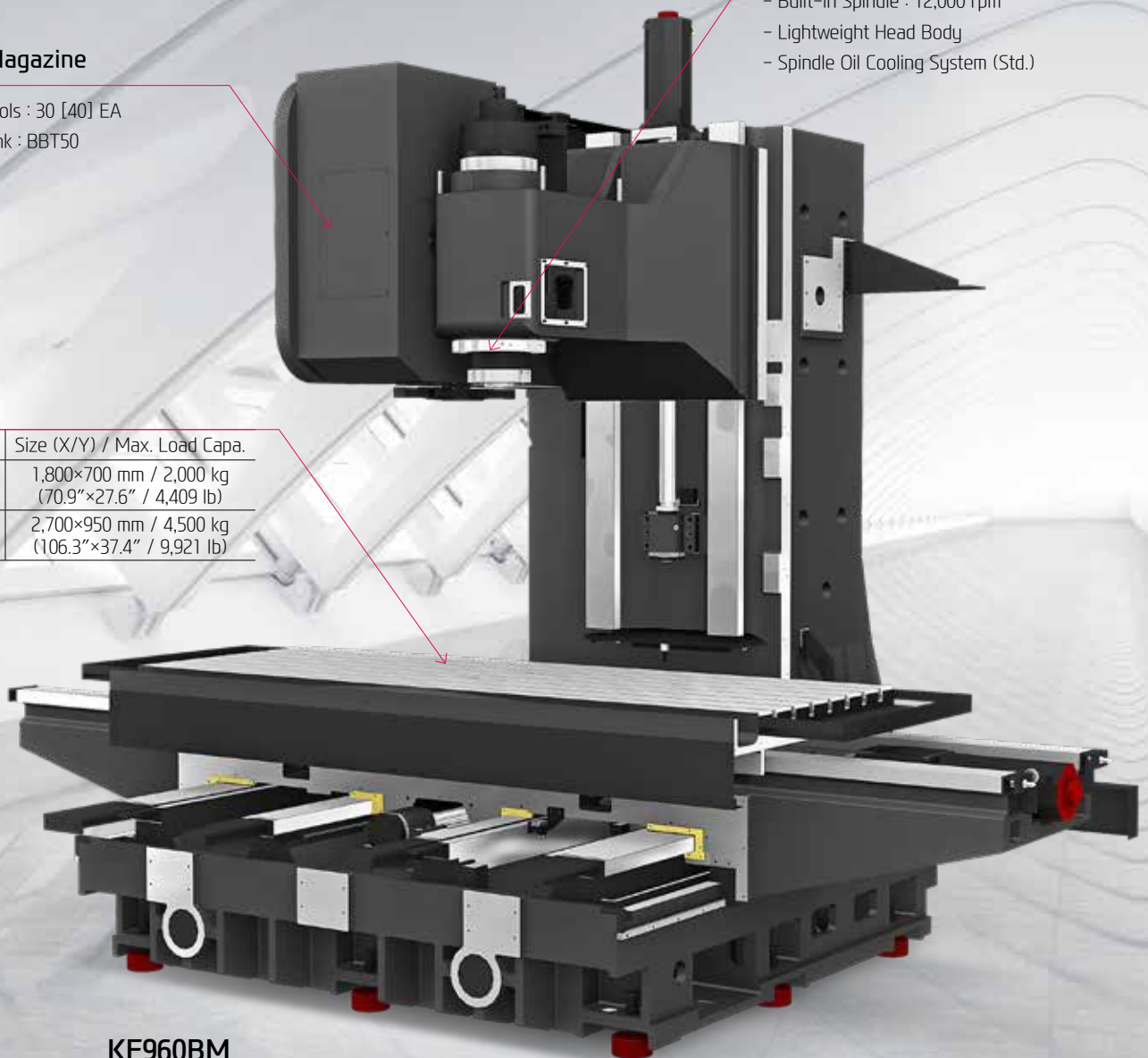
- No. of Tools : 30 [40] EA
- Tool Shank : BBT50

High Precision Spindle

- Built-in Spindle : 12,000 rpm
- Lightweight Head Body
- Spindle Oil Cooling System (Std.)

Table

Model	Size (X/Y) / Max. Load Capa.
KF760BM	1,800×700 mm / 2,000 kg (70.9"×27.6" / 4,409 lb)
KF960BM	2,700×950 mm / 4,500 kg (106.3"×37.4" / 9,921 lb)



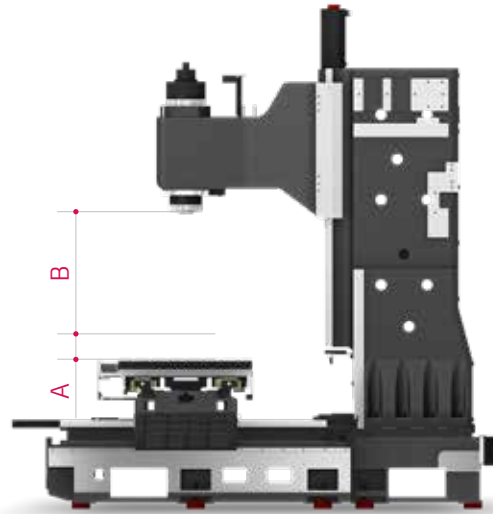
KF960BM

HEAVY DUTY CUTTING & LARGE WORKING AREA

HIGH-PRECISION STRUCTURE

Optimal Structural Analysis

KF760BM/960BM is designed to have optimal structure through Hyundai WIA's unique structural analysis. In particular, enhancement of bed and column's rigidity makes excellent performance even in heavy duty cutting.



