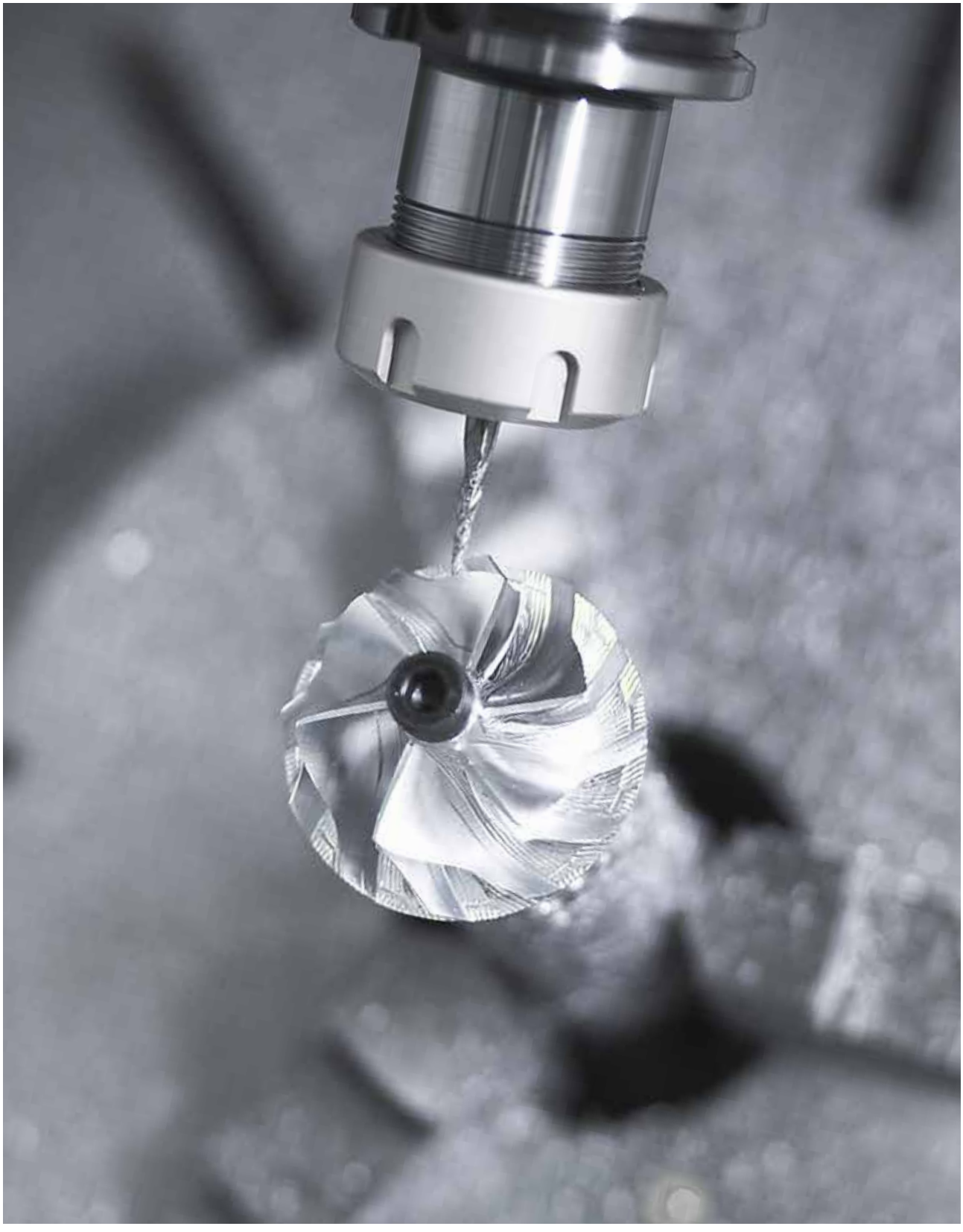
Hi-MOLD Series

HYUNDAI WIA Vertical Machining Center for Mold Machining

HYUNDAI WIA

Technical Leader

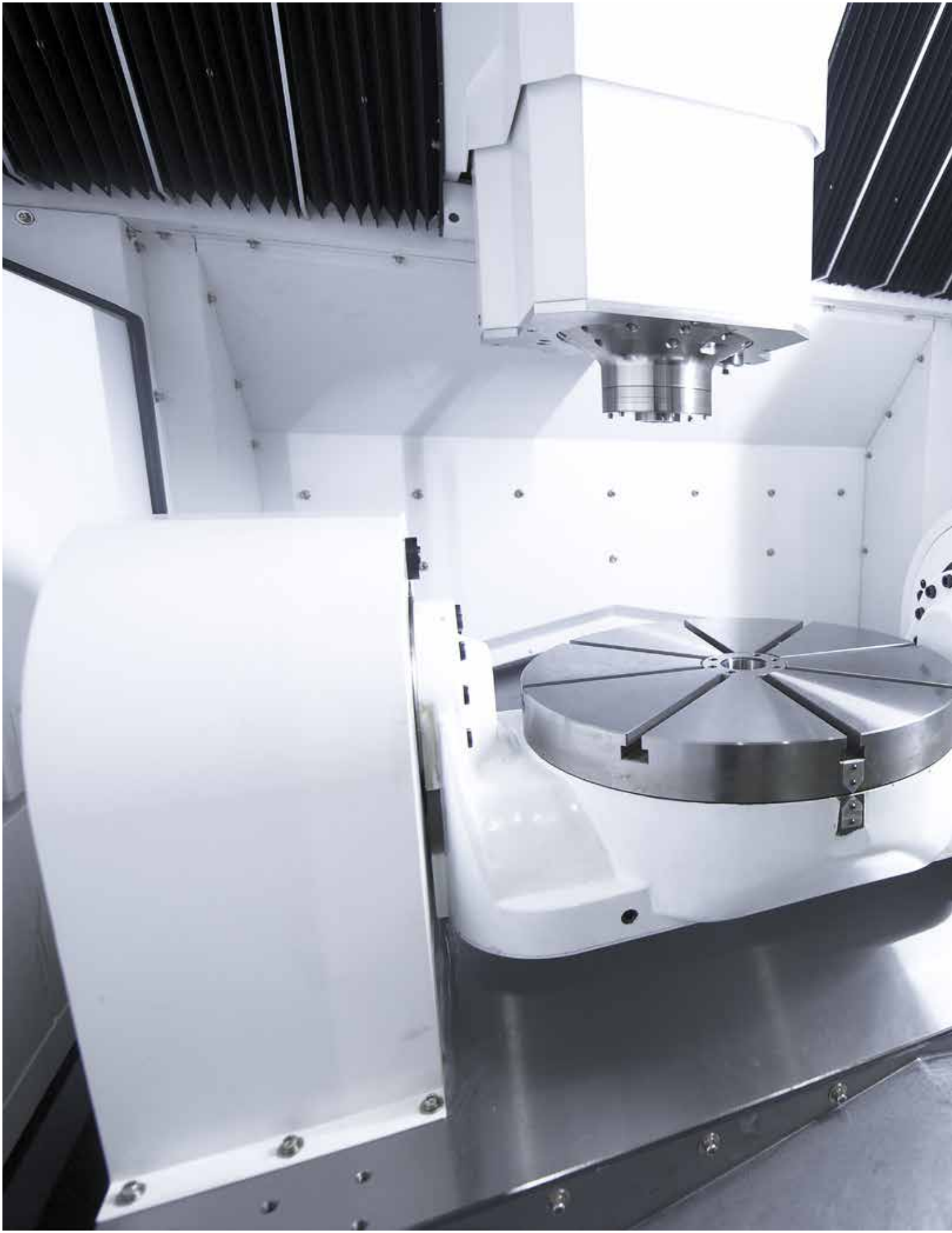
The Vertical Machining Center Hi-MOLD Series designed by Hyundai WIA with years of expertise and the latest technology, ensures performance requirements of the mold industry.



