



HYUNDAI WIA Multi-tasking Machine



Technical Leader

Multitasking Machine **XM Series**, designed by HYUNDAI WIA with years of expertise and the latest technology, is designed to maximize productivity by utilizing mill head and lower turret.

ITEM	XM2600	XM2600S	XM2600ST	XM3100	XM3100S	XM3100ST
10″ 1st Spindle	•	•	•			
12″ 1st Spindle		45.0			• 1	•
10" 2nd Spindle	<u> </u>	•	•		•	•
B-axis Mill Head	•	•	•	•	•	•
NC Servo Tail Stock	•			•		
Std. Turret	<u> </u>					•
Mill Turret	-	-	0	-		0

Series 9-axis Multi-tasking Machine

- The adoption of a milling head with a built-in motor B axis (0.0001°) enables the operator to perform turning and milling works in perfect harmony
- Expanded machining area by shortening the length of the mill head
- Y-axis travel distance increased : 250 mm (9.8") -> 300 mm (11.8")
- Application of CAPTO C6 tool for high speed complex machining
- The model features built-in 1st & 2nd-spindles with high power and high torque





Applications & Parts

VACUUM PUMP ROTOR



IMPELLER

MOUNTING SHELL





HOUSING, ELECTRIC MOTOR





BLADE, COMPRESSOR

HOUSING, ENGINE





CRANKSHAFT

01 BASIC STRUCTURE

Multitasking machine for high productivity



6/7/9-AXIS MULTI-TASKING MACHINE



Built-in Spindle (1st/2nd)

XM Series 1st/2nd built-in spindle minimizes vibration to allow machining of the highest precision.

• Chuck Size (1st/2nd) XM2600: 10"/10", XM3100: 12"/10"



Compact Mill Head

The B-axis control mill head is mounted with a high resolution encoder having a built-in motor and 0.0001° indexing ability to secure high positioning precision.

• Driving Methode : **Built-in** • Speed : **12,000** r/min



3 Lower Turret (ST Type)

The lower turret ensures high-speed machining of complicated shapes in precision only with one-time setting of workpiece machined with the mill head.

• Std.: Turning Turret • Opt: BMT65 Mill Turret (5,000rpm)



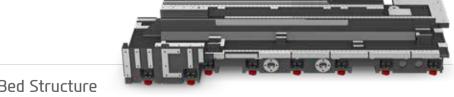
4 ATC & Magazine

The installation of magazine on the front provides efficient tool change and tool setting. Magazine with chain driving method provides 40 tools as standard, and 80 tools as option.

• Tool Shank Type : **CAPTO C6** • Tool Change Step : **4** Step



Secure Bed Structure



It enables high–speed/high–precision machining by significantly lowering the center of gravity of the bed, and stably arranging key units including the main spindle and columns on the bed. In particular, the cover is designed so that chips and cutting oil are not directly transferred to the bed, reducing precision errors due to temperature changes.





Guideway

HIGH SPEED & HIGH PRECISION

Y-AXIS

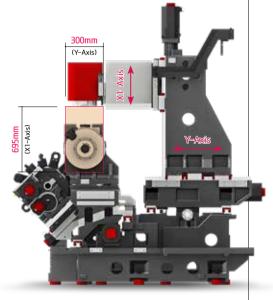
Cross Type Y-axis

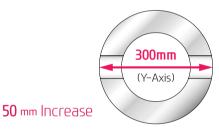
The cross type Y-axis ensures excellent positioning accuracy and provides easier programming and correction of programs which helps in enhancing productivity.



The adoption of Y-axis with wide cutting range of 300mm(11.8") allows Y-axis cutting in a single step without having to rotate the C-axis, and improves the cutting pitch and precision level.

Previous Model	250 mm (9.8")	
XM Series	300	mm (11.8″)





GUIDE WAY

High-Speed Roller LM Guideway

Linear roller guideways are applied to reduce non-cutting time and bring high rigidity.

Ball Screw Nut Cooling (Z1/Y/X1 axis : Std.)

The Z1, Y, and X1 axis, which have a higher transfer frequency than other axis, use the ball screw nut cooling method as standard to minimize thermal displacement due to the frequent repetitive motion.



Linear Scale OPTION

Linear scales on all axis providing high precision positioning accuracy and compensates for ball screw thermal displacement ensuring extremely precise machining.

In addition, the absolute type linear scale is installed in close proximity to the ball screw of each axis.

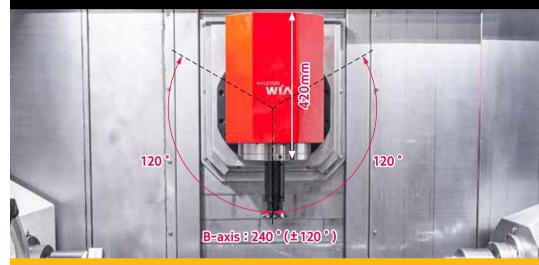




MACHINING PROCESS WITH ONLY ONE INITIAL SETTING

Millhead for multi-tasking The XM Series is the culmination of HYUN

The XM Series is the culmination of HYUNDAI WIA's technological prowess, capable of machining any product of complex shape required by a customer through its mill head and lower turret.



Expansion of machining range

The length of the mill head has been reduced by 130mm (5.1") compared to the previous model to expand the machining range.

Compact Mill Head with a B-axis Operated by a High-precision DDM

The mill head is a product of combining HYUNDAI WIA's latest technologies. The B-axis operated by DD motor method (0.0001°) to eliminate rotational backlash and 1st spindle (0.0001°) together can machine impellers, blades and other simultaneous 5-axis machining (standard application).

Also, it can perfectly carry out machining of workpieces with complex shape including sloped surface, etc

Mill Head Specifications

Driving Method	Speed	B-axis Travel	Indexing Angle	Tool Shank
Built-in	12,000 rpm	240° (-120°~+120°)	0.0001°	CAPTO-C6

CAPTO-C6

CAPTO-C6, which allows double-sided circulation, is applied as a standard for maximum cutting capability.

- Ideal over load analysis
- Decreased tool change time by short taper / Excellent cutting ability





TWIN BUILT-IN SPINDLE FOR HIGH PRODUCTIVITY

SPINDLE

Built-in Spindle (1st/2nd)

The 1st and 2nd spindles with a built-in motor structure can minimize the vibration and heat generated during high-speed rotation, which makes them ideal for high-precision machining.

Also, Machines with a 2nd spindle can perform secondary operations with a single setup, increasing flexibility and productivity.



