

Hi-MOLD750/5A

HYUNDAI WIA Vertical Machining Center for Mold Machining



Technical Leader

The Vertical Machining Center Hi-MOLD750/5A designed by Hyundai WIA with years of expertise and the latest technology, is made to meet the intense performance requirements of the mold industry.



5 axis mold processing Vertical Machining Center

Hi-MOLD750/5A

- Double column structure
- Highly accurate main spindle with ultra precise angular contact bearings
- High speed built-in main spindle(15,000rpm) for highest quality of molds
- Built-in 5-axis table fulfills various processing needs
- Hyundai WIA mold package for optimal processing of mold parts





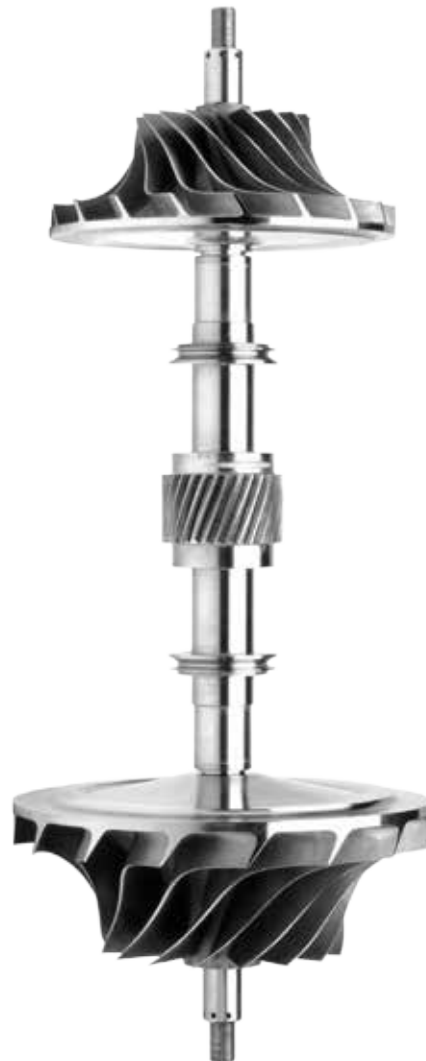


5-Axis Vertical Machining Center

Within the travel system, large linear roller guides provide superb acc/deceleration speed and reduce non-cutting time. And also, each axis' ball screw is linked with highly reliable Digital Servo Motor to enhance accuracy.

Hi-MOLD750/5A

Table Size	mm(in)	Ø630×500 (24.8"×19.7")
Max. Load Capacity	kg(lb)	500 (1,102)
Spindle Taper	-	HSK-A63
Spindle Speed	r/min	15,000
Spindle Output	kW(HP)	25/22 (33/29)
No. of Tools	EA	30
Travel(X/Y/Z)	mm(in)	650/765/510 (25.6"/30.1"/20")
Rapid Traverse Rate	m/min(ipm)	50/50/50 (1,968/1,968/1,968)

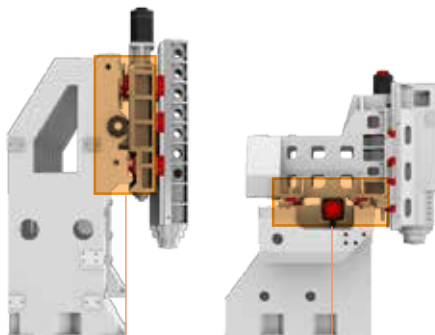


01

Hi-MOLD
750/5A

Basic Features

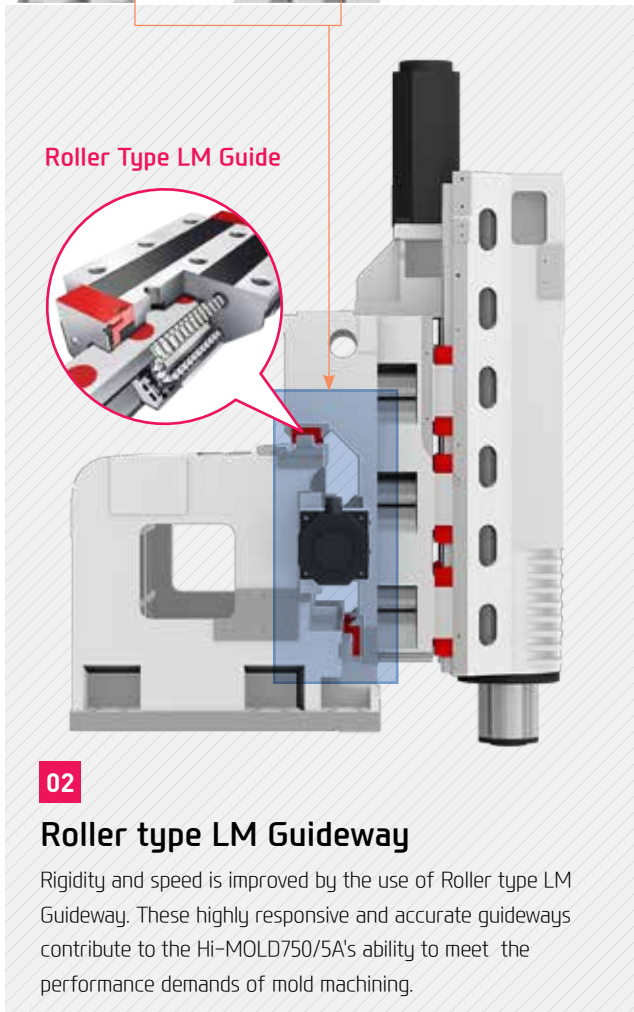
High Speed & Productivity
5-Axis Vertical Machining Center



01

Super rigid X-Axis Slideway

X-axis slideway is attached on the column's upper surface to minimize sag. Hyundai WIA's double column construction is a superior design for the machining of high quality products.



Roller Type LM Guide

02

Roller type LM Guideway

Rigidity and speed is improved by the use of Roller type LM Guideway. These highly responsive and accurate guideways contribute to the Hi-MOLD750/5A's ability to meet the performance demands of mold machining.

Built-in Spindle

A maximum spindle speed of 15,000rpm is possible due to the installation of ultra precision Angular Ball Bearings.