The Best Choice for High Quality Mold Machining

Hi-MOLD Series

- Highly reliable bridge type structure
- Highly accurate main spindles with ultra precision angular contact bearings
- High speed built-in main spindle(40,000rpm) for the utmost quality of molds (OPTION)
- Built-in 5-axis table to satisfy various processing needs (Hi-MOLD560/5A)
- Hyundai WIA mold package delivers optimal processing of mold parts
- Latest SIEMENS 840D Controller for various software needs



Super Quality Mold Machining

Hi- MOLD boasts a super stable bridge Type design to provide the highest quality of mold machining, and the ultra fast main spindle can operate up to 40,000rpm.

In addition, Hi-MOLD560/5A allows complex mold machining thanks to the built-in 5-axis table.

Hi-MOLD450

[ ] : Option

Table Size (L×W)	mm(in)	850×500 (33.5″×19.7″)
Max. Load Capacity	kg(lb)	300 (661)
Spindle Taper	-	HSK-A63 [HSK-E40]
Spindle Speed	rpm	24,000 [40,000]
Spindle Output	kW(HP)	33/25 (44.3/33.5) [26/18 (34.9/24.1)]
No. of Tools	EA	24
Travel(X/Y/Z)	mm(in)	600/450/450 (23.6″/17.7″/17.7″)
Rapid Traverse Rate	m/min(ipm)	50/50/50 (1,969/1,969/1,969)

Hi-MOLD560

[ ] : Option

Table Size (L×W)	mm(in)	1,250×600 (49.2″×23.6″)
Max. Load Capacity	kg(lb)	800 (1,764)
Spindle Taper	-	HSK-A63 [HSK-E40]
Spindle Speed	rpm	24,000 [40,000]
Spindle Output	kW(HP)	33/25 (44.3/33.5) [26/18 (34.9/24.1)]
No. of Tools	EA	24
Travel(X/Y/Z)	mm(in)	1,000/560/450 (39.4″/22″/17.7″)
Rapid Traverse Rate	m/min(ipm)	50/50/50 (1,969/1,969/1,969)

Hi-MOLD560/5A

[ ] : Option

Table Size (L×H)	mm(in)	Ø500x270 (Ø19.7″x10.6″)
Max. Load Capacity	kg(lb)	250 (551)
Spindle Taper	-	HSK-A63 [HSK-E40]
Spindle Speed	rpm	24,000 [40,000]
Spindle Output	kW(HP)	33/25 (44.3/33.5) [26/18 (34.9/24.1)]
No. of Tools	EA	24
Travel(X/Y/Z)	mm(in)	1,000/560/450 (39.4″/22″/17.7″)
Rapid Traverse Rate	m/min(ipm)	50/50/50 (1,969/1,969/1,969)

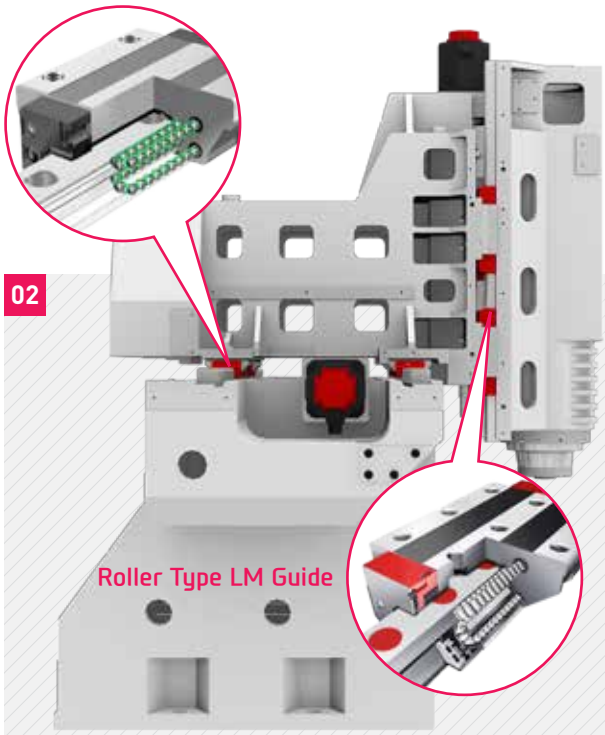
01

Hi-MOLD Series

Hi-MOLD450/560

Super Quality & Productivity
Vertical Machining Center

Ball Type LM Guide



01

Wall Type Column Structure

The Hi-MOLD Series are built upon a wall type frame.
The biggest benefit of the bridge type machining center is the increase of rigidity and the decrease of heat generation.
Hence, it retains accuracy and repeatability at the highest levels.

02

Slideway

Each axis of the Hi-MOLD Series features slideways optimized to the model.

In order to allow for flexible axis movement, ball type LM guides on the X and Y axis as well as roller type guide on the Z axis were implemented within the headstock. This makes the axis travel super fast, reducing idle time tremendously.

Ball Screw

All axes are driven by high precision double anchored ballscrews. This provides outstanding positioning and repeatability with virtually no thermal growth. All ballscrews are connected directly to the servo drive motors, to eliminate backlash.

03

Built-in Spindle

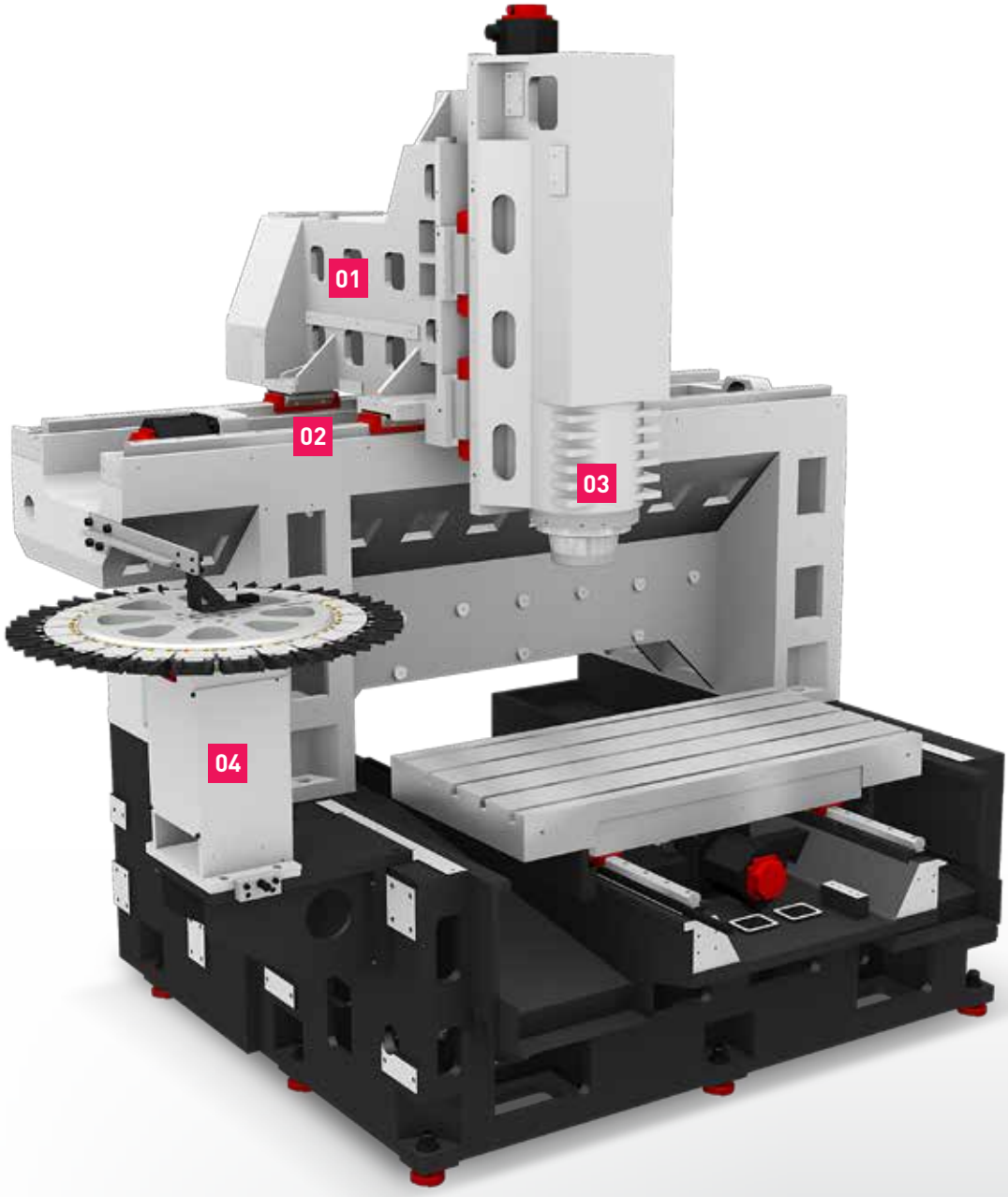
Maximum spindle speed up to 24,000rpm(Opt: 40,000rpm) is possible due to the installation of ultra precision Angular Ball Bearings.