Distance from Table Top to Spindle Nose

KF760BM (A~B)

200~920 mm (7.9"~36.2")

KF960BM (A~B)

200~1,050 mm (7.9"~41.3")

INCREASED RIGIDITY FOR STABLE MACHINING

We enhanced the rigidity of bed and column compared to the previous model for the better absorption of vibration.

In particular, this exhibits the optimal performance for mold machining through increased ribs and additional weight based on unique interpretation technique of Hyundai Wia.



KF760/960BM

02 HIGH RIGIDITY SLIDEWAY

Optimized vibration absorption capacity by large box guide on all axes



Travel (X/Y/Z)

KF760BM

1,550/760/720 mm (61"/29.9"/28.3")

KF960BM

2,450/960/850 mm (96.5"/37.8"/33.5")

Rapid Traverse Rate (X/Y/Z)

KF760BM

16/16/12 m/min (630/630/472 ipm)

KF960BM

16/16/16 m/min (630/630/630 ipm)

HIGH RIGIDITY AND STABLE CONVEYING STRUCTURE

GUIDE WAY

All Axes Box Guideway

Box guideways effectively offset vibration enabling the machining of high precision products. The travel load is spread evenly on the surface of guideways. This enhances stability and rigidity allowing high performance heavy duty cutting.



4 Slideway

KF760BM/960BM designed with 4-slideway of wide Y-axis to minimize the displacement by the over-hang, and it is possible to perform high-precision heavy-duty cutting.

Air Semi-Rising Slideway

By applying the air semi-rising slideways, the load on the X/Z-axis slideway is decreased. Therefore, positioning and repeatability accuracy can be maintained for a long time.

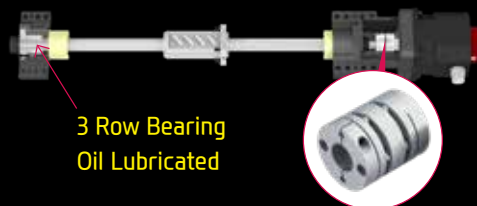
10-face Contact Y-axis Slideway (KF960BM)

The table is supported at all times by 10-face contact box guideways. This allows for a maximum table load of 4,500 kg (9,921 lb) without any distortion in the table.

DOUBLE ANCHORED BALL SCREW

The pretensioned ball screw minimizes the expansion and contraction according to the heat and further reinforces the rigidity by the double anchor support method.

In addition, the coupling of the ballscrews and the highly reliable digital servo motors are connected by metal plate couplings, to reduce coupling breakage and backlash.



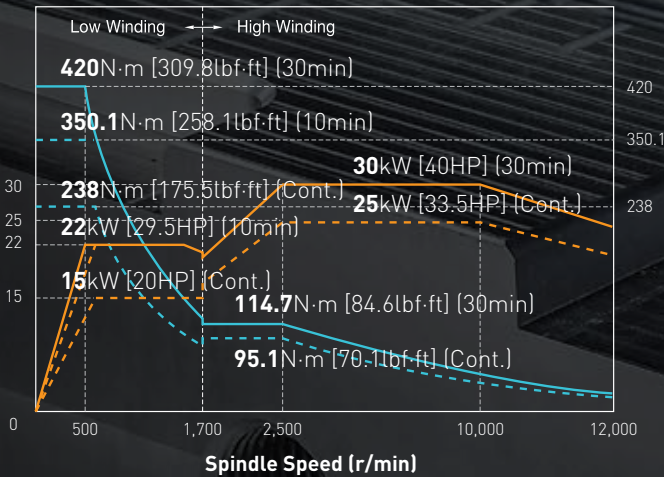
03 HIGH PRECISION SPINDLE

Excellent machining performance with high-precision spindle

KF760/960BM 12,000rpm (Built-in)

Power (kW [HP])

Torque (N·m [lbf·ft])



12,000rpm

30/25 kW (Max./Cont.)
Power

(40/33.5 HP)

420/238 N·m (Max./Cont.)
Torque

(309.8/175.5 lbf·ft)

HIGH-PERFORMANCE, HIGH-PRECISION SPINDLE

SPINDLE

High-precision Built-in Spindle

By using ultra precision angular ball bearings, fast acceleration and deceleration of the main spindle is achieved. The spindle head is designed to minimize the heat displacement of main spindle, and with the use of hydraulic Power tool lock system, the machining stability has increased.

Head Body Weight Reduction

Especially, over-hang problem is decreased due to weight reduction(10%) of main spindle compare to the previous model to achieve high-quality mold machining.

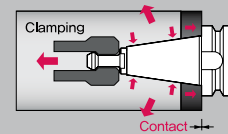
Spindle Cooling

The spindle cooling system minimizes thermal displacement which can happen during lengthy machining operations, and offers continued accuracy based on the thermal stability.



Dual Contact Spindle

The Big Plus spindle system (BBT50) provides dual contact between the spindle face and the flange face of the tool holder.