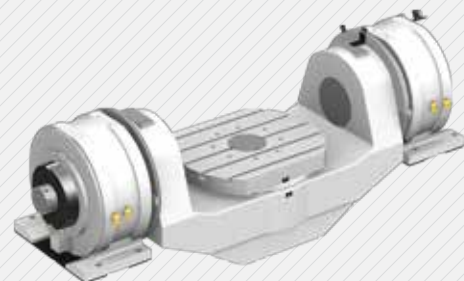
03



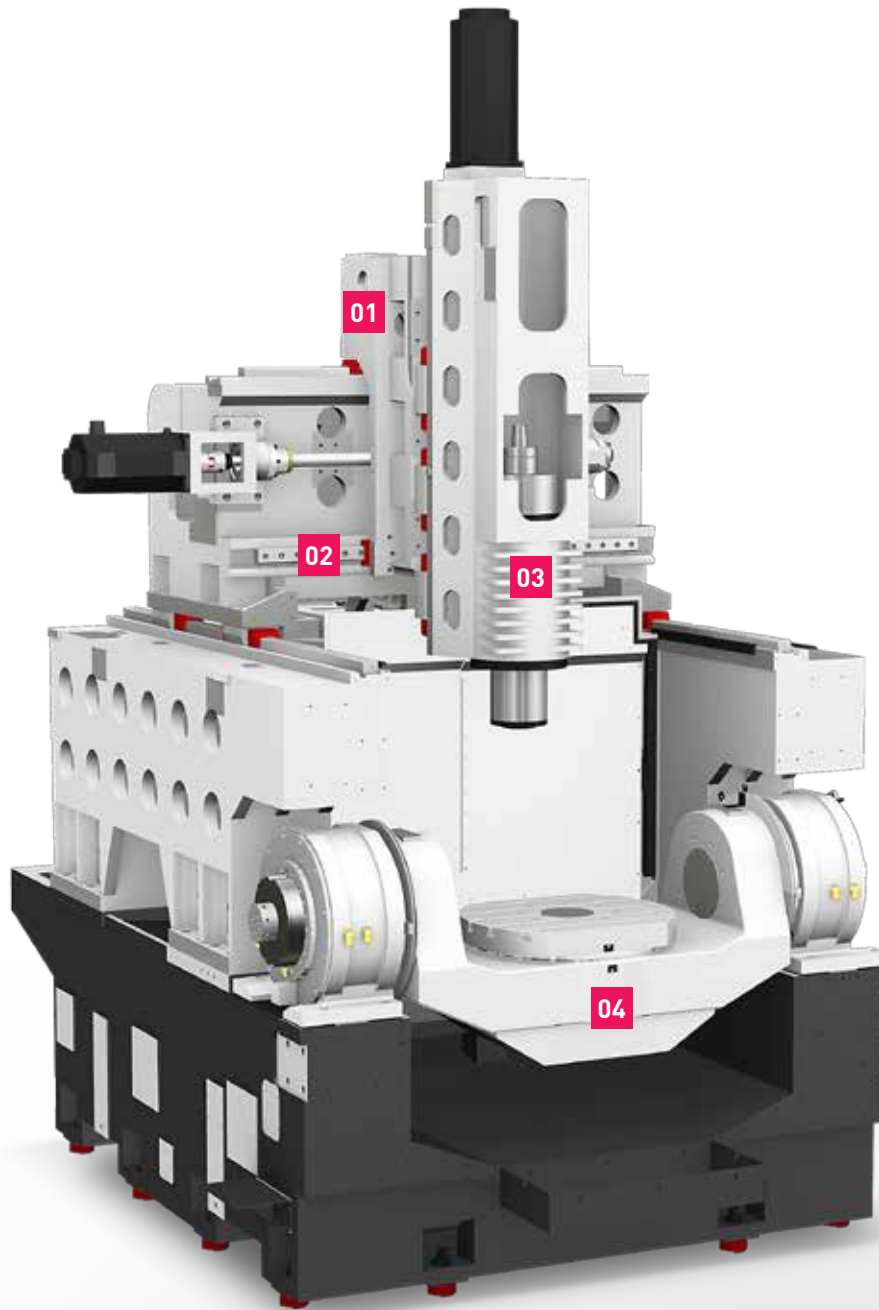
DDM Tilting Rotary Table

The Direct Drive Motor (DDM) provides superb productivity and quality of work compared to the previous gear drive method, increasing accuracy as well as speed.

04



Basic Structure



HYUNDAI WIA
MACHINE TOOL

HI-MOLD750/5A
Vertical Machining Center

06
+
07

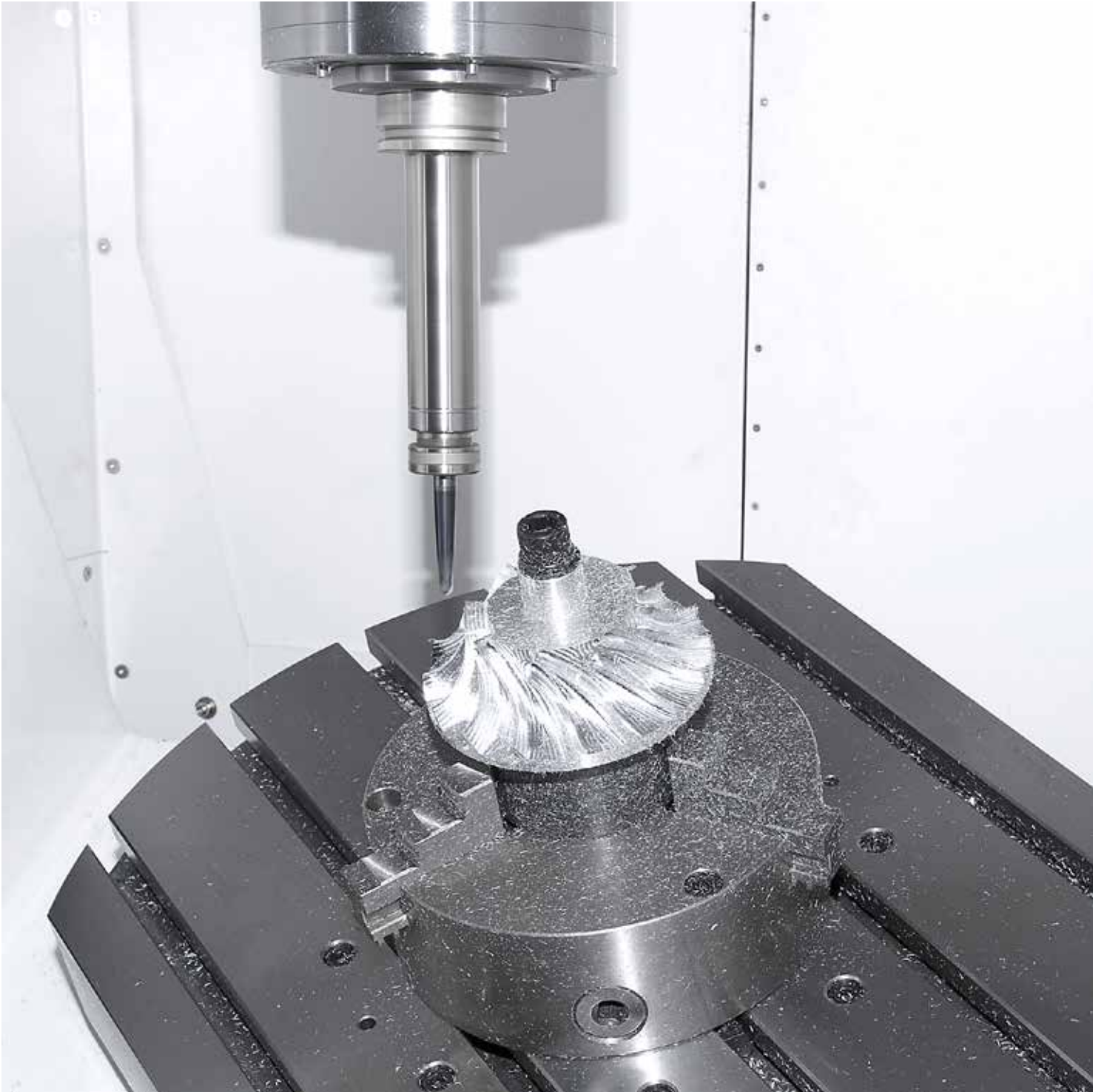
High Precision & High Speed Vertical Machining Center