04

Magazine

The tool magazine holds 24 tools as standard.
Tools are stored away from the cutting area to ensure them to stay clean at all times.

⊙ No. of Tools : 24 EA



High Precision & High Speed Vertical Machining Center

- **Spindle Speed** : 24,000 [Opt. 40,000] rpm
- **Rapid Traverse Rate** (X/Y/Z axis) : 50/50/50 m/min (1,969/1,969/1,969 ipm)
- **Travel** (X/Y/Z axis) Hi-MOLD450 : 600/450/450 mm (23.6″/17.7″/17.7″)
  Hi-MOLD560 : 1,000/560/450 mm (39.3″/22″/17.7″)

02
Hi-MOLD
Series

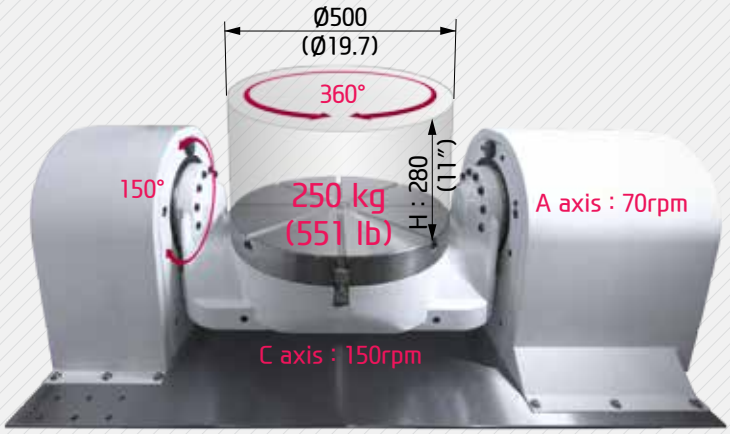
Hi-MOLD560/5A

Super Quality & Productivity
5 Axis Vertical Machining Center

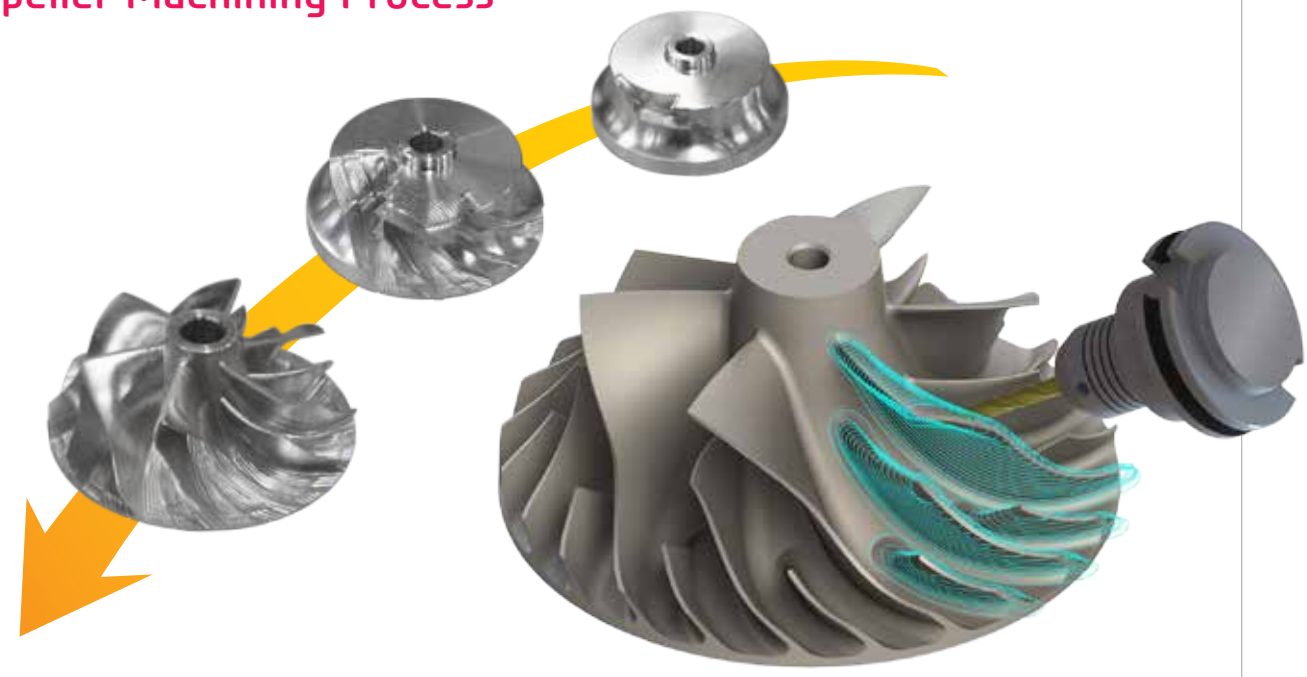
Built-in Rotate Table

The built-in rotary table allows users to produce a wide range of complicated work pieces. The 'C' axis has full 360° rotation and the 'A' axis has 150° rotation. It is possible to clamp each axis for extra rigidity and accuracy when machining.

- **Table Size** : Ø500 mm (Ø19.7″)
- **Max. Load Capacity** : 250 kg (551 lb)
- **Max. Number of Rotation**
  A-axis : 70 rpm, C-axis : 150 rpm
- **Tilting Angle** : +30° ~ -120°
- **Rotation Angle** : 360°
- **Min. Directive Angle** : 0.001°



Impeller Machining Process



n3
Hi-MOLD
Series

High Precision Spindle

Long Lasting High Accuracy & Excellent Performance
Vertical Machining Center

Built-In Spindle

The built-in Spindle, designed with Angular Contact Bearings at front and back, can rotate at 24,000rpm. Also, high speed and high precision machining are possible with its rapid acceleration/deceleration.