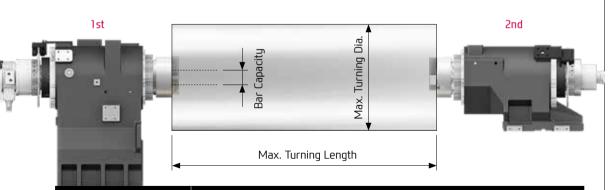
C-Axis Control – C-axis control of 1st and 2nd spindle allows machining of various products

1st Sp. C1-axis : **0.0001°**

2nd Sp. C2-axis : **0.001°**

Spindle Oil Cooling

The 1st/2nd spindles have been fitted with cooling units as a standard feature to minimize thermal displacement generated during cutting works, maintain a constant temperature, and increase cutting stability.



	XM2600		XM3100	
	1st	2nd	1st	2nd
-	Built-In			
mm(in)	Ø660 (Ø26″)			
mm(in)	1,540 (60.6")			
inch	10″		12″	10"
kW(HP)	30/22 (40/29.5)		37/25 (50/33.5)	30/22 (40/29.5)
mm(in)	Ø81 (Ø3.2″)		Ø102 (Ø4")	Ø81 (Ø3.2")
r/min	4,0	00	3,000	4,000
	mm(in) mm(in) inch kW(HP) mm(in)	1st	Ist 2nd - Buil mm(in) Ø660 mm(in) 1,540 inch 10" kW(HP) 30/22 (40/29.5) mm(in) Ø81 (Ø3.2")	1st 2nd 1st - Built-In mm(in) Ø660 (Ø26") mm(in) 1,540 (60.6") inch 10" 12" kW(HP) 30/22 (40/29.5) 37/25 (50/33.5) mm(in) Ø81 (Ø3.2") Ø102 (Ø4")





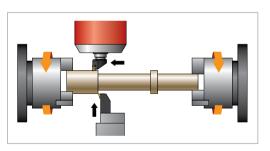
TURRET

Mill Turret OPTION (Std : Turning Turret)

The lower mill turret (Opt.) ensures the high-speed machining of complicated shapes in precision only with the one-time setting of an object to be machined with the mill head and complex machining.

⊙ Collet Size : Ø20 (0.8") / ER32

• Indexing Time : 0.2 sec



Enables Simultaneous Turning for Milling heads and Lower Turrets

The ST model, with its upper milling heads and lower turrets, enables simultaneous turning.

Simultaneous turning options for both OD \leftrightarrow end face and roughing OD \leftrightarrow finishing OD help improve the productivity.



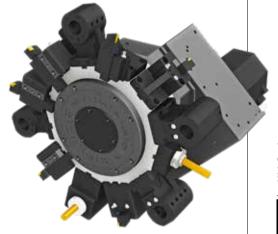


The XM2600ST/XM3100ST, compatible with a lower mill turret (optional), allow to process the keyway from the inside of the material using a connector attached to the rotary tool holder.

More importantly, it is a Hyundai Wia's patented, customized solution for improving the tooling efficiency of new parts including motor housings for electric vehicles.

Mill Holders Attachments

- Offset length: 50 250mm (manufactured according to customer's workpieces)
- Applicable to both angular & straight milling heads
- The special holder (BMT45) is not compatible with BMT65 for lower turrets
- Consultation needed when ordering these options.



06 USER CONVENIENCE

Various Devices for User Friendly

The XM Series offers Ergonomic Design for Easy Operability and Maintenance.



Improved Access with Larger Front Door

The adoption of a larger front door makes crane access for cutting preparation works, such as setting up workpieces, much easier.

Highly Accessible Spindle

The spindle's ergonomic design improves access for the chuck and makes it easier to set up workpieces. The height from the floor to the center of the spindle has been carefully considered in order to improve the operator's convenience when setting up work pieces.

Operation Panel

The arms for the OP box and the OP box can rotate independently, which makes operating convenient depending on the workpiece setting or worker position thus allowing the user to easily move the arms to desired location.



HIGH RIGIDITY, TOOL CHANGE SYSTEM

AUTOMATIC TOOL CHANGE SYSTEM

Magazine (1st) -

Magazine (2nd) [Opt.]

ATC & Magazine

There is a magazine on the front side of the machine for efficient tool exchange and setting, and tool exchange operation is simplified and highly reliable. The tools are also fed in the quickest routes, which allows prompt replacement of tools.



ATC Side Repair Window (80 ATC)

You can easily access the ATC through the side repair window if inspection or cleaning of the ATC is necessary.



Automated Tool Attachment/
Detachment Device (Std.)

The automated tool attachment/detachment device uses an air cylinder for easy tool attachment/detachment.

ATC & Magazine Specifications

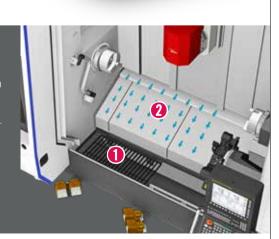
No. of Tools	Max. Tool Length	Max. Tool Dia. (W.T/W.O)	Max. Tool Weight
40 [80] EA	450 mm (17.7")	Ø90/Ø130 (Ø3.5″/Ø5.1″)	12 kg (46.3 lb)

1 Internal Maintenance Foothold (Std.)

There is a foothold within the machine for the worker to be able to maintain a stable posture when accessing the equipment.

2 Bed Lower Flushing (Std.)

The entire upper surface of the slide cover features a flushing structure, which allows the slide cover to be maintained in a clean state at all times (patented).



07 FANUC

The Compatible All-round Control

FANUC 31i-B5 Plus

This is the core model of FANUC CNC with the performance of the world highest level. With abundant functions and high-speed, highly-accurate and high-quality machining technology, it is the most suitable for a high-grade and machining center.

15" Touch Screen Monitor Applied

Control axis : 9 axis (X1, Y1, Z1, B1, X2, Z2, A, C1, C2)

Simultaneously controlled axis: 5 axis

Part program storage size : 4 Mbyte (1,024m)

No. of registerable programs: 1,000 EA

Tool offset pairs: 400 pairs

Look-ahead block: 1,000 block

Conversational auto program : Smart Guide i

The XM Series has a 15" large monitor for enhanced visibility. In particular, we can create more convenient use conditions by improving the operating environment such as program setup and simulation through a large screen.