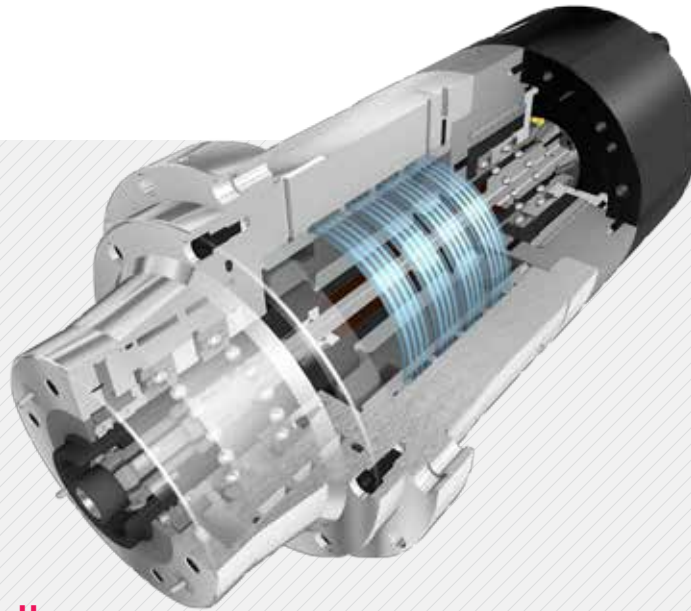
- ◎ **Rapid Traverse Rate** (X/Y/Z axis) : 50/50/50 m/min (1,968/1,968/1,968 ipm)
(A/C axis) : 50/60 rpm
- ◎ **Travel** (X/Y/Z/A/C axis) : 650/765/510 mm (25.6"/30.1"/20") / +30°~-120°/360°

02
Hi-MOLD
750/5A

High Precision Spindle

Long Lasting High Accuracy & Excellent Performance
Vertical Machining Center





Built-in Spindle

The built-in spindle is designed to minimize vibration and heat, as well as deliver rapid acc/deceleration. Stable precision is maintained even under high speed and heavy duty operations.

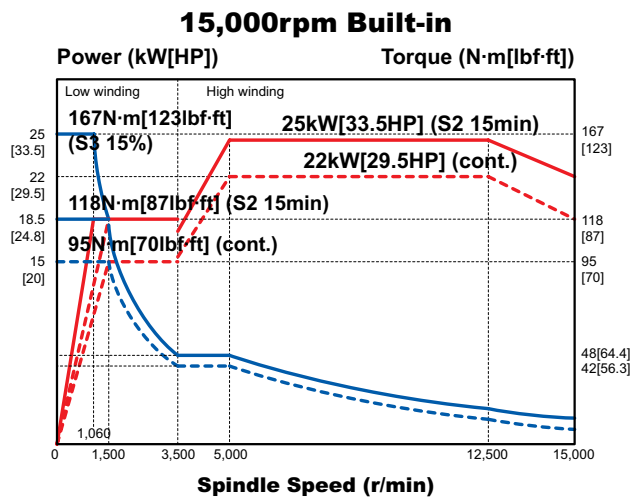
Spindle Cooling

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

HSK Tool Holder (HSK-A63)

The HSK spindle offers the fastest material removal rates, highest accuracy and rigidity.

It guarantees stability at high speed which is excellent for mold machining.



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
(290 psi / 435 psi)

03

Hi-MOLD
750/5A

Magazine & Table

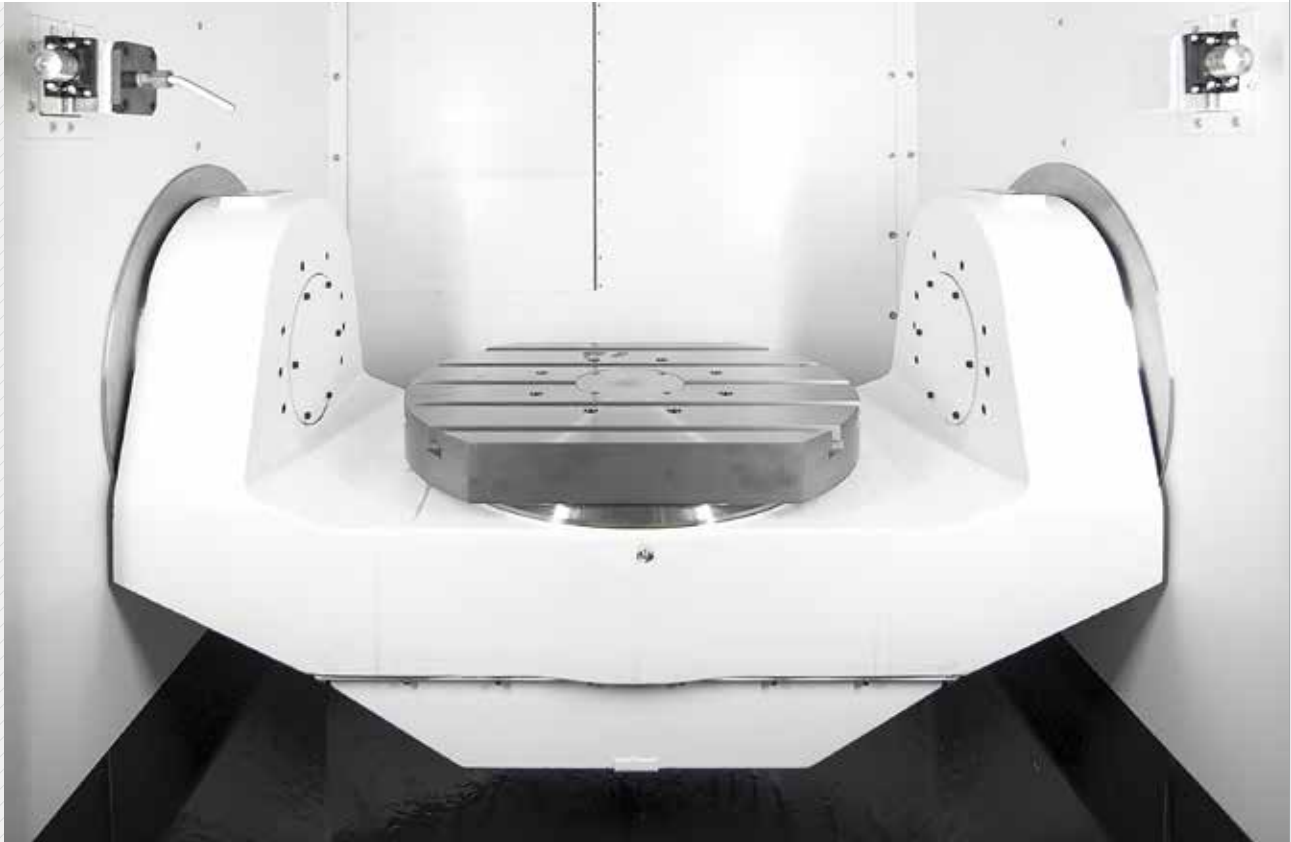
Long Lasting High Accuracy & Excellent Performance
Vertical Machining Center