- ❖ The increase in standard diameter improves rigidity and ATC repeatability, and Z-axis displacement prevention further extends tool life.

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

KF760/960BM

04 ATC & TABLE

High Productivity Achieved with High Rigidity, Accuracy Machining

No. of Tools

30 [40]_{EA}

Max. Tool Length

300_{mm} (11.8")

Max. Tool Dia. (W.T/W.O)

Ø125/Ø240_{mm} (Ø4.9"/Ø9.4")

Tool Selection Method

Random

Max. Tool Weight

20_{kg} (44.1 lb)

Tool Shank

BBT50

[] : Option

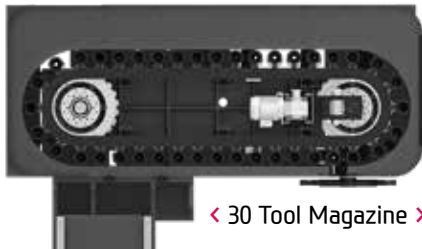
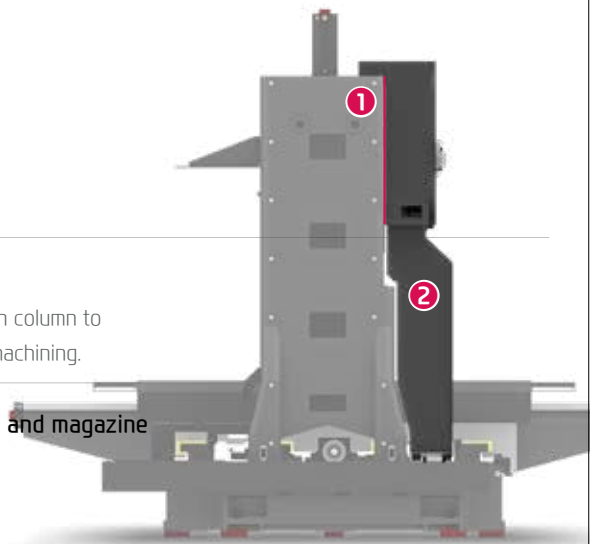
HIGH RIGIDITY, TOOL CHANGE SYSTEM

ATC & MAGAZINE

Magazine Separated Brackets

Magazine of KF760BM/960BM is separated from the main column to avoid magazine vibration which can affect precise mold machining.

- ❶ 10mm (0.4") separation design between column and magazine
- ❷ Magazine separated Brackets



Magazine

KF760BM/960BM provides a tool magazine of 30 tools as standard. 40 tools are provided as an option.

Also, ATC with high precision CAM provides fast and accurate tool change, reducing non-cutting time.

TABLE

Compared to competitive machines, the KF760BM/960BM has a large working capacity to make setup easier and provide convenience to the operator.

Model	Size	Load Capacity
KF760BM	1,800×700 mm (70.9"×27.6")	2,000 kg (4,409 lb)
KF960BM	2,700×950 mm (106.3"×37.4")	4,500 kg (9,921 lb)

NC Rotary Table **OPTION**

The NCRT makes it possible to machine up to 5-axis. Various types of products can be machined.

❖ When ordering a NC Rotary Table, prior consult with hyundai wia's sales person.



KF760/960BM

06 MOLD PACKAGE

Powerful Mold Package, HYUNDAI-WIA Mold All in One

MOLD PACKAGE

To enhance mold machining, the "HWM ALL-IN-ONE" is provided as an option feature for KF760BM/960BM. This ensures accurate and high quality surface finishing and contouring.



HWM ALL-IN-ONE



- ❶ High Speed Contouring Control (AICC II)
- ❷ Development S/W
HW-MCS (Selectable Process Conditions), HW-AFC (Adaptive Feed Control)
- ❸ Main Spindle Cooling Device (8-channel) – Maintain spindle temperature (heat sensor)
- ❹ Cutting Air Blow – Cutting air blow is provided for mold machining.
- ❺ Auto Tool Measuring Device – Detects and sets tool length, and attrition (Graphic User Interface included)

Thermal Displacement Compensation Device

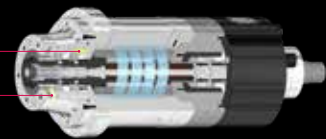
● Cooling system & Lubrication system

Thermal displacement of the spindle is minimized by the use of cooling techniques. This provides high accuracy when machining at high speed.

T.D.C With PT100 Sensor

Interface

T.D.C With Disp. Sensor



MOLD PACKAGE OPTION

1 Package : Standard 2, 3, 4 Package : Option

HWM ALL IN ONE		1 Package	2 Package	3 Package	4 Package
AICC II Package	200 block	•	•		
	600 block			•	
	1,000 block				•
S/W : HW-MCS, HW-AFC		•	•	•	•
Auto Power Off		•	•	•	•
Spindle Heat Distortion Compensation Device		•	•	•	•
Cutting Air Blow		•	•	•	•
Auto Tool Measuring Device (TS27R)		•	•	•	•
Data Server 1GB			•	•	•