Chip Breaking option

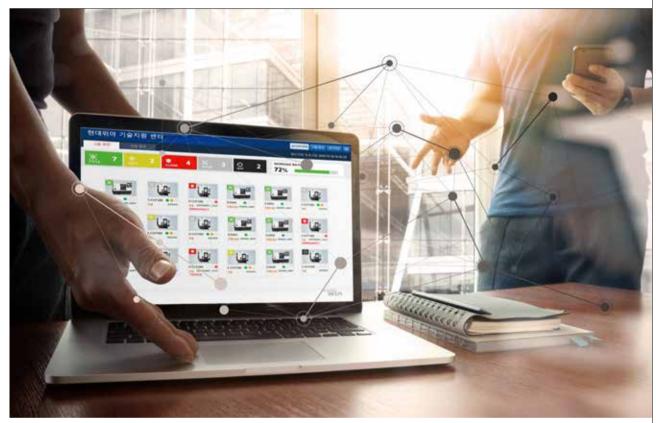
- Machining Method: he tool cuts the workpiece moving in a zigzag pattern. (Oscillating) → Air cut section occurs → Long chips break
- Advantage: Increase tool life, Enhance surface finishing, Improve chip disposal
- Machine : All turning centers with FANUC controller (Option)



Cutting chips

Machining path

MMS (Machine Monitoring System)







MMS Cloud

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

Manufacturing big data solution with design, manufacturing, and intelligence technology of HYUNDAI-WIA (Big data collection/Analysis/Visualization)

SMART CNC (FANUC Smart Plus)





1. Dialogue Program (Smart Guide-i)

This software offers the maximum user convenience through dialogue manipulation from setup to processing. This includes writing processing programs and simulation checks.

2. LAUNCHER

This software offers shortcuts for quick access to specialized features and frequently used features.

XM2600 Series Standard & Optional

● 표준사양 ○ 선택사양 ☆ 기술협의 - 적용불가

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20/30/70 bar	0	0	0
utomation)	☆	☆	☆
	☆	☆	☆
620 £ (163.8 gal)	•	•	•
Frent (Diet 1)			_
Front (Right)	0	0	0
Filter)	☆	☆	☆
(180 £ [47.5 gal])	0	0	0
	0	0	0
Large Swing (290 & [76.6 gal])	0	0	0
Large Size (330 £ [87.2 gal])	0	0	0
	10" 10" 10" 10" 10" 10" 10" 10" 10" 10"	10"	10" - 0 10" -

Electric Device	2600	26005	2600ST	
Call Light & Buzzer	3Color : • • B	•	•	•
Electric Cabinet Light		0	0	0
Remote MPG		•	•	•
Electric Circuit Breaker		0	0	0
AVR (Auto Voltage Regulator)		☆	☆	☆
Transformer	80kVA	0	0	0
Auto Power Off		0	0	0
Measurement				
Auto Q-Setter	Lower Turret	-	-	0
Work Close Confirmation Device	TACO	0	0	0
(Only for Special Chuck)	SMC	0	0	0
Tool Length Measuring Device	Touch	0	0	0
(Mill Head)	Contactless-NC4	0	0	0
Automatic Workpiece Measuring Device	RMP600	0	0	0
HWTM (Tool Monitoring System)		0	0	0
X1/V1/71 Avis		0	0	0
Linear Scale	X2/Z2 Axis	-	-	0
Coolant Level Sensor (Only fo	r Chip Conveyor)	\$	☆	*
Environment				
Air Conditioner		0	0	0
Oil Mist Collector		☆	☆	☆
Oil Skimmer (Only for Chip Cor	0	0	0	
MQL (Minimal Quantity Lubrication)		☆	☆	☆
Fixture & Automation				
Auto Door		0	0	0
Auto Shutter (Only for Autom	atic System)	☆	☆	☆
Sub Operation Pannel		☆	☆	☆
Extra M-Code 4ea		0	0	0
Automation Interface		☆	☆	☆
Hyd. Device				
Standard Hyd. Unit : 4.5Mpa/4	15 & (11.9 gal)	•	•	•
S/W				
HYUNDAI WIA Smart Software		•	•	•
Thermal Compensation		•	•	•
DNC software (HW-eDNC)		0	0	0
Machine Monitoring System (I	HW-MMS)	0	0	0
Safety Device				
Back Spin Torque Limiter (BST)	•	•	•
Total Splash Guard		•	•	•
Chuck Hydraulic Pressure Mai	ntenance Interlock	☆	☆	☆
ETC				
Tool Box		•	•	•
Customized Color	Need Munsel No.	☆	☆	☆
CAD & CAM Software		÷	☆	4