Magazine & ATC

The tool magazine and machining area are completely separated by a shutter so that chip, coolant and dust particles can be blocked. This helps to maintain high precision and cleanliness. Also, the 30-pocket tool magazine is provided for increased machining flexibility and user convenience.

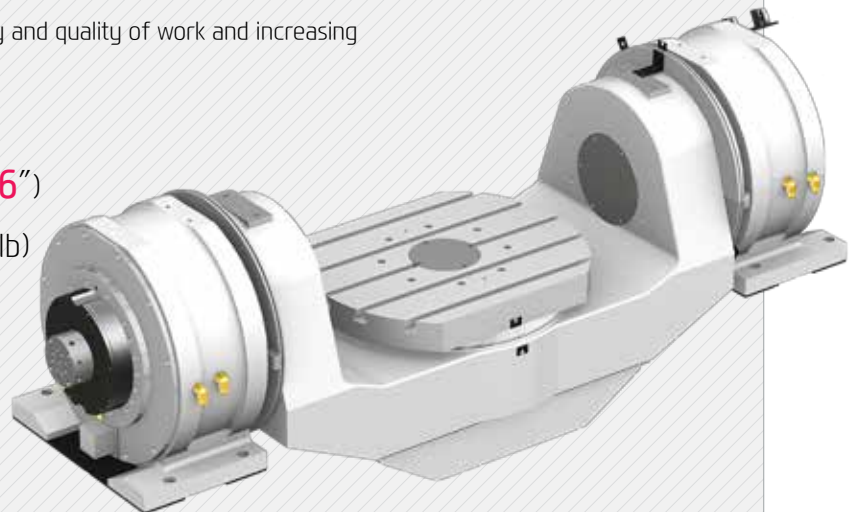
- ⦿ Number of Tools : **30** EA
- ⦿ Tool Change Time (T-T/C-C) : **1.2/4.5** sec
- ⦿ Tool Shank : **HSK-A63**
- ⦿ Max. Length of Tools : **300** mm (**11.8"**)
- ⦿ Max. Weight of Tools : **8** kg (**17.6** lb)
- ⦿ Max. Diameter of Tools/ (W.T/W.O) : **Ø90/Ø150** (**Ø3.5"/Ø5.9"**)



Direct Drive Motor (DDM) Tilting Rotary Table

Direct drive motor DDM provides superb productivity and quality of work and increasing accuracy as well as speed.

- ◎ Size : $\varnothing 630 \times 500$ mm ($\varnothing 24.8'' \times 19.6''$)
- ◎ Max. Load Capacity : 500 kg (1,102 lb)
- ◎ Slope Angle : $+30^\circ \sim -120^\circ$
- ◎ Rotation Angle : 360°
- ◎ Min. Indexing Angle : 0.001°



04

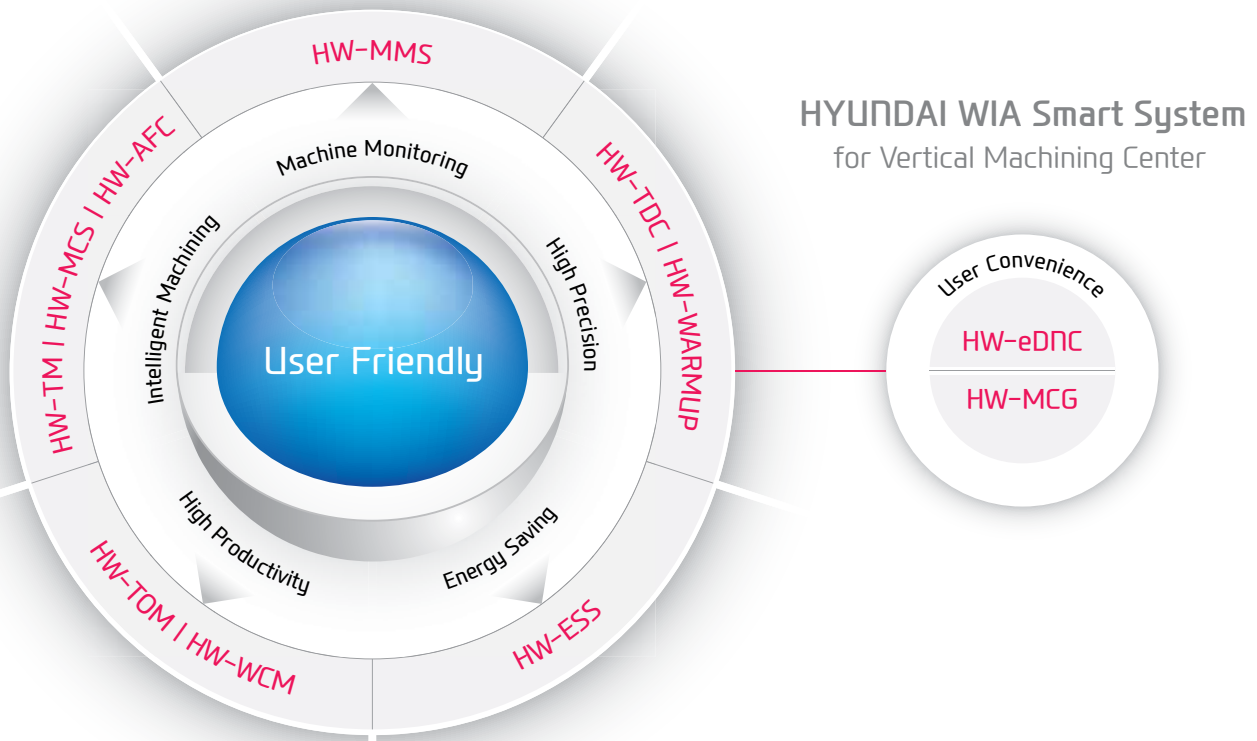
Hi-MOLD
750/5A

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-MMS
HYUNDAI WIA
Machine Monitoring System

This software is for remote control monitoring of equipment status (mobile, PC.) It checks and manages the state of multiple machines and the progress of processing on a real time basis.