SPECIFICATIONS

Standard & Optional

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

Spindle		KF760BM	KF960BM
12,000rpm (30kW [40HP])	Built-in	●	●
Spindle Cooling System		●	●
ATC			
ATC Extension	30	●	●
	40	○	○
Tool Shank Type	BBT50	●	●
	BCV50	○	○
U-Center	D'andrea	○	○
	45°	●	●
Pull Stud	60°	○	○
	90°	○	○
Table & Column			
APC	Rorary Turn	-	-
Tap Type Table		-	-
T-Slot Table		●	●
NC Rotary Table		☆	☆
High Column	250mm (9.8")	☆	☆
Coolant System			
Std. Coolant (Nozzle)		●	●
Bed Flushing Coolant		●	●
Through spindle coolant*1)	20bar	○	○
	30bar, 20 ℓ	○	○
	70bar, 15 ℓ	○	○
	70bar, 30 ℓ	○	○
Top Cover (Thru coolant applied when necessary)		○	○
Shower 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 (Sub Tank)		☆	☆
Power Coolant System (For Automation)		☆	☆
Chip Disposal			
Coolant Tank	496 ℓ (131 gal)	●	-
	840 ℓ (221.9 gal)	-	●
Interior Screw Chip Conveyor		●	●
Exterior Screw Chip Conveyor		●	●
Chip Conveyor (Hinge/Scraper)	Rear(Right)	○	○
	Left(Rear)	○	○
	Front(Left)	-	-
Chip Conveyor (Hinge)	Front(Right)	-	-
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			
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)		●	●
Tool Monitoring (HW-TM)		○	○
Thermal Displacement Compensation (HW-TDC)		○ (Mold ●)	○ (Mold ●)
Spindle Warm up Function (HW-WARMUP)		●	●
Energy Saving System (HW-ESS)		●	●
RENISHAW GUI		○ (Mold ●)	○ (Mold ●)
Machining Condition Selection (HW-MCS)		●	●
Adaptive Feed Control (HW-AFC)		●	●

Electric Device		KF760BM	KF960BM
Call Light	1 Color : ●	●	●
Call Light & Buzzer	3 Color : ● ● ● B	○	○
Work Light		●	●
Electric Cabinet Light		○	○
Remote MPG		●	●
3 Axis MPG	FANUC	○	○
Work Counter	Digital	○	○
Total Counter	Digital	○	○
Tool Counter	Digital	○	○
Multi Tool Counter	6 EA	○	○
	9 EA	○	○
Electric Circuit Breaker		○	○
AVR (Auto Voltage Regulator)		☆	☆
Transformer	40kVA	○	-
	45kVA	-	○
Auto Power Off		○ (Mold Package ●)	○ (Mold Package ●)
Back up Module for Black out		○	○
Measuring Device			
Air Zero	TACO	○	○
	SMC	○	○
Work Measuring Device		○	○
TLM (Marposh/Renishaw/Blum)	Touch	○ (Mold Package ●)	○ (Mold Package ●)
	Laser	○	○
Tool Broken Detective Device		☆	☆
Linear Scale	X/Y/Z Axis	○	○
Coolant Level Sensor (Only for Chip Conveyor, Bladder Type)		☆	☆
Enviornment			
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		☆	☆
NC Rotary Table/F	Single	○	○
	Channel	☆	☆
Control of Additional Axis	1Axis	○	○
	2Axis	☆	☆
External M Code 4ea		○	○
Automation Interface		☆	☆
I/O Extension (In & Out)	16 Contact	○	○
	32 Contact	○	○
Hyd. Device			
Std. Hyd. Unit	70bar/13 ℓ (3.4 gal)	-	-
	45bar	○	○
Fixture Hyd. Unit	70bar	○	○
	100bar	☆	☆
	Customized	☆	☆
ETC			
Tool Box		●	●
Customized Color	Need for Munsel No.	☆	☆
CAD&CAM Software		☆	☆

*1 : Please check the filter types with sales representative.