Especially, it reduces noise and vibration generated by high speed cutting, and minimizes thermal displacement to enable stable machining.

Spindle Cooling

Spindle temperatures are controlled by the use of an oil chiller. This ensures constant spindle temperature and minimizes thermal displacement leading to stable machining.

40,000rpm High Speed Spindle OPTION

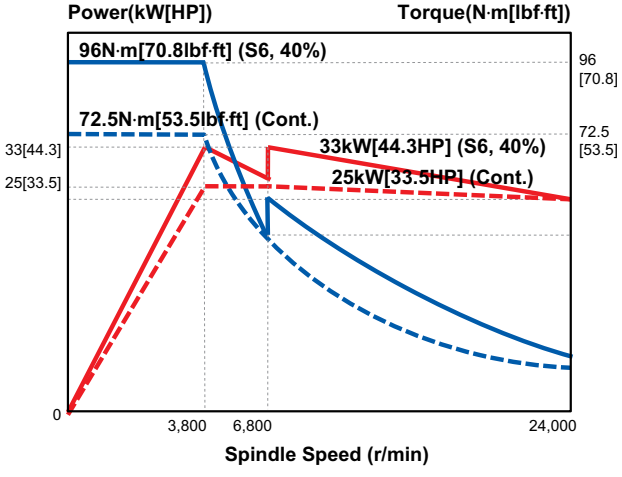
For the Hi-MOLD Series, it is possible to upgrade the spindle to 40,000 rpm. This high speed spindle provides upgraded performance.

Through Spindle Coolant OPTION

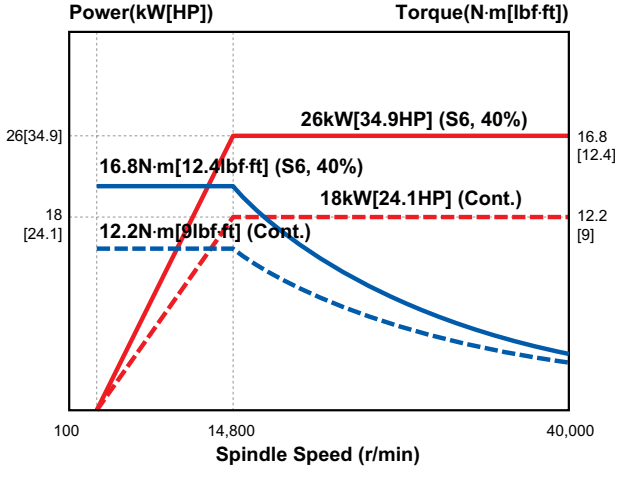
Through Spindle Coolant is exceedingly useful when drilling deep holes. It helps increase the lifetime of the tool, while decreasing cycle time.

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

24,000rpm



40,000rpm OPTION

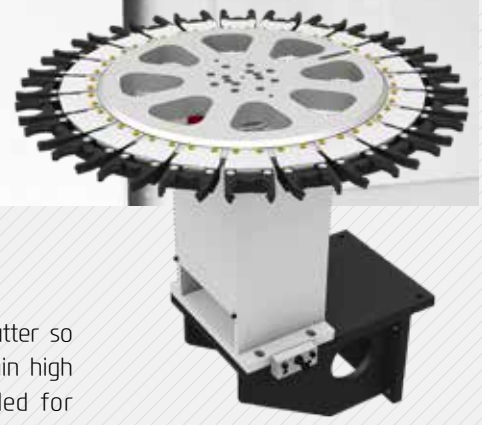


04

Hi-MOLD Series

Magazine & Table

Long Lasting High Accuracy & Excellent Performance
Vertical Machining Center



MAGAZINE

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, a 24-pockets tool magazine is provided for machining flexibility and user convenience.

- Number of Tools : 24 EA
- Max. Tool Length : 300 mm (11.8")
- Tool Change Time (T-T/C-C) : 2.6/5.5 sec
- Max. Weight of Tools 24,000rpm : 8 kg (17.6 lb) 40,000rpm : 1.5 kg (3.3 lb)
- Max. Tool Dia. (W.T/W.O)
  24,000rpm : Ø100/Ø140 (Ø3.9/Ø5.5) 40,000rpm : Ø70/Ø140 (Ø2.7/Ø5.5)

HSK Tool Holder

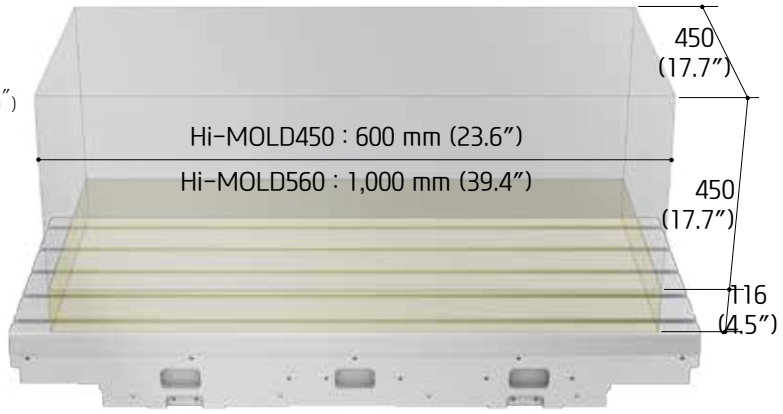
The HSK spindle offers the fastest material removal rates, highest accuracy and rigidity.
It guarantees stability at high speed which is excellent for mold machining.

HSK-A63 (24,000rpm)	HSK-E40 (40,000rpm)
	

Table Machining Area (Hi-MOLD450/560)

Compared to competitive machines, the Hi-Mold Series has a large work envelop making setup and use easy and convenient for the operator.

- **Table Size** (L x W)
  - Hi-MOLD450 : 850/500 mm (33.5″/19.7″)
  - Hi-MOLD560 : 1,250/600 mm (49.2″/23.6″)
- **Table Load Capacity**
  - Hi-MOLD450 : 300 kg (661 lb)
  - Hi-MOLD560 : 800 kg (1,764 lb)



05

Hi-MOLD
Series

SIEMENS Controller

The Powerful CNC platform for Machine Tools

SIEMENS

DIFFERENTIATED CAPABILITIES, INTEGRATED ENGINEERING PERFECTLY INTERLINKED

SIEMENS 840D sl Milling is the latest generation controller, with the capability of running up to 5 spindles on one machine. It is designed for horizontal/vertical all-purpose equipment.

The powerful 80-bit controller reduces processing time and increases productivity. It supports the preparation of a variety of programs and setup functions. It is easy to handle.

SIEMENS Technology

Shop Mill

- Dialogue-type programming, simple and convenient
- Effective specifications for small quantity batch production
- Step-by-step operation possible without knowledge of the DIN/ISO code

3D Simulation

- 3D confirmation of the completed processing configuration of the NC program is possible.
- Offers standards for 2D simulation.
- Possible to confirm the simulation of the NC program during processing.

Easy Screen

- Create an easy-to-screen
- Insert text and pictures support
- Max. 5-screen configuration
- NC variables and PLC interface with read/write support

SIEMENS MDynamics

SIEMENS MDynamics is required for a variety of CNC mold processing software solutions which is combined into one package achieving the highest processing rates

ISO Code Programming

If the ISO Dialect (G291) is ordered, JIS-based G-code programs can be used. (Standard)

06

Hi-MOLD Series

Mold Package

OPTION

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 Series machines.