HW-eDNC
HYUNDAI WIA ethernet
Direct Numerical Control

This software allows transmission of NC data between PC and a machine's CNC. The processing programs can be managed on the PC through the ethernet or serial communication.

HYUNDAI WIA Smart System



HW-MCG

HYUNDAI WIA
Machine Guidance

(FANUC)

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

(FANUC)

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



HW-TOM

HYUNDAI WIA
Tool Offset Measurement

(FANUC)

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



HW-WCM

HYUNDAI WIA Work
Coordinate Measurement

(FANUC)

User-friendly GUI software that measures work coordinates (H/W excluded)



HW-TM

HYUNDAI WIA
Tool Monitoring

(FANUC)

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



HW-MCS

HYUNDAI WIA
Machining Condition Selection

(FANUC)

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



HW-AFC

HYUNDAI WIA
Adaptive Feed Control

(FANUC)

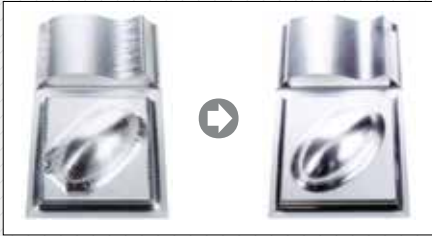
Software that controls the feed automatically to maintain a certain working load to extend tool life as well as productivity.

05

Hi-MOLD
750/5A

Mold Package

Powerful Mold Package,
HYUNDAI-WIA Mold All in One



HWM ALL-IN-ONE

To enhance mold machining, the "HWM ALL-IN-ONE" is provided as a standard feature for Hi-MOLD 750/5A.

This ensures accurate and high quality surface finishing and contouring.




Mold Package Specification

HWM ALL IN ONE		1 Package (FANUC)	2 Package (FANUC)	3 Package (FANUC)	4 Package (FANUC)
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		●	●	●	●
Data Server 1GB			●	●	●

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

Mold Package



- ◉ **High Speed Contouring Control (AICC II : 200 Block)**
Recognizes NC Data prior to the current processing phase
- ◉ **Optimal S/W (FANUC 31i-A Model)**
HW-MCS (Selectable Process Conditions)
HW-AFC (Adaptive Feed Control)
- ◉ **Automatic Power Off Device**



- ◉ **Main Spindle Cooling Device (8-channel)**
Maintains temperature on the main spindle from thermal displacement. (heat sensor)



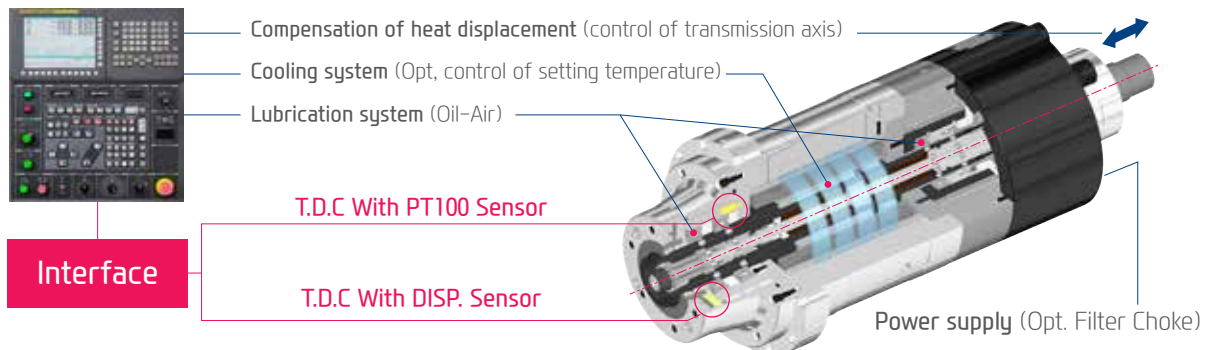
- ◉ **Cutting Air Blow**
Cutting air blow is provided for mold machining.



- ◉ **Auto Tool Measuring Device**
Detects and sets tool length, and attrition (Graphic User Interface included)

Thermal Displacement Compensation Device

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



n6

Hi-MOLD
750/5A

User Convenience

Various Devices for User Convenience



Measuring Device

Touch Sensor

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



Precision Device

Linear Scale

Linear scales can be applied when highly accurate positioning is required.