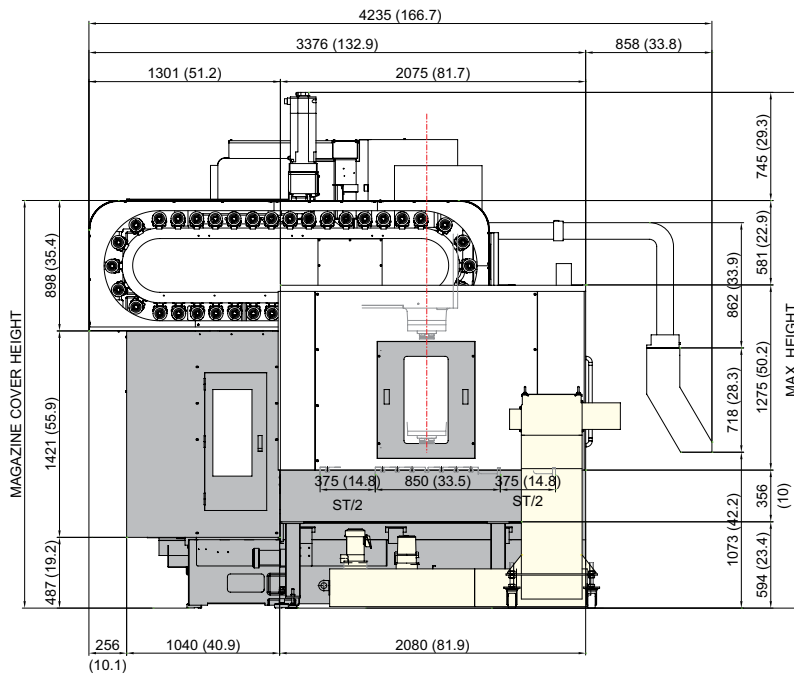
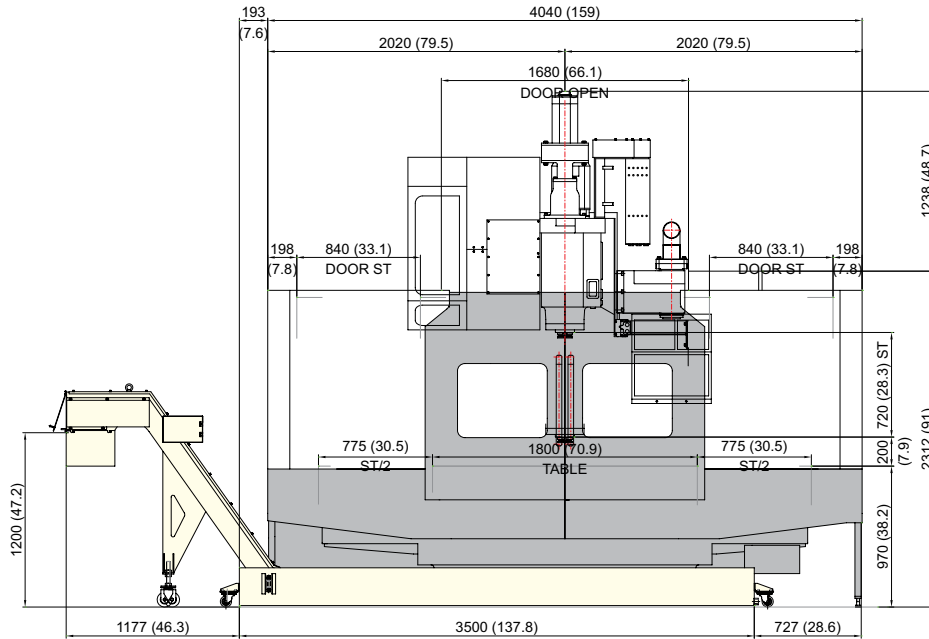
Specifications are subject to change without notice for improvement.

SPECIFICATIONS

External Dimensions

unit : mm(in)

KF760BM



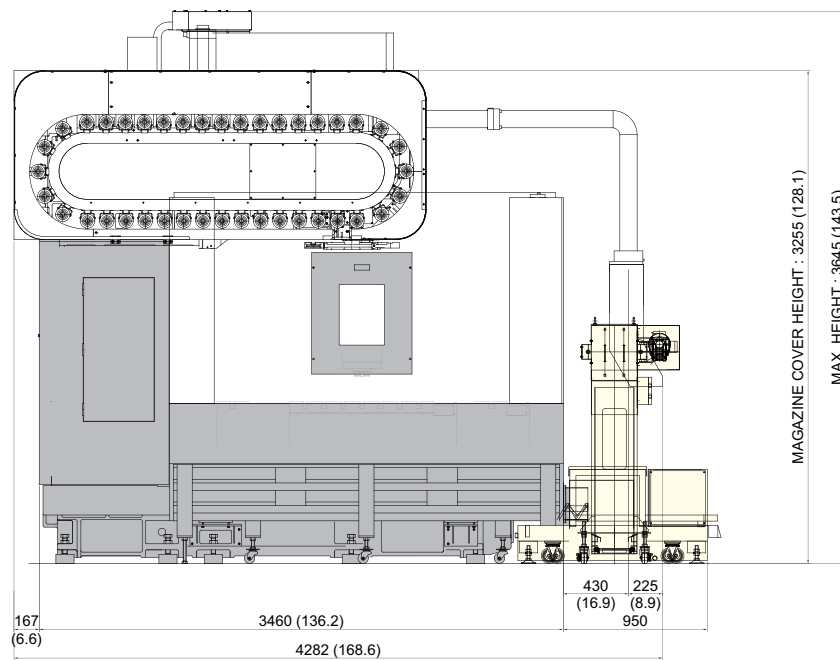
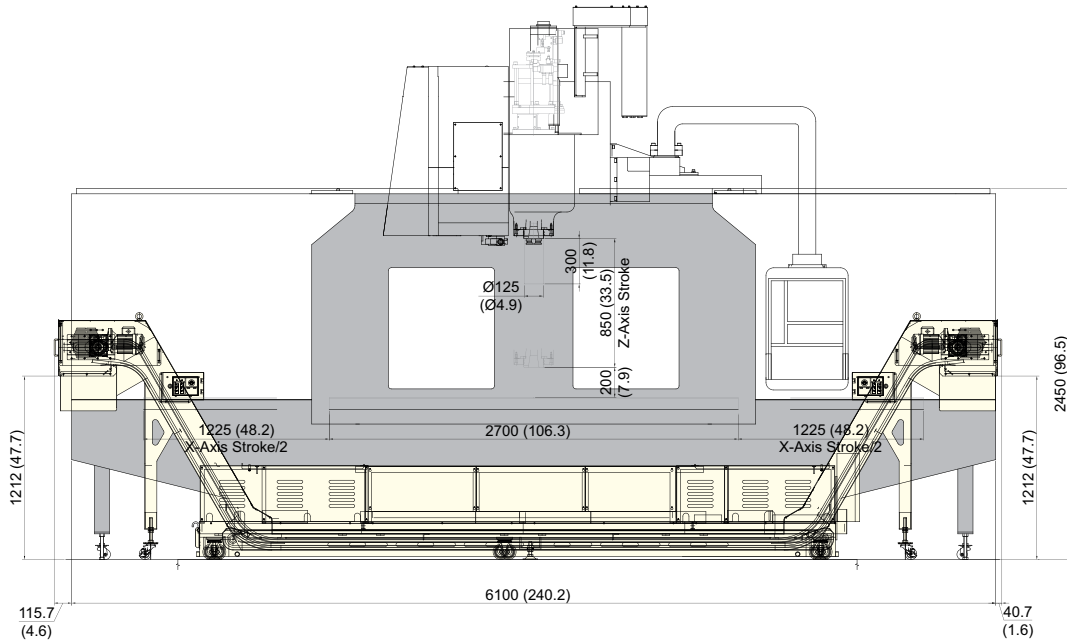
Height Item	Max. Height	Height to Magazine Cover		Shipping Height	Spindle Motor Height
		20 tool	40 tool		
Std. Column	3,491 (137.4)	2,805 (110.4)	2,805 (110.4)	3,491 (137.4)	3,225 (127)