This ensures accurate and high quality surface finishing and contouring.

SIEMENS 840D sl

❶ Mdynamic (High Speed/ High Ridigity Function)

❷ Automatic Power Suppression Unit

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

❹ Cutting Air Blow
Cutting air blow is provided for mold machining

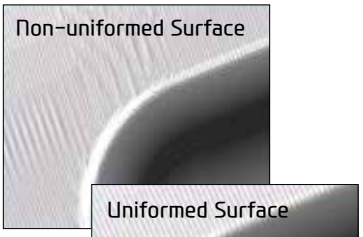
❺ Contact Probe(RENISHAW TS27R)
Detects and sets tool length, and attrition (Graphic User Interface included)

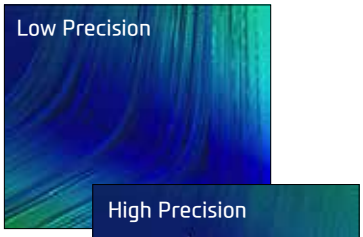
SIEMENS

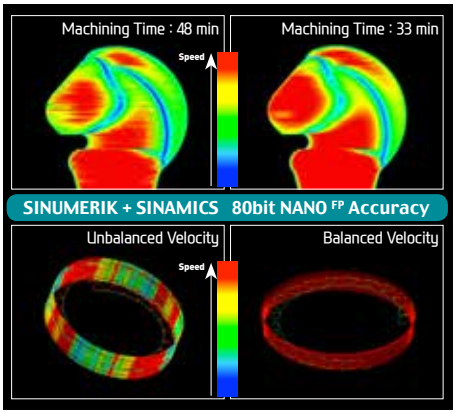
MDynamics 3+5-Axis Package

- Shop Mill
- Remaining material sensing
- Manufacturing form pocket and cutting
- 3D simulation 1 (assembled parts)
- Real-time Simulation
- Advance Surface
- Spline Interpolation
- Transmitting and Circumferential Shift
- Measurement Cycle
- Additional HMI Memory on CF Card
- 5-axis Processing Package
- 3D Tool Radius Compensation
- Coordinate System Measuring

Advanced Surface







- Advanced Surface software for high speed, high accuracy mold processing
- 80-bit floating-point calculation enable to calculate numbers less than a nanometer
- A brand new filter for speed and acceleration control - Improves upon the problems of intensity of illumination due to irregular CAM data
- Standard jerk-restriction function to ease deceleration impact - Minimized vibration and high-speed deceleration
- Standard feed-forward function for speed control - Improves contouring accuracy by correcting the following error before setting point output

07 User Convenience

OPTION

Hi-MOLD Series

Various Devices for User Convenience

Measuring Device

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 tool attrition and detect broken tools.

Precision Device

Linear Scale

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

Hydraulic Device

Hydraulic Supply Unit

Instead of the standard hydraulic supply unit, an optional fixture unit can bring the pressure up to 70 bar (1,015 psi), maximizing the clamping force on the fixture.

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.

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)**

Coolant Unit

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

Bed Flusing Coolant

Coolant Nozzle **(Standard)**

Spindle Coolant Nozzle

The Hi-MOLD Series also features 6 coolant nozzles on main spindle as standard to allow direction control, which improves precision of processing by adequate supplying of cutting oil.

SPECIFICATIONS

Hi-MOLD Series Standard & Optional

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

Spindle		450	560	560/5A
24,000rpm (33/25kW [44.3/33.5HP])	Bulit-in	●	●	●
40,000rpm (26/18kW [34.9/24.1HP])	Bulit-in	○	○	○
주축냉각장치		●	●	●
ATC				
ATC Extension	24	●	●	●
Tool Shank Type	24K : HSK A63	●	●	●
	40K : HSK E40	●	●	●
U-Center	D'andrea	–	–	–
Table & Column				
APC	Rotary Turn	–	–	–
Tap Type Table		–	–	–
T-Slot Table		●	●	●
NCRotary Table		–	–	●
High Column	180mm (7")	○	○	–
Coolant System				
Std. Coolant (Nozzle)		●	●	●
Bed Flushing Coolant		●	●	●
Through spindle coolant*	20bar (290 psi)	○	○	○
	30bar (435 psi), 20 ℓ (5.3 gal)	○	○	○
	70bar (1,015 psi), 15 ℓ (4 gal)	○	○	○
	70bar (1,015 psi), 30 ℓ (7.9 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	350 ℓ (92.5 gal)	●	–	–
	450 ℓ (118.9 gal)	–	●	●
Cabin Screw Chip Conveyor		–	–	–
Chip Conveyor (Hinge/Scraper)	Left(Left)	○	○	○
	Left(Rear)	–	–	–
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	☆	☆	☆
Safety Device				
X Axis Javara Cover (TOP)		○	○	○
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)		–	–	–
Machine Monitoring System (HW-MMS)		○	○	○
Tool Offset Measurement (HW-TOM)		–	–	–
Machining Condition Selection (HW-MCS)		●	●	●
Adaptive Feed Control (HW-AFC)		–	–	–
Conversational Program (HW-DPRO)		○	○	○
Electric Device		450	560	560/5A
Call Light	1 Color : ■	●	●	●
Call Light	2 Color : ■ ■	○	○	○
Call Light	3 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	○	○	○
Multi Tool Counter	6 EA	○	○	○
	9 EA	○	○	○
Electric Circuit Breaker		○	○	○
AVR (Auto Voltage Regulator)		☆	☆	☆
Transformer	220V : 50kVA	●	●	–
	220V : 60kVA	–	–	●
	400V : 25kVA	●	●	●
Auto Power Off		●	●	●
Back up Module for Black out		–	–	–
Measuring Device				
Air Zero	TACO	○	○	○
	SMC	○	○	○
Work Measuring Device		○	○	○
TLM (Marposs/Renishaw/Blum)	Touch	●	●	●
	Laser	○	○	○
Tool Broken Detective Device		○	○	○
Linear Scale	X/Y/Z Axis	○	○	○
Rotary Scale	A/C Axis	–	–	●
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		☆	☆	☆
NC Rotary Tablel/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	65bar (942.7 psi) / 30 ℓ (7.9 gal)	●	●	●
Fixture Hyd. Unit	45bar (652.7 psi)	○	○	○
	70bar (1,015 psi)	○	○	○
	100bar (1,450 psi)	☆	☆	☆
	Customized	☆	☆	☆
ETC				
Tool Box		●	●	●
Customized Color	Need for Munsel No.	☆	☆	☆
CAD&CAM Software		☆	☆	☆