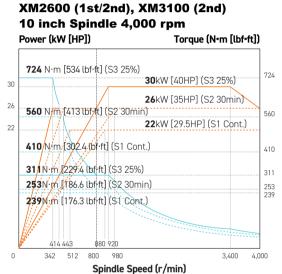
XM2600 Series Standard & Optional

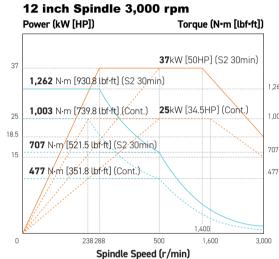
Spindle				
		3100	31005	3100ST
1st Sp. Hollow Chuck 3 Jaw	12"	•	•	•
1st Sp. Solid Chuck 3 Jaw	12"	0	0	0
2st Sp. Hollow Chuck 3 Jaw	10"	-	0	0
2st Sp. Solid Chuck 3 Jaw	10"	-	•	•
Standard Soft Jaw (1set)		•	•	•
Chuck Clamp Foot Switch		•	•	•
2 Steps Hyd, Pressure Device		☆	☆	☆
Spindle Inside Stopper		☆	☆	☆
Chuck Open/Close Confirmati	on Device	•	•	•
Chuck Pressure Check Switch		•	•	•
	1st (0.0001°)	•	•	•
C-Axis	2nd (0.001°)	_	•	•
Feed System	End tolog 7			
	X1, Y, Z1	•	•	•
Ball Screw Nut Cooling	Α Α		☆	☆
ban serem riac cooming	X2, Z2		_	*
Mill Head	71, 21			
Tool Shank Type	CAPTO C6	•	•	•
	CAFTOCO			
ATC & Magazine	40 Tool	_		_
ATC Extension	40 Tool	•	•	•
Louis Tusset	80 Tool	0	0	0
Lower Turret	2254			
Tool Holder	12EA		-	•
Mill Turret	BMT		_	0
Straight Milling Head	Adapter Type, 1ea	-	-	0
Angular Milling Head	Adapter Type, 1ea	-	-	0
Mill Holder Attachment	BMT45	-	-	☆
Boring Sleeve		-	-	0
Drill Socket		-	-	0
Angle Head		-	-	☆
Tail Stock & Steady Rest				
Programable NC Servo Tail St	ock (MT#5)	•	-	-
Standard Live Center		•	-	-
	SLU-3.1	0	0	0
	SLU-3.2	0	0	0
Steady Rest	SLU-4	0	0	-
Steady Rest				
	SLU-5	0	0	-
	SLU-5.1	0	0	-
Lower Tool Mount Steadu Re	SLU-5.1			-
Lower Tool Mount Steady Re:	SLU-5.1	0	0	
Coolant & Air Blow	SLU-5.1	0 -	0 -	- 0
Coolant & Air Blow Standard Coolant (Mill Front)	SLU-5.1	•	•	- 0
Coolant & Air Blow Standard Coolant (Mill Front) Chuck Coolant (Upper Chuck)	SLU-5.1	•	•	- 0
Coolant & Air Blow Standard Coolant (Mill Front) Chuck Coolant (Upper Chuck) Gun Coolant	SLU-5.1 st (SLU 3.2)	•	• 0	- 0
Coolant & Air Blow Standard Coolant (Mill Front) Chuck Coolant (Upper Chuck) Gun Coolant Shower Coolant (Bed Flushing	SLU-5.1 st (SLU 3.2)	• • • • • • • • • • • • • • • • • • •	0 -	- 0
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Coolant & Air Blow Standard Coolant (Mill Front) Chuck Coolant (Upper Chuck) Gun Coolant Shower Coolant (Bed Flushing Through Spindle Coolant (Onl Thru Coolant for Live Tool	SLU-5.1 st (SLU 3.2) g) y for Special Chuck)	0 - 0 0	0 -	- 0
Coolant & Air Blow Standard Coolant (Mill Front) Chuck Coolant (Upper Chuck) Gun Coolant Shower Coolant (Bed Flushing Through Spindle Coolant (Onl Thru Coolant for Live Tool Chuck Air Blow (Upper Chuck	SLU-5.1 st (SLU 3.2) g) y for Special Chuck)	0 - 0 0 0	0 -	- 0
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Coolant & Air Blow Standard Coolant (Mill Front) Chuck Coolant (Upper Chuck) Gun Coolant Shower Coolant (Bed Flushing Through Spindle Coolant (Onl Thru Coolant for Live Tool Chuck Air Blow (Upper Chuck 2nd Spindle Air Blow Turret Air Blow Air Gun Through Spindle Air Blow Air Gun Through Spindle Air Blow (Onl High-pressure Coolant Power Coolant System (For A Coolant Chiller Chip Disposal Coolant Tank	g) y for Special Chuck) of or Special Chuck) 20/30/70 bar utomation)	0 - 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
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Coolant & Air Blow Standard Coolant (Mill Front) Chuck Coolant (Upper Chuck) Gou Coolant Shower Coolant (Bed Flushing Through Spindle Coolant (Onl Thru Coolant for Live Tool Chuck Air Blow (Upper Chuck 2nd Spindle Air Blow Turret Air Blow Air Gun Through Spindle Air Blow (Only, High-pressure Coolant Power Coolant System (For A Coolant Chiller Chip Disposal Coolant Tank Chip Corweyor (Hinge/Scraper)	g) y for Special Chuck) of or Special Chuck) 20/30/70 bar utomation) Front (Right)	0 -	0 - 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
Coolant & Air Blow Standard Coolant (Mill Front) Chuck Coolant (Upper Chuck) Gou Coolant Shower Coolant (Bed Flushing Through Spindle Coolant (Onl Thru Coolant for Live Tool Chuck Air Blow (Upper Chuck) 2nd Spindle Air Blow Turret Air Blow Air Gun Through Spindle Air Blow (Only, High-pressure Coolant Power Coolant System (For A Coolant Chiller Chip Disposal Coolant Tank Chip Corweyor	g) y for Special Chuck) y for Special Chuck) 20/30/70 bar utomation) Front (Right) Filter)	0 - 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0	
Coolant & Air Blow Standard Coolant (Mill Front) Chuck Coolant (Upper Chuck) Gou Coolant Shower Coolant (Bed Flushing Through Spindle Coolant (Onl Thru Coolant for Live Tool Chuck Air Blow (Upper Chuck 2nd Spindle Air Blow Turret Air Blow Air Gun Through Spindle Air Blow (Only, High-pressure Coolant Power Coolant System (For A Coolant Chiller Chip Disposal Coolant Tank Chip Corweyor (Hinge/Scraper)	g) y for Special Chuck) of or Special Chuck) 20/30/70 bar utomation) Front (Right)	0 -	0 - 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
Coolant & Air Blow Standard Coolant (Mill Front) Chuck Coolant (Upper Chuck) Gou Coolant Shower Coolant (Bed Flushing Through Spindle Coolant (Onl Thru Coolant for Live Tool Chuck Air Blow (Upper Chuck 2nd Spindle Air Blow Turret Air Blow Air Gun Through Spindle Air Blow (Only, High-pressure Coolant Power Coolant System (For A Coolant Chiller Chip Disposal Coolant Tank Chip Corweyor (Hinge/Scraper)	st.U-5.1 st (SLU 3.2) g) y for Special Chuck) y for Special Chuck) 20/30/70 bar utomation) 620 £ (163.8 gal) Front (Right) Filter) Standard (180 £ [47.5 gal])	0 - 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0	
Coolant & Air Blow Standard Coolant (Mill Front) Chuck Coolant (Upper Chuck) Gou Coolant Shower Coolant (Bed Flushing Through Spindle Coolant (Onl Thru Coolant for Live Tool Chuck Air Blow (Upper Chuck 2nd Spindle Air Blow Turret Air Blow Air Gun Through Spindle Air Blow (Only, High-pressure Coolant Power Coolant System (For A Coolant Chiller Chip Disposal Coolant Tank Chip Corweyor (Hinge/Scraper)	st.U-5.1 st (SLU 3.2) g) y for Special Chuck) y for Special Chuck) 20/30/70 bar utomation) 620 £ (163.8 gal) Front (Right) Filter) Standard (180 £ (47.5 gal]) Swing	0 - 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0	
Coolant & Air Blow Standard Coolant (Mill Front) Chuck Coolant (Upper Chuck) Gun Coolant Shower Coolant (Bed Flushin; Through Spindle Coolant (Onl Thru Coolant for Live Tool Chuck Air Blow (Upper Chuck) 2nd Spindle Air Blow Air Blow Air Blow Air Gun Through Spindle Air Blow (Only, High-pressure Coolant Power Coolant System (For A Coolant Chiller Chip Disposal Coolant Tank Chip Corneyor (Hinge/Scraper) Special Chip Conveyor (Drum	st.U-5.1 st (SLU 3.2) g) y for Special Chuck)) (for Special Chuck) 20/30/70 bar utomation) 620 £ (163.8 gal) Front (Right) Filter) Standard (180 £ [47.5 gal]) Swing (200 £ [52.8 gal])	0 - 0 0 0 4 - 0 4 0 4 0 4	0 - 0 0	
Coolant & Air Blow Standard Coolant (Mill Front) Chuck Coolant (Upper Chuck) Gou Coolant Shower Coolant (Bed Flushing Through Spindle Coolant (Onl Thru Coolant for Live Tool Chuck Air Blow (Upper Chuck 2nd Spindle Air Blow Turret Air Blow Air Gun Through Spindle Air Blow (Only, High-pressure Coolant Power Coolant System (For A Coolant Chiller Chip Disposal Coolant Tank Chip Corweyor (Hinge/Scraper)	st.U-5.1 st (SLU 3.2) g) y for Special Chuck) 20/30/70 bar utomation) 620 \(\text{(163.8 gal)} \) Front (Right) Filter) Standard (180 \(\text{[47.5 gal]} \) Swing (200 \(\text{[52.8 gal]} \) Large Swing	0 - 0 0 0 4 - 0 4 0 4 0 4	0 - 0 0	
Coolant & Air Blow Standard Coolant (Mill Front) Chuck Coolant (Upper Chuck) Gun Coolant Shower Coolant (Bed Flushin; Through Spindle Coolant (Onl Thru Coolant for Live Tool Chuck Air Blow (Upper Chuck) 2nd Spindle Air Blow Air Blow Air Blow Air Gun Through Spindle Air Blow (Only, High-pressure Coolant Power Coolant System (For A Coolant Chiller Chip Disposal Coolant Tank Chip Corneyor (Hinge/Scraper) Special Chip Conveyor (Drum	g) y for Special Chuck) y for Special Chuck) 20/30/70 bar utomation) Front (Right) Filter) Standard (180 @ [47.5 gal]) Swing (200 @ [52.8 gal]) Large Swing (290 @ [76.6 gal])	O O O O O O O O O O O O O O O O O O	0 0 0	
Coolant & Air Blow Standard Coolant (Mill Front) Chuck Coolant (Upper Chuck) Gun Coolant Shower Coolant (Bed Flushin; Through Spindle Coolant (Onl Thru Coolant for Live Tool Chuck Air Blow (Upper Chuck) 2nd Spindle Air Blow Air Blow Air Blow Air Gun Through Spindle Air Blow (Only, High-pressure Coolant Power Coolant System (For A Coolant Chiller Chip Disposal Coolant Tank Chip Corneyor (Hinge/Scraper) Special Chip Conveyor (Drum	st.UJ-5.1 st (SLU 3.2) g) y for Special Chuck) 20/30/70 bar utomation) Front (Right) Filter) Standard (180 @ [47.5 gal]) Swing (200 @ [52.8 gal]) Large Swing (290 @ [76.6 gal]) Large Size	O O O O O O O O O O O O O O O O O O	0 0 0	
Coolant & Air Blow Standard Coolant (Mill Front) Chuck Coolant (Upper Chuck) Gun Coolant Shower Coolant (Bed Flushin; Through Spindle Coolant (Onl Thru Coolant for Live Tool Chuck Air Blow (Upper Chuck) 2nd Spindle Air Blow Air Blow Air Blow Air Gun Through Spindle Air Blow (Only, High-pressure Coolant Power Coolant System (For A Coolant Chiller Chip Disposal Coolant Tank Chip Corneyor (Hinge/Scraper) Special Chip Conveyor (Drum	g) y for Special Chuck) y for Special Chuck) 20/30/70 bar utomation) Front (Right) Filter) Standard (180 @ [47.5 gal]) Swing (200 @ [52.8 gal]) Large Swing (290 @ [76.6 gal])	0 - 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0	