SPECIFICATIONS

External Dimensions

unit : mm(in)

KF960BM

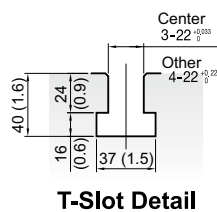
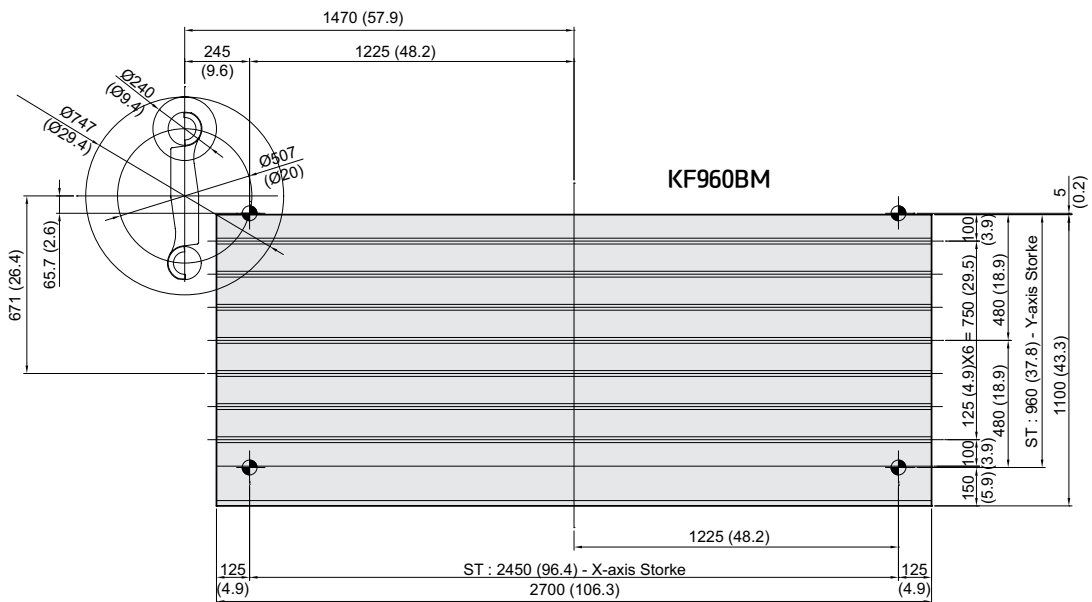
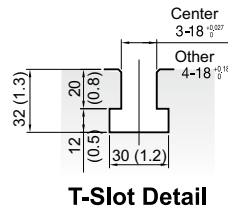
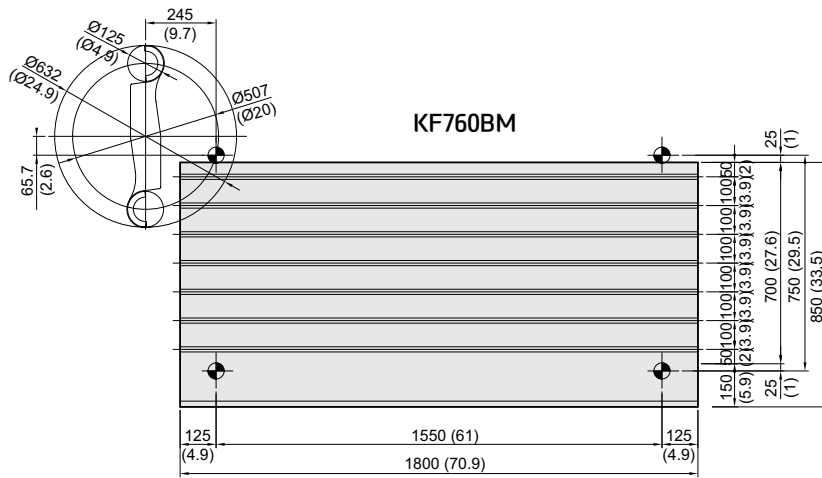