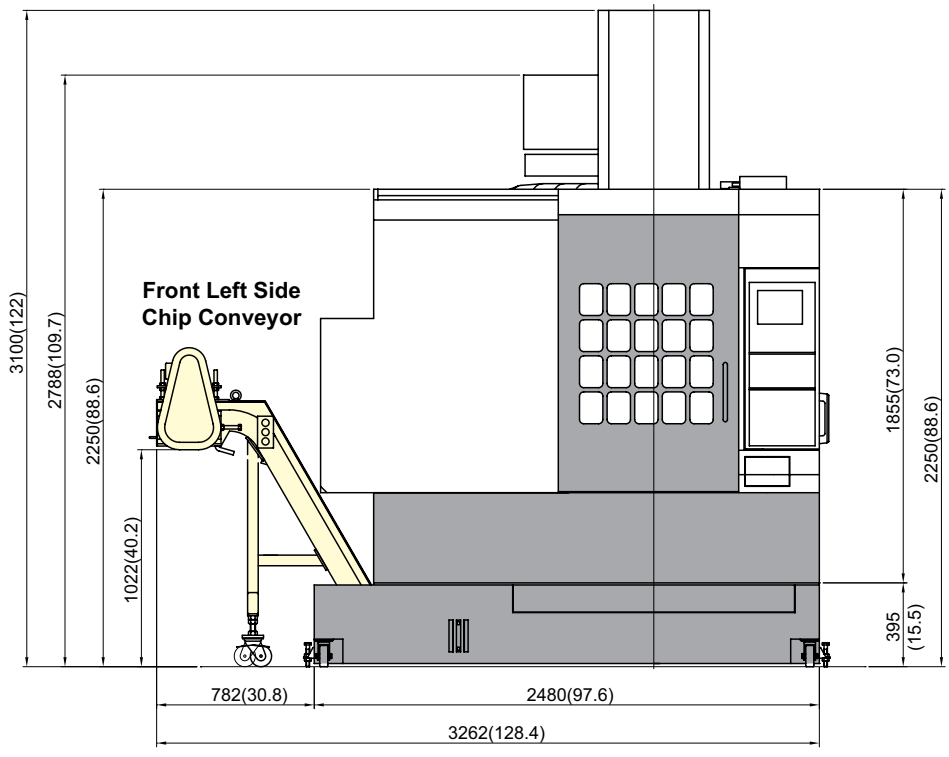
Through Spindle Coolant* : Please check the filter types with sales representative.

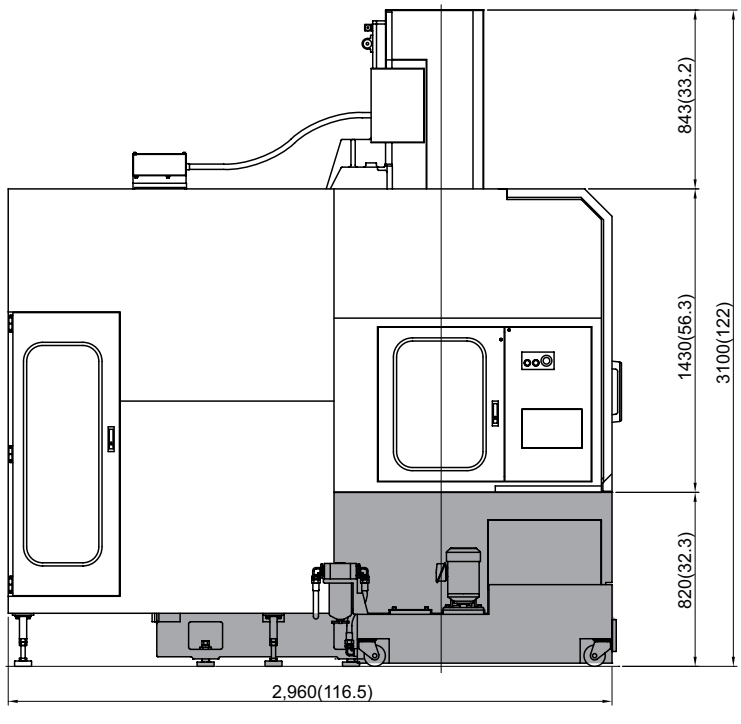
Specifications are subject to change without notice for improvement.

External Dimensions

unit : mm(in)

Hi-MOLD450



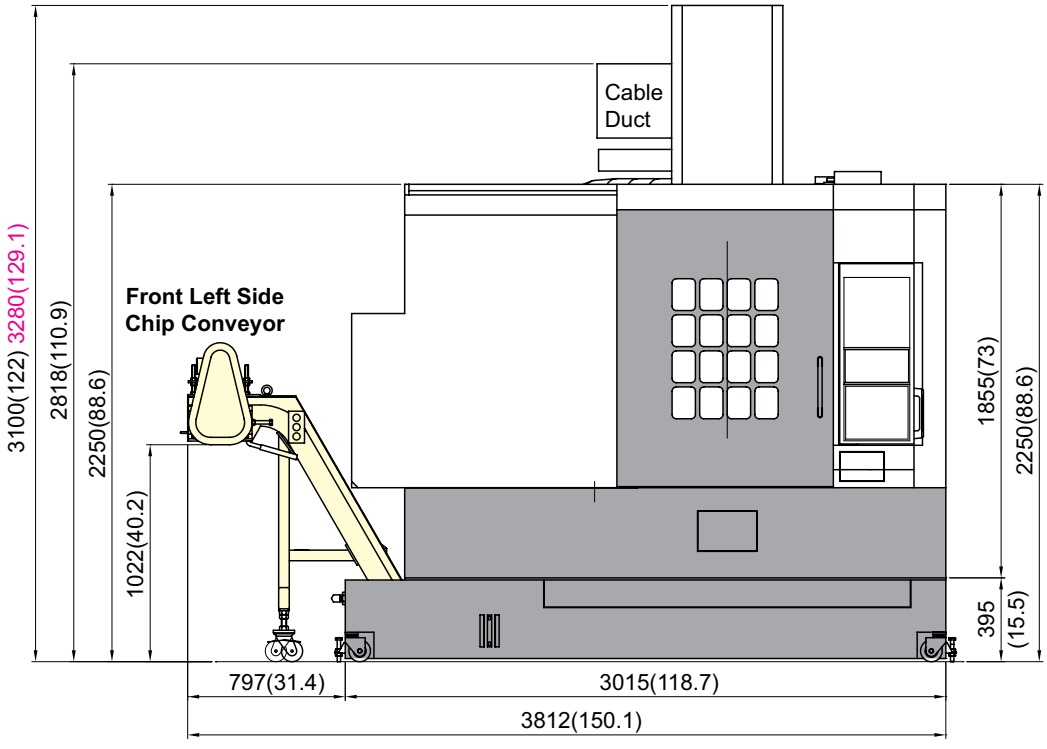


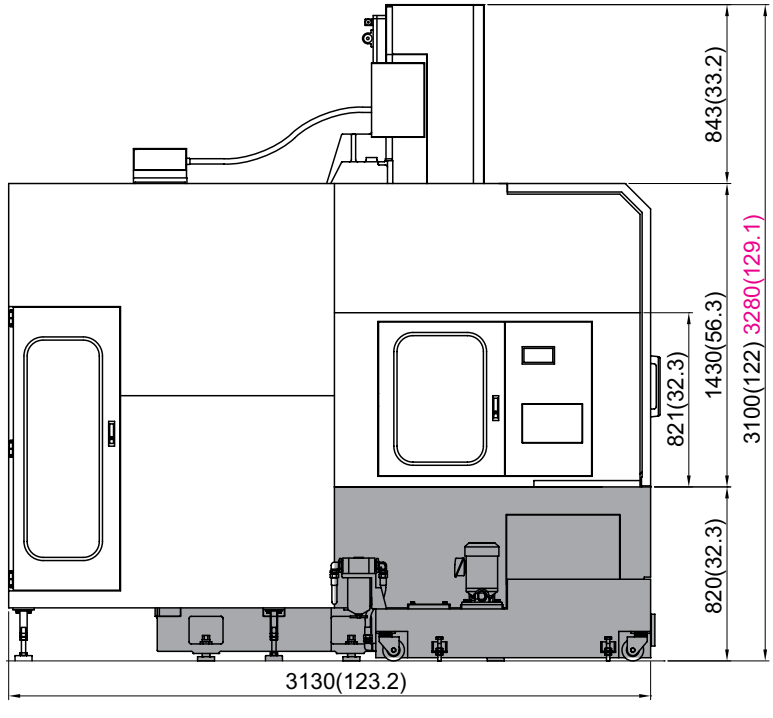
SPECIFICATIONS

External Dimensions

unit : mm(in)