•	표준사양	ㅇ 선택사양	☆ 기술협의	- 적용불가

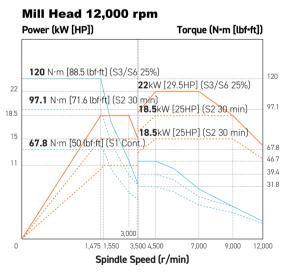
Electric Device		3100	31005	3100ST
Call Light & Buzzer	3Color : ■ ■ B	•	•	•
Electric Cabinet Light		0	0	0
Remote MPG		•	•	•
Electric Circuit Breaker		0	0	0
AVR (Auto Voltage Regulator)		☆	☆	☆
Transformer	80kVA	0	0	0
Auto Power Off		0	0	0
Measurement				
Auto Q-Setter	Lower Turret	-	-	0
Work Close Confirmation Device	TACO	0	0	0
(Only for Special Chuck)	SMC	0	0	0
Tool Length Measuring Device	Touch	0	0	0
(Mill Head)	Contactless-NC4	0	0	0
Automatic Workpiece Measuring Device	RMP600	0	0	0
HWTM (Tool Monitoring Syste	m)	0	0	0
	X1/Y1/Z1 Axis	0	0	0
Linear Scale	X2/Z2 Axis	_	_	0
Coolant Level Sensor (Only for		*	ric	*
Environment				
Air Conditioner		0	0	0
Oil Mist Collector		*	#	*
Oil Skimmer (Only for Chip Cor	avenuc)	0	0	0
MQL (Minimal Quantity Lubrica		*	#	*
Fixture & Automation	30017	Α	A	- н
Auto Door		0	0	0
Auto Shutter (Only for Automa	atic Suctom)	*	#	*
Sub Operation Pannel	nic ogotenii/	*	# #	☆
Extra M-Code 4ea		0	0	0
Automation Interface			-	-
		*	Å	☆
Hyd. Device	F A (110!)	_		
Standard Hyd. Unit : 4.5Mpa/4 S/W	5 k (11.9 ya)	•	•	•
		_	_	_
HYUNDAI WIA Smart Software		•	•	•
Thermal Compensation		•	•	•
DNC software (HW-eDNC)	NA MAG	0	0	0
Machine Monitoring System (F	IW-IMMS)	0	0	0
Safety Device				
Back Spin Torque Limiter (BST)	•	•	•
Total Splash Guard		•	•	•
Chuck Hydraulic Pressure Mair	ntenance Interlock	☆	ů.	☆
ETC				
Tool Box		•	•	•
Customized Color	Need Munsel No.	☆	☆	☆
CAD & CAM Software		☆	☆	☆