Height Item	Max. Height	Height to Magazine Cover		Shipping Height	Spindle Motor Height
		20 tool	40 tool		
Std. Column	3,647 (143.6)	3,255 (128.1)	3,255 (128.1)	3,554 (139.9)	3,647 (143.6)

SPECIFICATIONS

Table Dimensions

unit : mm(in)

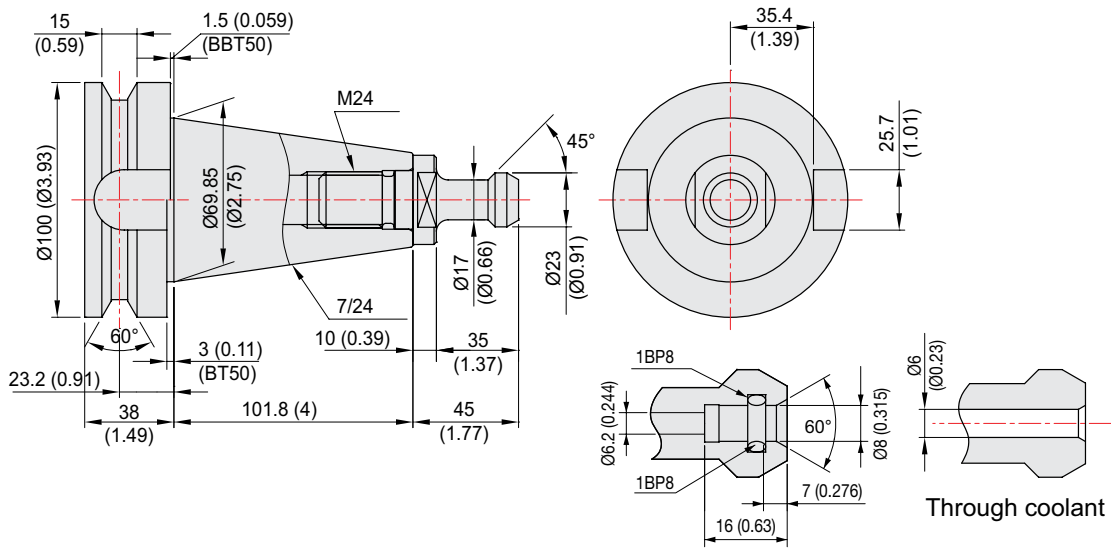


SPECIFICATIONS

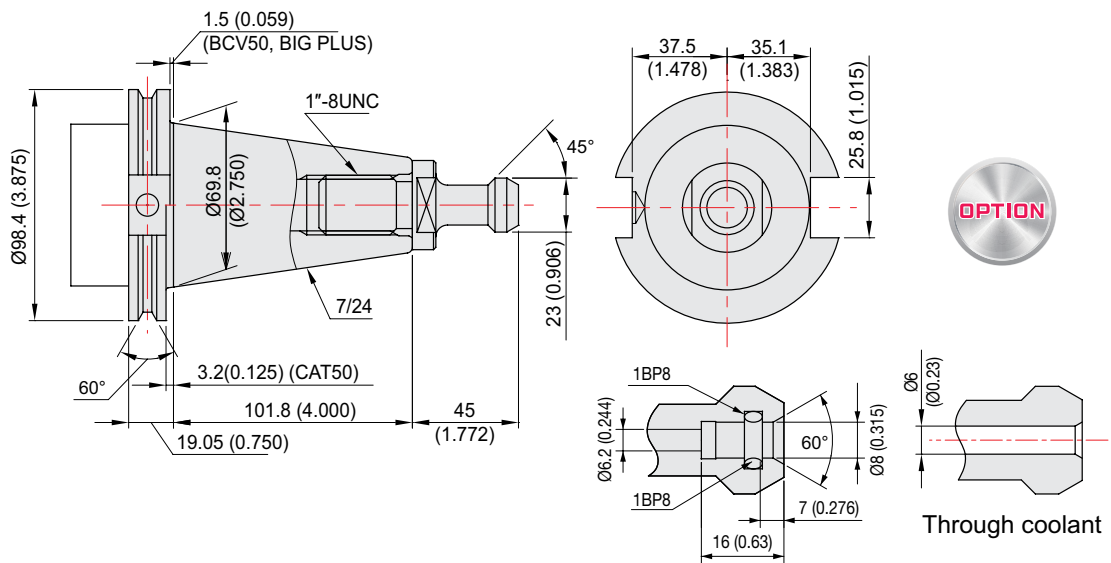
Tool Shank

unit : mm(in)