Hi-MOLD560 I 560/5A



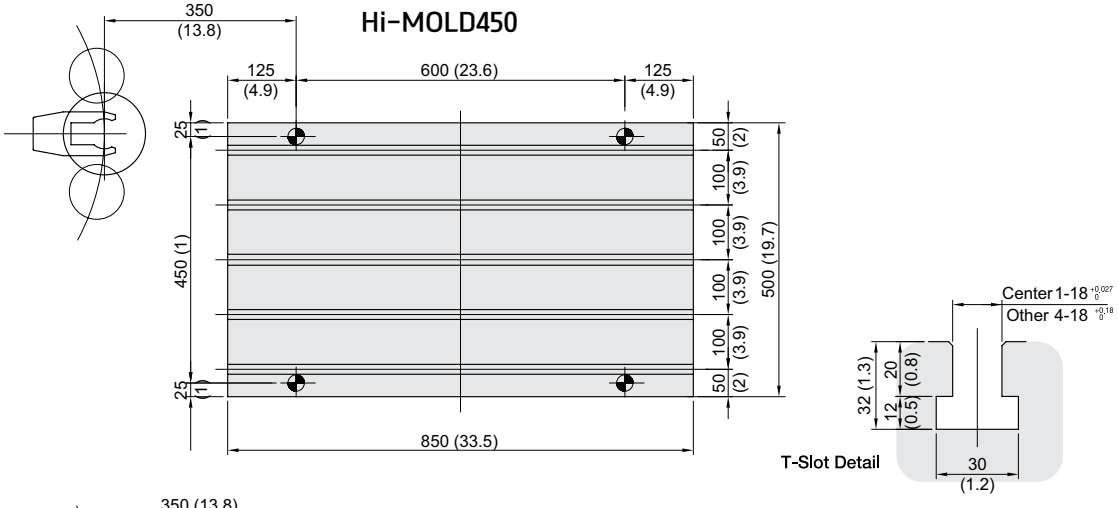


SPECIFICATIONS

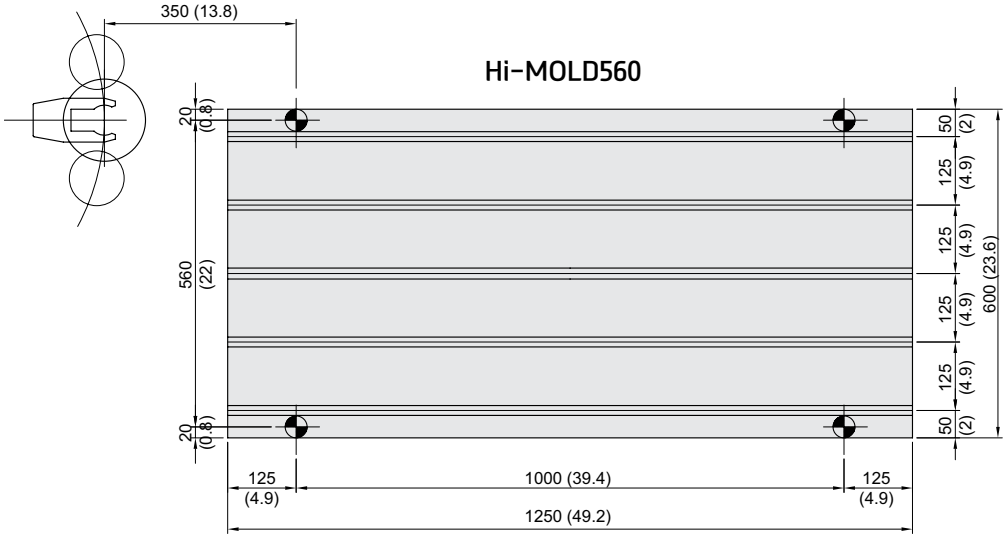
Table Dimensions

unit : mm(in)

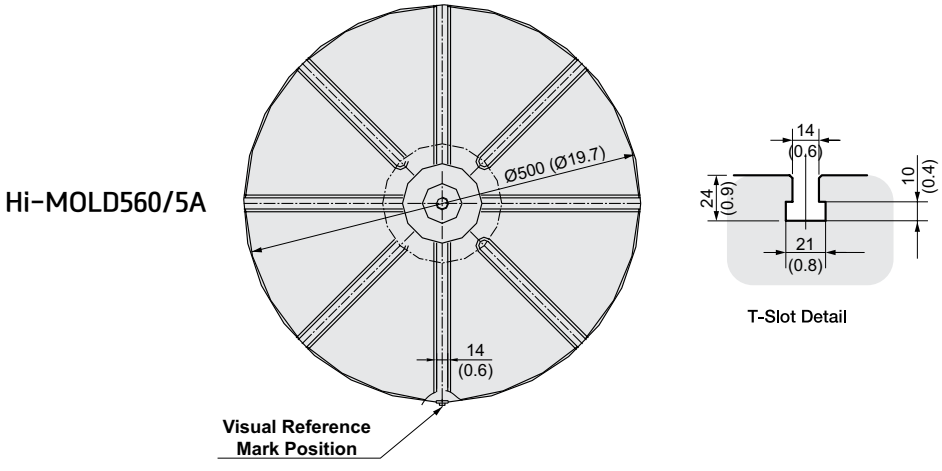
Hi-MOLD450



Hi-MOLD560



Hi-MOLD560/5A

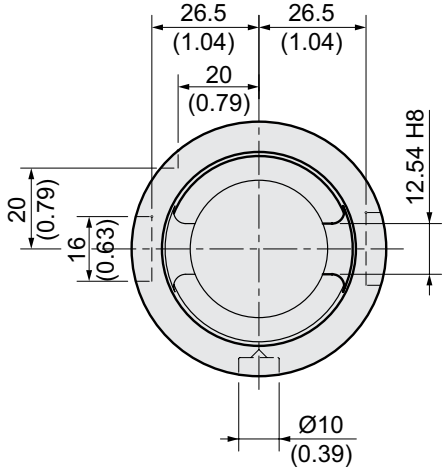


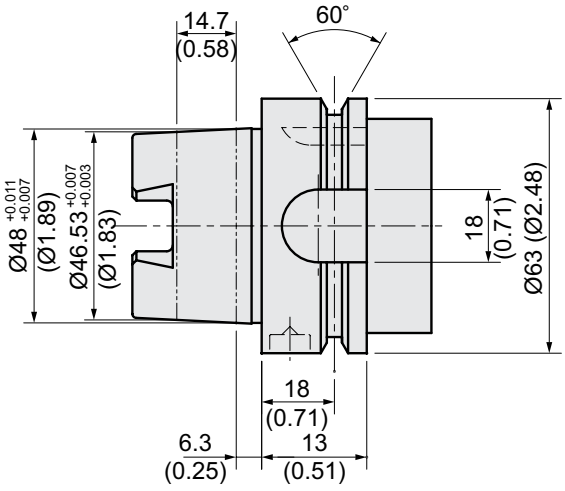
SPECIFICATIONS

Tool Shank

unit : mm(in)

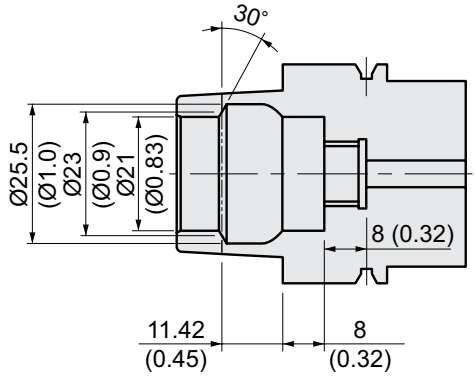
HSK-A63 (24,000rpm)