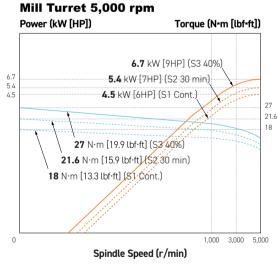
Spindle Output/Torque Diagram



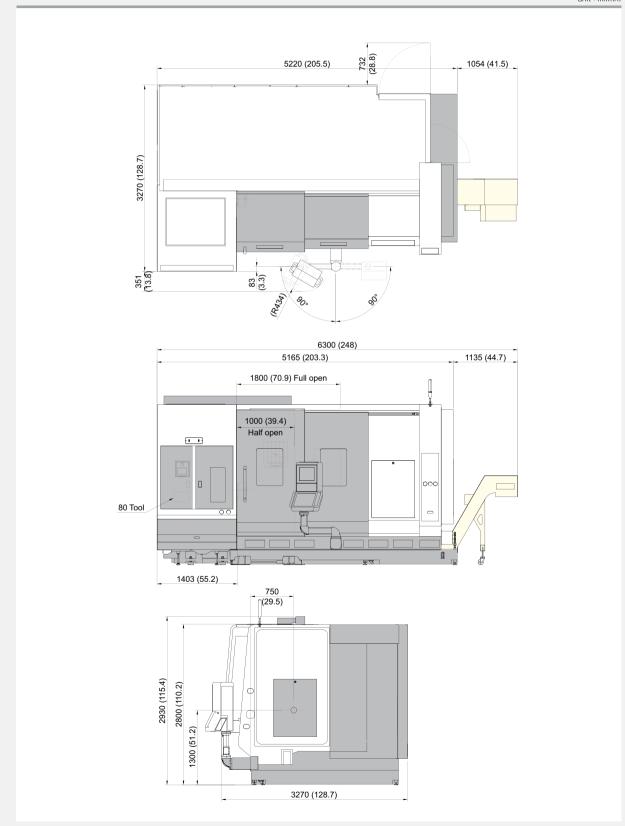


XM3100(1st)

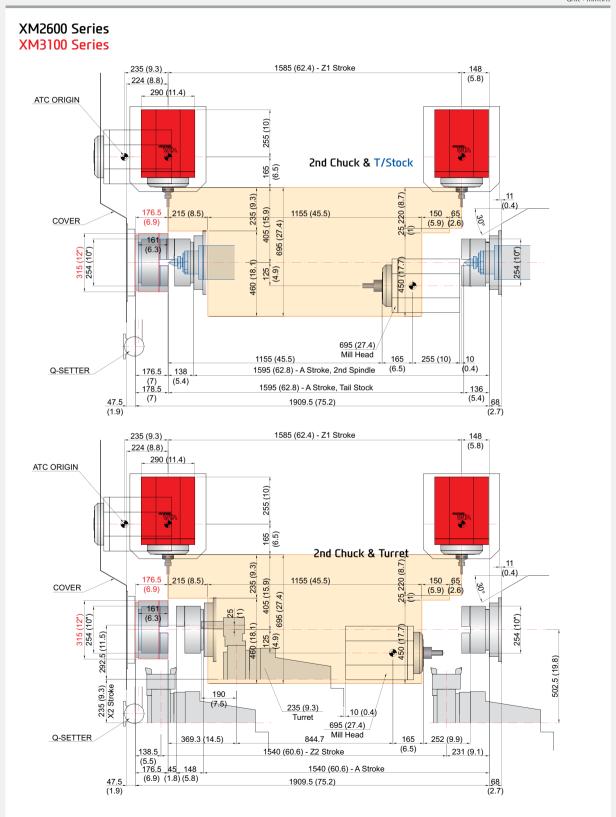




External Dimensions unit: mm(in)



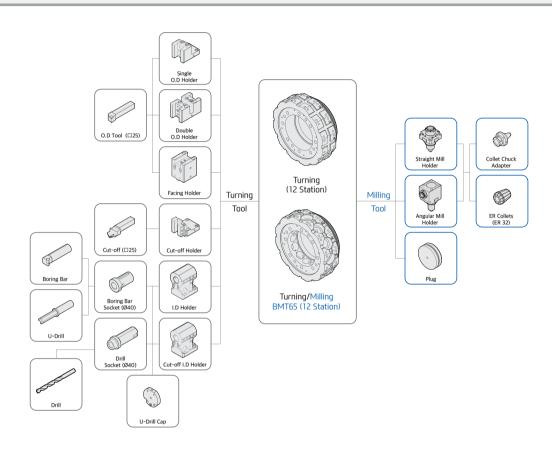
Interference unit: mm(in)



Interference unit: mm(in)

SICOVER SIC

Tooling System unit: mm(in)

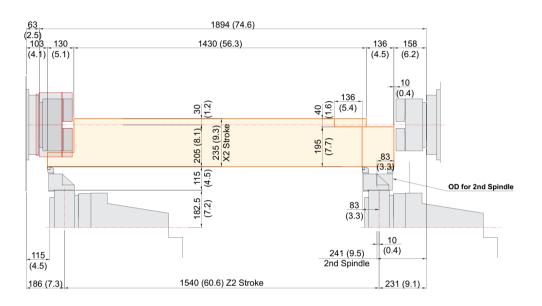


Tooling Parts Detail

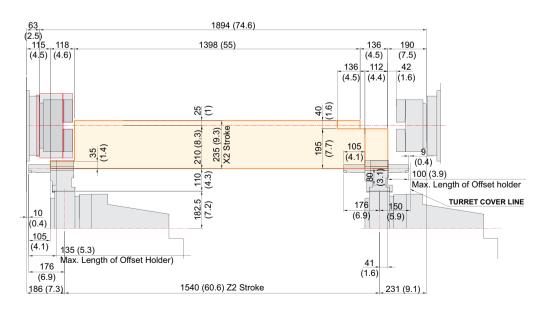
	ITEM		XM2600ST /	XM3100ST	
	HEM		Turning (Std.)	Milling (Opt.)	
O.D Holder		Right/Left	3	2	
ina Haldaa	O.D Holder	Double	2	2	
urning Holder Facing Holder Cutting Holder		1	1		
	Cutting Holder		1	1	
I.D Holder		Single	3	2	
Boring Holder	Holder Off-set I.D Holder		2	2	
U-Drill Cap		1	1		
Oriven Holder Straight Mill Holder Angular Mill Holder	Straight Mill Holder		-	1	
	Angular Mill Holder		-	1	
	Boring	Ø10 (Ø3/8")	1	1	
		Ø12 (Ø1/2")	1	1	
		Ø16 (Ø5/8")	1	1	
		Ø20 (Ø3/4")	1	1	
Socket		Ø25 (Ø1")	1	1	
		Ø32 (1 1/4")	1	1	
	D-111	MT 1×MT 2	1	1	
	Drill	MT 2	1	1	
	ER Collet		-	1 Set	
	Adapter Set		-	1 Set	