Environment Device

Oil Skimmer

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

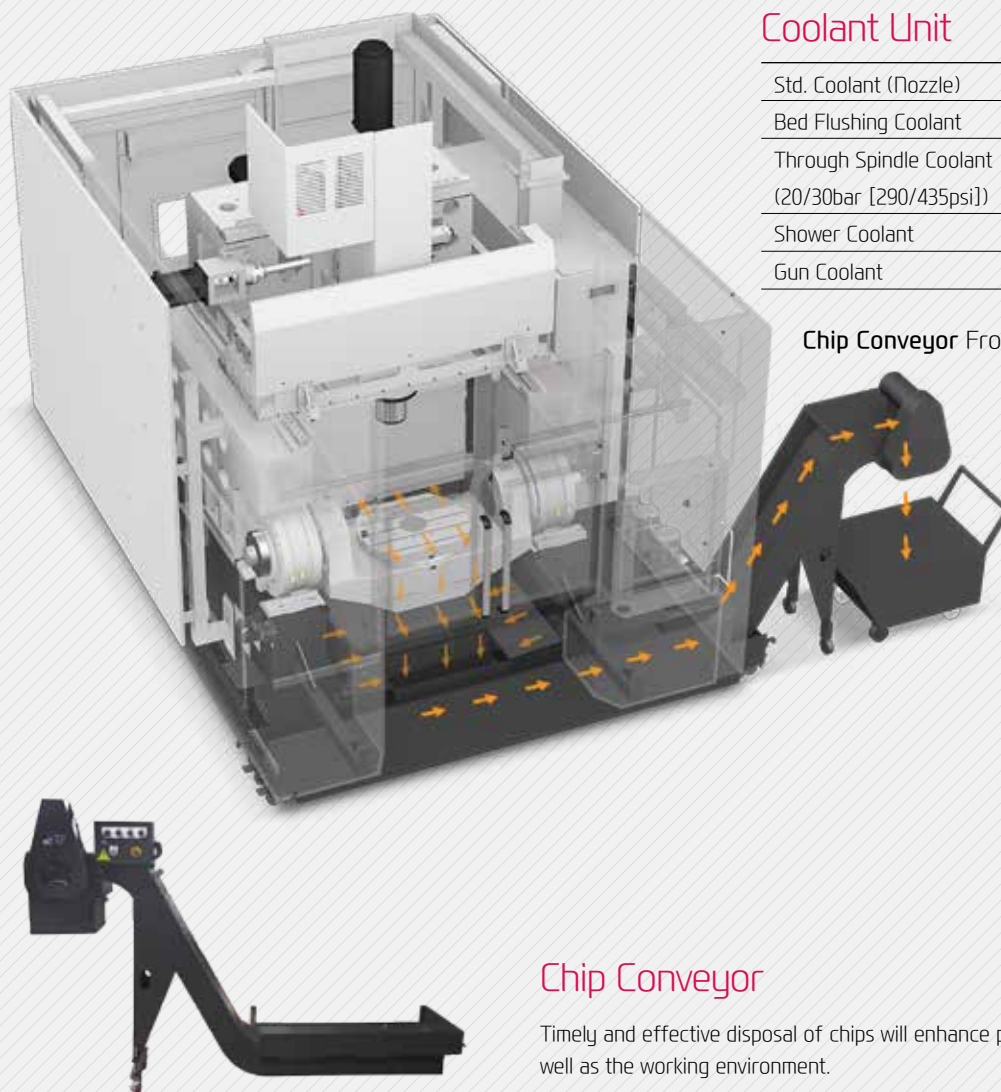
Mist Collector

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.



Optional

Chip Disposal Process



Coolant Unit

Std. Coolant (Nozzle)	Standard
Bed Flushing Coolant	Standard
Through Spindle Coolant (20/30bar [290/435psi])	Option
Shower Coolant	Option
Gun Coolant	Standard

Chip Conveyor Front (Right)

Chip Conveyor

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)**

SPECIFICATIONS

Standard & Optional

		HI-MOLD750/5A
Spindle		
15,000rpm(25/22kW)	Built-in	●
Spindle Cooling System		●
ATC		
ATC Extension	30	●
	40	☆
Tool Shank Type	HSK A63	●
	BT40	☆
U-Center	D'andrea	☆
	45°	☆
Stud Bolt Collet Change	60°	-
	90°	-
Table & Column		
APC	Rotary Turn	-
Tap Type Table		☆
T-Slot Table		●
NC Rotary Table(Gear)		○
NC Rotary Table(DDM)		●
High Column		-
Coolant System		
Std. Coolant (Nozzle)		●
Bed Flushing Coolant		●
	20bar (290 psi)	○
	30bar (435 psi),	○
Through Spindle Coolant*	20 ℓ (5.3 gal)	○
	70bar (1,015 psi),	○
	15 ℓ (4 gal)	○
Top Cover		●
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		☆
Power Coolant System (For Automation)		☆
Chip Disposal		
Coolant Tank	600 ℓ (158.5 gal)	●
Cabin Screw Chip Conveyor		-
Chip Conveyor	Hinge Right (Right)	○
(Tank Position/Chip Disposal)	Scraper	○
Special Chip Conveyor (Drum Filter)		☆
	Standard (180 ℓ [47.5 gal])	○
	Swing (200 ℓ [52.8 gal])	○
Chip Wagon	Large Swing (290 ℓ [76.6 gal])	○
	Large Size (330 ℓ [87.2 gal])	○
	Customized	☆
Safety Device		
Total Splash Guard		●
S/W		
Machine guidance (HW-MCG) : FANUC		☆
Tool Monitoring (HW-TM) : FANUC		○
DNC Software (HW-eDNC)		○
Spindle Heat Distortion Compensation (HW-TDC)		●
Spindle Warm up Function (HW-WARMUP)		●
Energy Saving System (HW-ESS) : FANUC		☆
Machine Monitoring System (HW-MMS)		☆
Tool Offset Measurement (HW-TOM) : FANUC		○
Work Coordinate Measurement (HW-WCM) : FANUC		○
Machining Condition Selection (HW-MCS) : FANUC		●
Adaptive Feed Control (HW-AFC) : FANUC		●