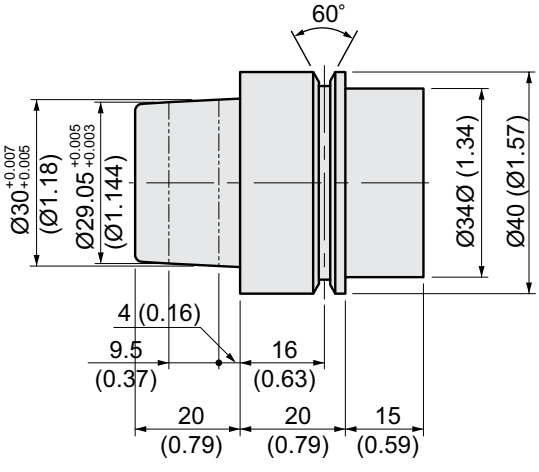




HSK-E40 (40,000rpm)

OPTION





SPECIFICATIONS

Specifications

[ ] : Option

ITEM				Hi-MOLD450	Hi-MOLD560	Hi-MOLD560/5A
TABLE	Table Size (L×W)		mm(in)	850×500 (33.5″×19.7″)	1,250×600 (49.2″×23.6″)	(L×H) Ø500x270 (Ø19.7″x10.6″)
	Maximum Load Capacity		kg(lb)	300 (661)	800 (1,764)	250 (551)
	Table Change Time		sec	–		
	Change Method		–	–		
	Table Driving Method		–	–		
SPINDLE	Spindle Taper		–	HSK-A63 : 24,000 [HSK-E40 : 40,000]		
	Spindle RPM		r/min	24,000 [40,000]		
	Spindle Power Output (Max./Cont.)		kW(HP)	33/25 (44.3/33.5) [26/18 (34.9/24.1)]		
	Spindle Torque (Max./Cont.)		N·m(lbf·ft)	96/72.5 (70.8/53.5) [16.8/12.2(12.4/9)]		
	Spindle Driving Method		–	BUILT-IN		
FEED	Travel	X/Y/Z Axis	mm(in)	600(+350 ATC)/450/450 (23.6″/17.7″/17.7″)	1,000(+350 ATC)/560/450 (39.4″/22″/17.7″)	
		A/C Axis	deg	–		+30° ~ −120°/360°
	Distance from Table Surface to SP		mm(in)	160 ~ 610 (6.3″~24″)		60~510 (2.4″~20″)
	Distance from Column to SP. center		mm(in)	370 (14.6″)		
	Rapid Traverse Rate	X/Y/Z Axis	m/min(ipm)	50/50/50 (1,969/1,969/1,969)		
		A/C Axis	r/min	–		70/150
	Slide Type		–	X/Y-Axis : LM GUIDE, Z-Axis : ROLLER GUIDE		
ATC	Number of Tools		ea	24		
	Tool Shank		–	HSK-A63 : 24,000 [HSK-E40 : 40,000]		
	Max. Tool Dia. (W/T Adjacent Tool)	24,000rpm	mm(in)	HSK-A63 : Ø100/Ø140 (Ø3.9″/Ø5.5″)		
		40,000rpm	mm(in)	HSK-E40 : Ø70/Ø140 (Ø2.7″/Ø5.5″)		
	Max. Tool Length		mm(in)	300 (11.8″)		
	Max. Tool Weight	24,000rpm	kg(lb)	HSK-A63 : 8 (17.6)		
		40,000rpm	kg(lb)	HSK-E40 : 1.5 (3.3)		
	Tool Selection Method		–	Fixed Address		
TANK CAPACITY	Coolant Tank		ℓ (gal)	350 (92.5)	450 (118.9)	
	Lubricating Tank		ℓ (gal)	3 (0.8)		
	Hydraulic Tank		ℓ (gal)	30 (8)		
POWER SUPPLY	Air Consumption (0.5MPa)		ℓ /min(gal/min)	500 (132)		
	Electric Power Supply		KVA	45		60
	Thickness of Power Cable		Sq	Over 35		
	Voltage		V/Hz	220/60 (200/50*)		
MACHINE	Floor Space (L×W)		mm(in)	2,480x2,960 (97.6″x116.5″)	3015x3,130 (118.7″x123.2″)	
	Height		mm(in)	3,100 (122″)		3,280 (129.1″)
	Weight		kg(lb)	8,500 (18,739)	10,000 (22,046)	12,000 (26,455)
NC	Controller		–	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

SIEMENS 840D sl

Control Function	
Max. configuration of axis	10-axes
Max. configuration of axis and sp.	Max 5-axes (Max. 20 Axes)
Least Command/input	0.001mm / 0.0001inch
Feed Function	
Feedrate Override	0 – 120%
Rapid Traverse Override	F0, 25, 50, 100%
Tool Function	
Tool Radius Comp.	
Zero Offset (G54, G55, G56, G57 ,G58, G59)	6EA (MAX:100EA)
Programmable Zero Offset	
3D Tool Radius Compensation	
Display	
Language	Chinese Simplified, English, French
	German, Italian, Spanish
CRT/MDI	TFT 10.4" Color
Screen saver	
Travel to fixed stop	
Spindle Function	
Spindle Override	50% – 120%
Spindle Orientation	
Spindle Speed Limitation	
Rigid Tapping	
Manual Operation	
Manual Handle/Jog Feed	
Reposition	
Reference Approach	Ref 1, 2 Approach
Spindle Control	Start, Stop, Rev, Jog, Ort.
Auto Operation	
Single Block	
Feed Hold	
Optional Block Skip	
Machine Lock	
Dry Run	
Simulation	
Diagnosis Function	
Alarm Display	
Spindle Load Meter/RPM Meter (monitor)	
Programming Function	
Part Program Storage Length	10MB
Program Name	23 digits
Subroutine Call	7Level
Absolute/incremental Command	G90 – G91

Programming Input & Interpolation Function	
Scaling / Rotation	
Inch / Metric Conversion	
Conversational Cycle Program	22 Machine
Block Search	
Macro	
Read/Write System Variable	
BackGround Editing	
Miscellaneous Functions	M – Code
Skip	
Program Stop	M00, M01, M02, M30
Lookahead, Jerk Limitation Feed & Forward Control	
Helical interpolation	
COMPCAD, COMPCURB	
Cylinderical interpolation	
Work Coordiante interpolation	
Conversational Program	
Fanuc Program exe.	
Machining Package Milling	
Data transfer	
Protection Function	
Emergency Stop	
Soft Limit / Over Travel	Soft Limit & Hard O.T
Contour Monitoring	
Program Protection	
Automation Support Fun.	
Actual Speed Display (Monitor)	
Tool Life Management	(Time, Parts)
Work Count	(Internal)
Language	
Two Language Switchable	(6EA)
	Chinese Traditional, Czech, Danish,
	Dutch, Finnish, Hungarian, Japanese,
	Korean, Polish, Russian, Swedish,
	Portuguese, Turkish
DATA Transfer	
RS 232C I/F	
Ethernet	

Option	
Display	With Harddisk
Data transfer	Only PCU50

Figures in inch are converted from metric values.
The SIEMENS controller specifications are subject to change based on the policy of company CNC supplying.

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Hi-MOLD560/5A
Movie 1

Hi-MOLD560/5A
Movie 2

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