Tooling Travel Range

OD Holder

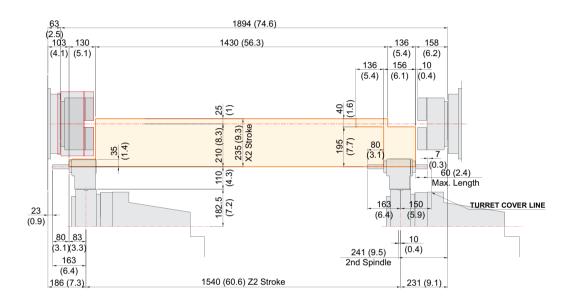


Boring Holder

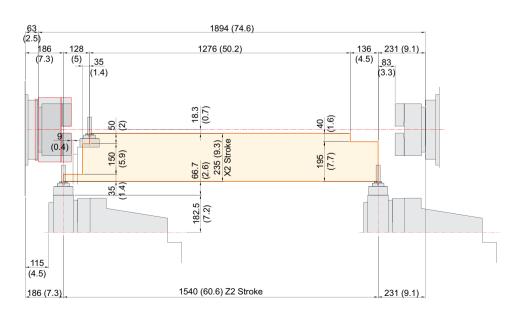


Tooling Travel Range

Angular Milling Holder



Straight Milling Holder



Specifications []: Option

	ITEM			XM2600	XM2600S	XM2600ST	
	Max.	Mill Head	mm(in)		Ø660 (Ø26")	ı	
	Turning Dia.	Turret	mm(in)		-	Ø410 (Ø16.1")	
CAPACITY	Max. Turing Len	gth	mm(in)		1,540 (60.6")		
	Bar Capacity		mm(in)	Ø81 (Ø3.2")	1st : Ø81 (Ø3.2")	2nd : Ø81 (Ø3.2")	
	Chuck Size		inch	10"	1st : 10"	2nd : 10"	
	Spindle Speed		r/min	4,000	1st : 4.000	2nd : 4,000	
	Spindle Power (N	Max./Cont.)	kW(HP)	30/22 (40/29.5)		2nd : 30/22 (40/29.5)	
	Spindle Torque (May /Cont.)		N·m(lbf·ft)	724/410 (534/302.4)		2nd : 724/410 (534/302.4	
SPINDLE		Spindle Bore mm(in) Spindle Driving Methode -		Ø91 (Ø3.6")		2nd : Ø91 (Ø3.6")	
				ps (psic)	BUILT-IN MOTOR	Elia par (pale)	
	Spindle Nose -		_	A2-8		2nd : A2-8	
	C axis Indexing A	Annle	deg		0.0001° 1st: 0.000		
	C data indexing /	(X1/Z1/Y)	mm(in)		[±150}/1,585 (27.4″/11.8″{±5.		
	Travel	(/(1/21/1)	IIIII(III)	033/3001	.=130)/1,303 (E7.4 /11.0 (=3.		
		(A/X2/Z2)	mm(in)	1,595/-/-	(62.8"/-/-)	1,540/235/1,595 (60.2"/9.3"/62.8")	
FEED	Rapid Traverse	(X1/Z1/Y)	m/min (ipm)		48/36/48 (1,890/1,417/1,890		
	Rate	(A/X2/Z2)	m/min (ipm)	30/-/- (1	1,181/-/-)	30/24/36 (1,181/945/1,4	
	Slide Type		-		LM GUIDE		
	Y Axis Structure	e	-		Cross Type		
	Speed		r/min		12,000		
MILL	Power (Max./Co	ax./Cont.) kw(HP)		22/15 (29.5/20)			
HEAD	Torque (Max./Co	ont.)	N·m(lbf·ft)	120/67.8 (88.5/50)			
	Driven Type -		-	BUILT-IN MOTOR			
	B Axis Angle deg		Rotation: 240° (±120°)/Indexing: 0.0001°				
	No. of Tools EA		EA		-	12	
TURRET	Tool Size (O.D/I.I	D)	-	-		=25/Ø40 (=1"/Ø1 1/2	
	Indexing Time		sec/step	-		0.2	
	Milling Tool Spee	ed (rpm)	r/min		-	[5,000]	
MILL TURRET	Max. Power		kW(HP)		-	[6.7 (9)]	
(OPTION)	Max. Torque		N·m(lbf·ft)		-	[27 (19.9)]	
	Туре		-		-	[BMT65]	
	Taper		-	MT #5		-	
TAIL STOCK	Туре		-	NC Servo		-	
אסטוכו	Travel		mm(in)	1,595 (62.8″)		-	
	Πο. of Tools		EA		40 [80]		
	Tool Shank Type	1	-		CAPTO C6		
٨٣٥	Max. Tool Dia. (V	w.T/w.O)	mm(in)		Ø90/Ø130 (Ø3.5"/Ø5.1")		
ATC	Max. Tool Lengt	h	mm(in)		450 (17.7")		
	Max. Tool Weigh	t	kg(lb)		12 (26.5)		
	Tool Selection M	lethod	-		FIXED ADDRESS		
ΤΑΠΚ	Coolant Tank		l (gal)		620 (163.8)		
CAPACITY	Lubricating Tank	(l (gal)	P	Axis : 3 (0.8)/Mill Head : 1.8 (0.	5)	
	Electric Power S	upply	kVA		78		
POWER SUPPLY	Thickness of Po	wer Cable	Sq		Over 70		
JUFFLI	Voltage		V/Hz		220/60 (200/50)		
	Floor Space(L×V	V)	mm(in)		5,165×3,270 (203.3"×128.7")		
MACHINE	Height		mm(in)		2,930 (115.4")		
	Weight		kg(lb)	17.000	(37,479)	18,000 (39,683)	
CNC	Controller			,300	FANUC 31i-B5 Plus	, , , , , , , , , , , , , , , , , , , ,	