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

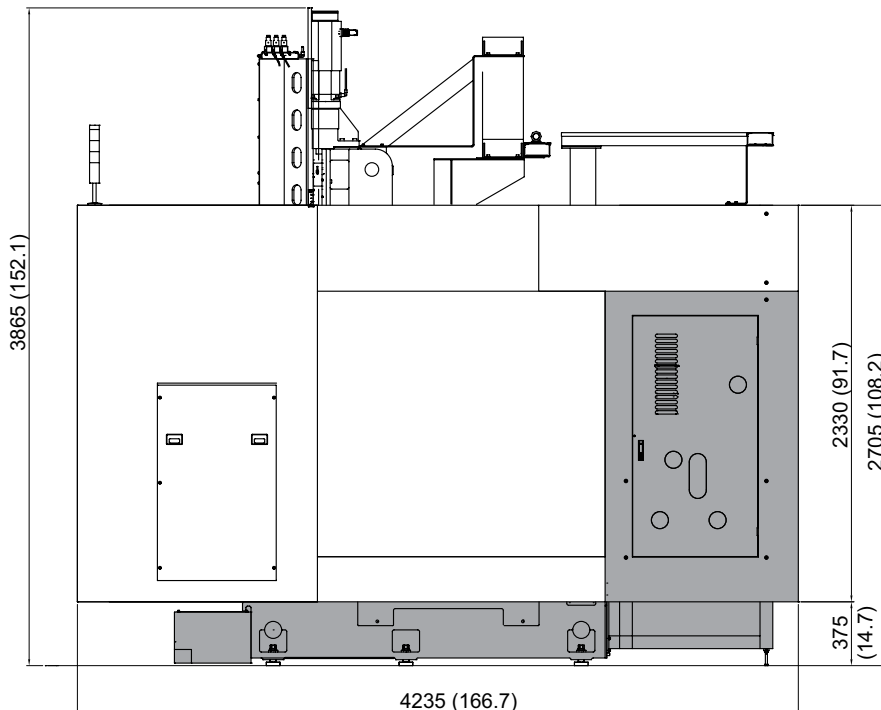
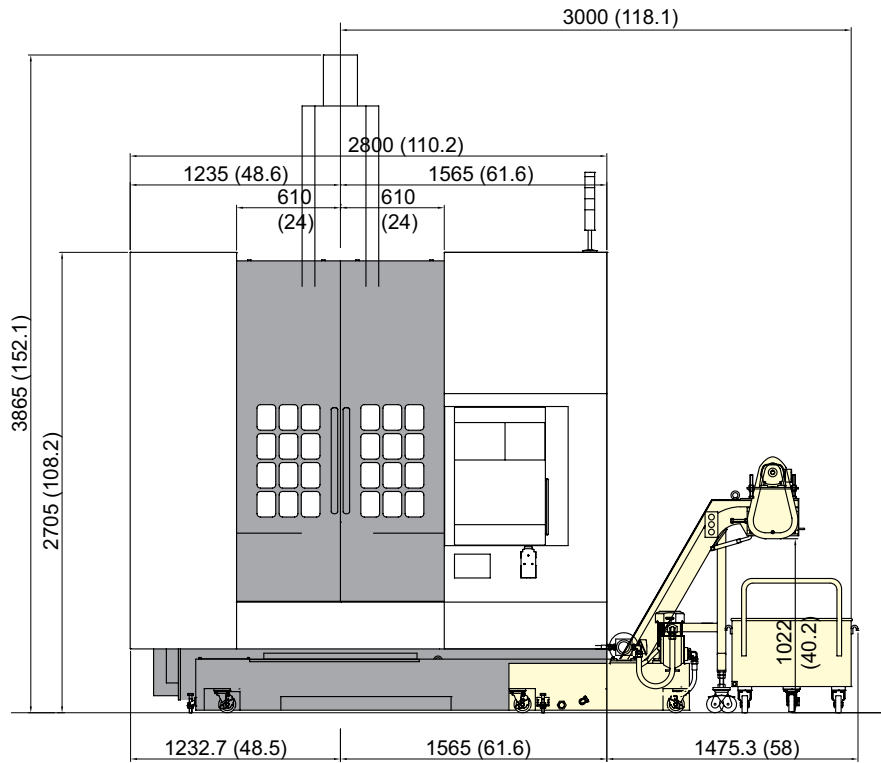
		HI-MOLD750/5A
ETC		
Tool Box		●
Customized Color	Need for Munsel No.	☆
CAD & CAM Software		☆
Electric Device		
Call Light	1 Color : ●	●
Call Light	3 Color : ● ● ●	○
Call Light & Buzzer	3 Color : ● ● ● B	○
Work Light		●
Electric Cabinet Light		○
Door Inter-Lock		●
Remote MPG		●
3 Axis MPG		○
Spindle Load Meter	Built-in	○
Spindle Speed Meter	Built-in	○
Work Counter	Digital	○
Total Counter	Digital	○
Tool Counter	Digital	○
Multi Tool Counter	6ea	○
	9ea	○
Electric Circuit Breaker		○
AVR (Auto Voltage Regulator)		☆
Transformer	70kVA	○
Flash Memory Card		○
Auto Power Off		●
Back up Module for Black out		○
Measuring Device		
Air Zero	TACO	☆
	SMC	☆
Work Measuring Device		○
TLM	Touch	○
(Marposs/Renishaw/Bloom)	Laser	●
Tool Broken Detective Device		☆
Linear Scale	X/Y/Z Axis	○
Rotary Scale	A/C Axis	●
Coolant Level Sensor (Only for Chip Conveyor)		☆
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 Operation Pannel		☆
External M code 4ea		○
Automation Interface		☆
I/O Extension (In & Out)	16Contact	○
	32Contact	○
Hyd. Device		
Std. Hyd. Unit	70bar (1,015 psi) / 60 ℓ (15.8 gal)	●
Center Type		○
Hyd. Supply Unit (Upper)	2X3(6port)	○
	50bar	☆
Hyd. Unit for Fixture	70bar	-
	100bar	-
	Customized	☆

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

SPECIFICATIONS

External Dimensions

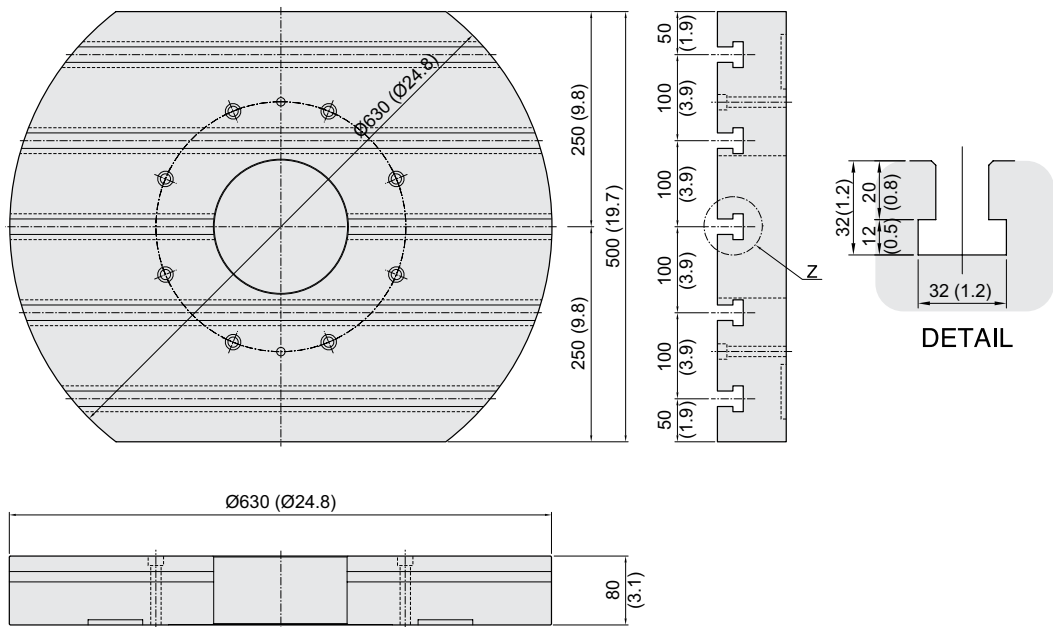
unit : mm(in)



SPECIFICATIONS

Table Dimensions

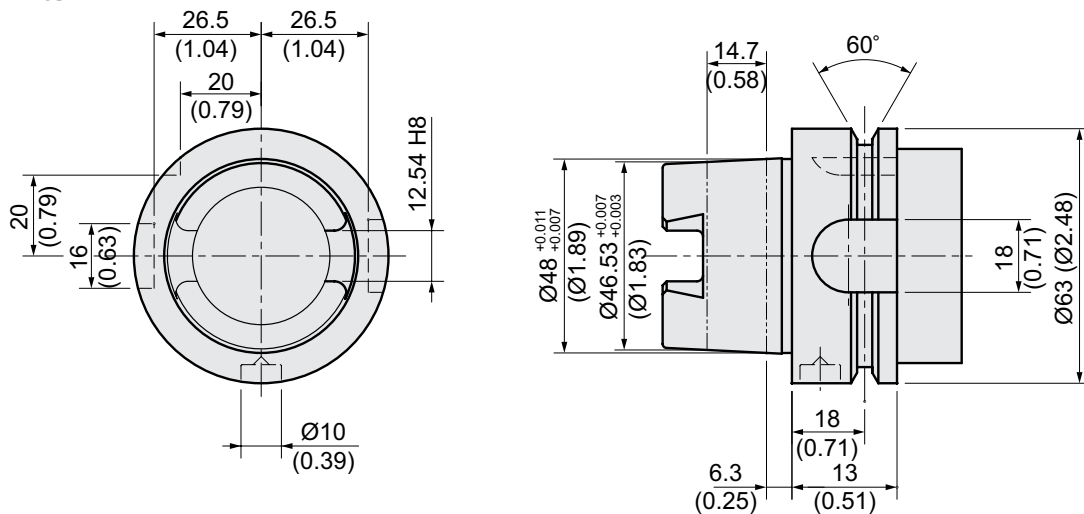
unit : mm(in)