BT50/BBT50, BIG PLUS



CAT-50/BCV50



SPECIFICATIONS

Specifications

[] : Option

ITEM		KF760BM	KF960BM
TABLE	Table Size	mm(in)	1,800×700 (70.9"×27.6")
	Maximum Load Capacity	kg(lb)	2,000 (4,409)
SPINDLE	Spindle Taper	-	BBT50
	Spindle RPM	r/min	12,000
	Spindle Driving Method	-	BUILT-IN
	Power (Max./Cont.)	kW(HP)	30/25 (40/33.5)
	Torque (Max./Cont.)	N·m	420/238 (309.8/175.5)
FEED	Travel (X/Y/Z)	mm(in)	1,550/760/720 (61" /29.9" /28.3")
	Rapid Traverse Rate (X/Y/Z)	m/min(ipm)	16/16/12 (630/630/472)
	Distance from Table Top to SP. Nose	mm(in)	200~920 (7.9"~36.2")
	Distance from Column to SP. center	mm(in)	790 (31.1")
	Slide Type	-	BOX GUIDE
ATC	Number of Tools	EA	30 [40]
	Tool Shank	-	BBT50
	Max. Tool Dia. (W.T / W.O)	mm(in)	Ø125/Ø240 (Ø4.9" /Ø9.4")
	Max. Tool Length	mm(in)	300 (11.8")
	Max. Tool Weight	kg(lb)	25 (55.1)
	Tool Selection Method	-	RANDOM
	Tool Change Time	T-T	sec
C-C		sec	6.5
TANK CAPACITY	Coolant Tank	ℓ (gal)	496 (131)
	Lubricating Tank	ℓ (gal)	3.1 (0.8)
	Hydraulic Tank	ℓ (gal)	24 (6.3)
POWER SUPPLY	Air Consumption (0.5MPa)	ℓ /min(gal)	250 (66)
	Electric Power Supply	KVA	35
	Thickness of Power Cable	Sq	Over 25
	Voltage	V/Hz	220/60 (200/50*)
MACHINE	Floor Space (L×W)	mm(in)	4,040×4,235 (159"×166.7")
	Height	mm(in)	3,491 (137.4")
	Weight	kg(lb)	14,500 (31,967)
NC	Controller	-	FANUC 31i-B

*) 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 axes : 1 deg [0.001] deg
Least input increment	X, Y, Z axes : 0.001 mm (0.0001 inch) B axes : 1 deg [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	
Nano 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, 6 pairs (G54 ~ G59)
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/rigidity 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
Additional custom macro variables	#100~#199, #500~#999
Retraction for rigid tapping	#100~#199, #500~#999, #98000~#98499
Tool management function	
Tool offset number	Max. 2000 pair ☆
Program storage capacity	512KB ~ 8MB ☆
Program registration number	Max. 4000 ea ☆
Additional work coordinate	48 pair (G54.1 P1 ~ P48)
AICC II	200 block 400 / 600 / 1000 block ☆

Figures in inch are converted from metric values.

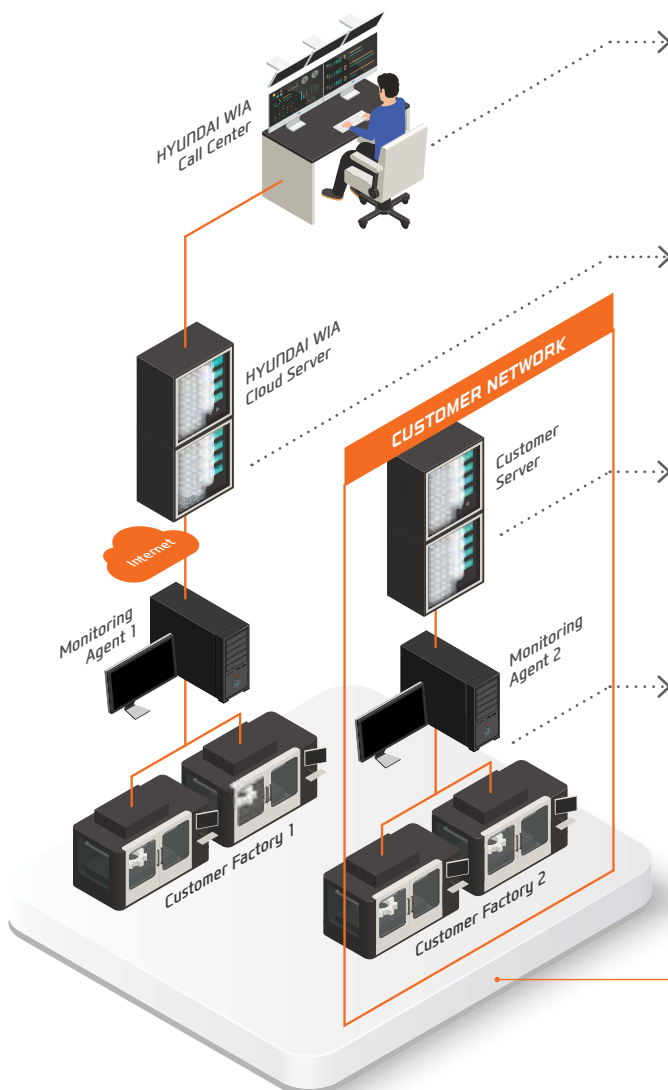
The FANUC controller specifications are subject to change based on the policy of company CNC supplying.

HW-MMS

HYUNDAI WIA Machine Monitoring System



A manufacturing machine self-developed 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

Hyundai Wia Call Center's remote diagnosis service provides a HMI/video diagnostic function.



HW-MMS Cloud

A cloud server-based equipment monitoring system for collecting and analyzing facility operation data.



HW-MMS Edge

A client server-based tool monitoring system for collection/analysis of facility operation data. (Compatible with client MES / ERP interface)



HW-MMS Edge Plus

This is a facility big data-based smart factory solution that collects and analyzes spindle/feed data, tool lifespan, PC processing files, etc. in real time

HYUNDAI WIA
Smart Factory Solution



You Tube HYUNDAI WIA MT

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