Specifications []: Option

	ITEM			XM3100	XM3100S	XM3100ST
	Max. Mill Head		mm(in)		Ø660 (Ø26")	
CAPACITY	Turning Dia.	Turret	mm(in)		-	Ø410 (Ø16.1")
	Max. Turing Leng	gth	mm(in)	1,540 (60.6")		
	Bar Capacity mm(in)		mm(in)	Ø102 (Ø4") 1st: Ø102 (Ø4") 2nd: Ø81 (Ø3.2")		
SPINDLE	Chuck Size inch		12″	12" 1st:12" 2nd:10"		
	Spindle Speed r/min		3,000	3,000 1st : 3,000 2nd : 4,000		
	Spindle Power (Max./Cont.) kw(HP)		37/25 (50/33.5)	1st: 37/25 (50/33.5) 2nd: 30/22 (40/29.5)		
	Spindle Torque (Max./Cont.) N·m(lbf·ft)		1,262/1,003 (930.8/739.8)	,262/1,003 (930.8/739.8) 1st : 1,262/1,003 (930.8/739.8) 2nd : 724/410 (534/30		
	Spindle Bore mm(in)		Ø115 (Ø4.5") 1st : Ø115 (Ø4.5") 2nd : Ø91 (Ø3.6")			
	Spindle Driving Methode -			BUILT-IN MOTOR		
	Spindle Nose -			A2-11 1st: A2-11 2nd: A2-8		
	C axis Indexing Angle		deg	0.0001°	1st : 0.0001° 2nd : 0.001°	
		(X1/Z1/Y)	mm(in)	695/300{±150}/1,585 (27.4"/11.8"{±5.9"}/62.4")		
	Travel	(A/X2/Z2)	mm(in)	1,540/235/1,595 (60.2"/9.3"/62.8")		
FEED	Rapid Traverse	(X1/Z1/Y)	m/min (ipm)	48/36/48 (1,890/1,417/1,890)		
TEED	Rate	(A/X2/Z2)	m/min (ipm)	30/-/- (1,575/-/-) 30/24/36 (1,575/945/1,4		
	Slide Type		-	LM GUIDE		
	Y Axis Structure -			Cross Type		
MILL HEAD	Speed r/min			12,000		
	Power (Max./Cont.) kw(HP)			22/15 (29.5/20)		
	Torque (Max./Cont.) N·m(lbf·ft)		120/67.8 (88.5/50)			
	Driven Type -		BUILT-IN MOTOR			
	B Axis Angle deg		Rotation: 240° (±120°)/Indexing: 0.0001°			
TURRET	Πο. of Tools EA		- 12			
	Tool Size (O.D/I.D)		-		= 25/Ø40 (= 1"/Ø1 1/2	
	Indexing Time sec/step		-		0.2	
MILL TURRET (OPTION)	Milling Tool Speed (rpm) r/min		-		[5,000]	
			kW(HP)	-		[6.7 (9)]
			N·m(lbf·ft)	_		[27 (19.9)]
	Type -			-	[BMT65]	
TAIL STOCK	Taper -		MT #5		_	
	Туре		_	NC Servo		-
	Travel mm(in)		1,595 (62.8″)	_		
ATC	Πο. of Tools EA				40 [80]	
	Tool Shank Type -			CAPTO C6		
	Max. Tool Dia. (W.T/W.O) mm(in)			Ø90/Ø130 (Ø3.5″/Ø5.1″)		
	Max. Tool Length mm(in)			450 (17.7")		
	Max. Tool Weight kg(lb)			12 (26.5)		
	Tool Selection Method -			FIXED ADDRESS		
ΤΑΠΚ	Coolant Tank	Coolant Tank (gal)		620 (163.8)		
CAPACITY	Lubricating Tank		l (gal)	Axis : 3 (0.8)/Mill Head : 1.8 (0.5)		
POWER SUPPLY	Electric Power Supply kVA		78			
	Thickness of Power Cable Sq		Over 70			
	Voltage V/Hz		220/60 (200/50)			
MACHINE	Floor Space(L×W) mm(in)		5,165×3,270 (203.3″×128.7″)			
	Height mm(in)		2,930 (115.4")			
	Weight kg(lb)		17,000	(37,479)	18,000 (39,683)	
cnc	Controller		-		FANUC 31i-B5 Plus	

CONTROLLER

FANUC 31i-B5 Plus

Controlled axis / Display	0 avic (Y1 V1 71 D1 V2 72 A C1 C2)		
Control axis Simultaneously controlled axis	9 axis (X1, Y1, Z1, B1, X2, Z2, A, C1, C2) Max. 5 axis		
Simultaneousig controlled axis	X, Z, Y, B axis : 0.001 mm (0.0001 inch)		
Least setting Unit	C, B axis: 1 deg [0.001] deg		
Least input increment	X, Z, Y, B axis : 0.001 mm (0.0001 inch)		
Inch / Metric conversion	C, B axis : 1 deg [0.001] deg G20 / G21		
Machine lock	All axis		
Stored stroke check 1	7/II GAIS		
Mirror image			
Follow-up			
Backlash compensation	+/- 0~9999 pulse (Rapid traverse / Cutting feed)		
Position switch	trapia traverse / catting reco/		
Pitch error compensation			
LCD/MDI	15" color LCD		
Operation			
DNC operation by the memory card			
Program restart			
Program check function	Dry run, Program check		
Single block			
Feed function			
Manual jog feed	Rapid, Jog, handle		
Manual handle	x1, x10, x100 pulses		
Feedrate override	0~200% (10% Unit)		
Jog feed	0~5,000 mm/min (197 ipm)		
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, 0~9999.9999sec		
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		
Optional block skip	l ea		
Max. programmable dimensions	+/- 9999.9999" (+/- 8digit)		
Program number / Sequence number	04 / N8 digit		
Absolute/incremental command	G90 / G91		
Plane selection Work coordinate preset	G17, G18, G19 G52~G59		
Work coordinate preset Work coordinate system	G54.1 P1~P48 (48 pair)		
Manual absolute	"On" fixed		
Programmable data input	G10		
Sub program call	10 Step		
Custom macro	2004		
Addition of custom macro	#100~#199, #500~#999		
Work coordinate Command	G15, G16		
Work coordinate Interpolation	612.1, 613.1		
Helical interpolation	G07.1		
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			
Al contour control(AICC) II	1,000 Block		
Conversational Program	Smart Guide-i		

Sub / Spindle functions			
Miscellaneous function	M 4 digit		
Spindle speed command	S 5 digits, binary output		
Spindle speed override	0% ~ 150% (10% Unit)		
Spindle orientation			
Rigid tapping			
Tool functions / Tool compensation			
Tool function	Max.T3/T4 digits		
Cutter compensation C	G40~G42		
Tool length compensation	G43, G44, G49		
Tool length measurement	Z axis INPUT C		
Tool offset pairs	400 pair		
Tool life management			
Data input / Output & Editing functions			
Input/output interface	Memory card		
Embeded Ethernet	100 Mbps		
Part program storage length	4M (1,024m)		
Registered programs	100 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			
Auto Data Backup			
Option			
Additional work coordinate system	G54.1 P1~P300 (300조)		
Single direction positioning	G60		
Scaling			
Manual handle interupt			
Data server	1 GB		
High speed ethernet	100 Mbps		
Tool load monitoring function	HWTM (Mounted)		



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