Tool Shank

unit : mm(in)

HSK-A63



SPECIFICATIONS

Specifications

[] : Option

ITEM		Hi-MOLD750/5A		
TABLE	Table Size	mm(in)	Ø630x500 (Ø24.8"x19.7")	
	Maximum Load Capacity	kg(lb)	500 (1,102)	
	Table Change Time	sec	-	
	Change Method	-	-	
	Table Driving Method	-	-	
SPINDLE	Spindle Taper	-	HSK-A63	
	Spindle RPM	r/min	15,000	
	Spindle Power Output (Max./Cont.)	kW(HP)	25/22 (33/29)	
	Spindle Torque (Max./Cont.)	N·m(lbf·ft)	167/95 (121.7/70)	
	Spindle Driving Method	-	BUILT-IN	
FEED	Travel (X/Y/Z)	X/Y/Z Axis	mm(in)	650(25.6")/765(30.1") (+350ATC)/510(20")
		A/C Axis	deg	150°(+30°~-120°)/360°
	Distance from Table Surface to SP	mm(in)	160~730 (6.3"~28.7")	
	Distance from Column to SP. center	mm(in)	-	
	Rapid Traverse Rate	X/Y/Z Axis	m/min(ipm)	50/50/50 (1,968/1,968/1,968)
		A/C Axis	r/min	50/60(DDM), 40/50(Gear)
	Slide Type	-	ROLLER GUIDE	
ATC	Number of Tools	ea	30	
	Tool Shank	-	HSK-A63	
	Max. Tool Dia.(W/T Adjacent Tool)	mm(in)	Ø90/Ø150 (3.5"/6")	
	Max. Tool Length	mm(in)	300 (11.8")	
	Max. Tool Weight	kg(lb)	8 (17.6)	
	Tool Selection Method	-	Fixed Address	
	Tool Change Time	T-T	sec	1.2
C-C		sec	4.5	
TANK CAPACITY	Coolant Tank	ℓ (gal)	600 (158.5)	
	Lubricating Tank	ℓ (gal)	0.7 (0.2)	
	Hydraulic Tank	ℓ (gal)	60 (15.8)	
POWER SUPPLY	Air Consumption (0.5MPa)	ℓ /min	500	
	Electric Power Supply	KVA	63	
	Thickness of Power Cable	sq	Over 50	
	Voltage	V/Hz	220/60 (200/50)	
MACHINE	Floor Space (L×W)	mm(in)	3,380x4,205 (133"x165.5")	
	Height	mm(in)	3,685 (145")	
	Weight	kg(lb)	18,000 (39,683)	
PC	Controller	-	FANUC 31i-A5	

CONTROLLER

FANUC 31i-A5

Axis control / Display unit

Controlled axis	5 axis (X, Y, Z, A, C)
Simultaneous controllable axis	5 axis (X, Y, Z, A, C)
Least input increment	X, Y, Z axis : 0.001 mm (0.0001") A, C axis : 0.001°
Least command increment	X, Y, Z axis : 0.001 mm (0.0001") A, C axis : 0.001°
Inch / Metric conversion	G20 / G21
Interlock	Each axis / All axis
Machine lock	All axis
Stored stroke check 1	
Mirror image	
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

DNC operation by the memory card	
Program restart	
Program check function	Dry run, program check
Single block	

Feed functions

Manual jog feed	Rapid, Jog, handle
Manual handle feed-rate	x1, x10, x100
Feedrate override	0~200% (10% Unit)
Jog feed	0~5,000mm/min (197ipm)
Rapid traverse override	F1, F25%, F50%, F100%
Override cancel	
Rapid traverse bell-shaped acceleration/ deceleration	
Auto corner override	

Program input & Interpolation functions

Interpolation Function	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	
Manual reference point return	
Reference point return	G28
Reference point return check	G27
2nd 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 / Sequence number	O4 / P8 digit
Absolute/incremental command	G90 / G91
Plane selection	G17, G18, G19
Work coordinate preset	G52~G59
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	
Skip function	G31
Automatic coordinate system setting	
Coordinate system rotation	G68, G69
Programmable mirror image	G50.1, G51.1
Bidirectional pitch error compensation	
AI contour control(AICC) II	200 Block

Sub / Spindle functions

Miscellaneous function	M3 digit
Spindle speed command	S5 digits, binary output
Spindle speed override	50% ~ 120% (10% Unit)
Spindle orientation	
Rigid tapping	

Tool functions / Tool compensation

Tool function	Max. T8 digits
Cutter compensation C	G40~G42
Tool length compensation	G43, G44, G49
Tool length measurement	Z axis INPUT C
Tool offset pairs	64 pair
Tool life management	

Data input / Output & Editing functions

Input/output interface	RS232C, Memory card
Embed Ethernet	100 Mbps
Part program storage length	128 Kbyte (320m)
Registered programs	250 EA
Memory lock	
Back ground editing	
Extended part program editing	Copy, move, change of NC program

Setting, display, diagnosis

Self-diagnosis function	
History display	Alarm & operator message
Run hour/Parts count display	
Actual cutting feedrate display	
Graphic display	
Spindle/Servo setting screen	
Multi-language display	Selection of 5 optional language
Screen Saver	Screen saver
Auto Data Backup	

Option

Additional work coordinate system	G54.1 P1~P48 (48 pair)
Additional custom micro change	G54.1 P1~P300 (300 pair)
Work coordinate Command	#100 ~ #199, #500 ~ #999
Work coordinate Interpolation	G12.1, G13.1
Helical interpolation	G07.1
Single direction positioning	G60
Scaling	
Manual handle interupt	
Additional optional Blockskip	9 EA
AI contour control(AICC) 1	200 Block/Select processing conditions/ Auto power off
AI contour control(AICC) 2	200 Block/Select processing conditions/ data server/Auto power off
AI contour control(AICC) 3	600 Block/Select processing conditions/ data server/Auto power off
AI contour control(AICC) 4	1000 Block/Select processing conditions/data server/Auto power off
Tool offset number	200 pair
Program registration number	Max. 1000 EA *(Note 1)
Part program storage length	256Kbyte(640m) ~ 2Mbyte(5120m)
Data server	1GB
High speed ethernet	100 Mbps
Manual Guide i	Interactive automatic program
Dynamic graphic display	
Tool load monitoring function	HWTM (Mounted)

*Note 1) The program registration number may vary depending on the part program storage capacity.

GLOBAL NETWORK



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Hi-MOLD750/5A Movie