



# 2000i

High-speed & Small 5-axis Machining Center

**HYUNDAI WIA** 5-axis Machining Center



## THE WORLD BEST

XF2000i the World's Top-Tier Horizontal Machining Center At Germany's most prestigious **MM Awards ceremony**, XF2000i won best machine in the milling segment This result says it all.





#### **Epiloque**

Staffed with the world's top caliber researchers, the Hyundai WIA Europe R&D Center developed the **XF2000i**, a **simultaneously controlled** 5-axis horizontal machining center.

The R&D Center in Europe opened its doors in Germany in 2014, with the top priority emphasized on the execution of surprise and delight to the company's customers through the highest level of productivity and product quality.

Though the company has accomplished many great feats, its most notable achievement was receiving **the highest honor in the milling segment at the MM Awards** held in Hanover, Germany in 2017. The award symbolized the company's commitment to the global machine tool market, and in particular, the 5-axis technology.



**XF2000i**, the world's top-tier 5-axis horizontal machining center, is the creation of the Hyundai WIA Europe R&D Center. With an integrated bed & column structure, it not only provides outstanding structural stability, but also delivers unrivaled productivity with the world's top-level acceleration/deceleration 1.2G by giving the linear feed axis extraordinarily powerful feed capabilities

- Table Size : **Ø260 mm (Ø10.2")** 

- Max. Load Capacity: 50 kg (110 lb)

- Spindle Speed: 24,000 rpm

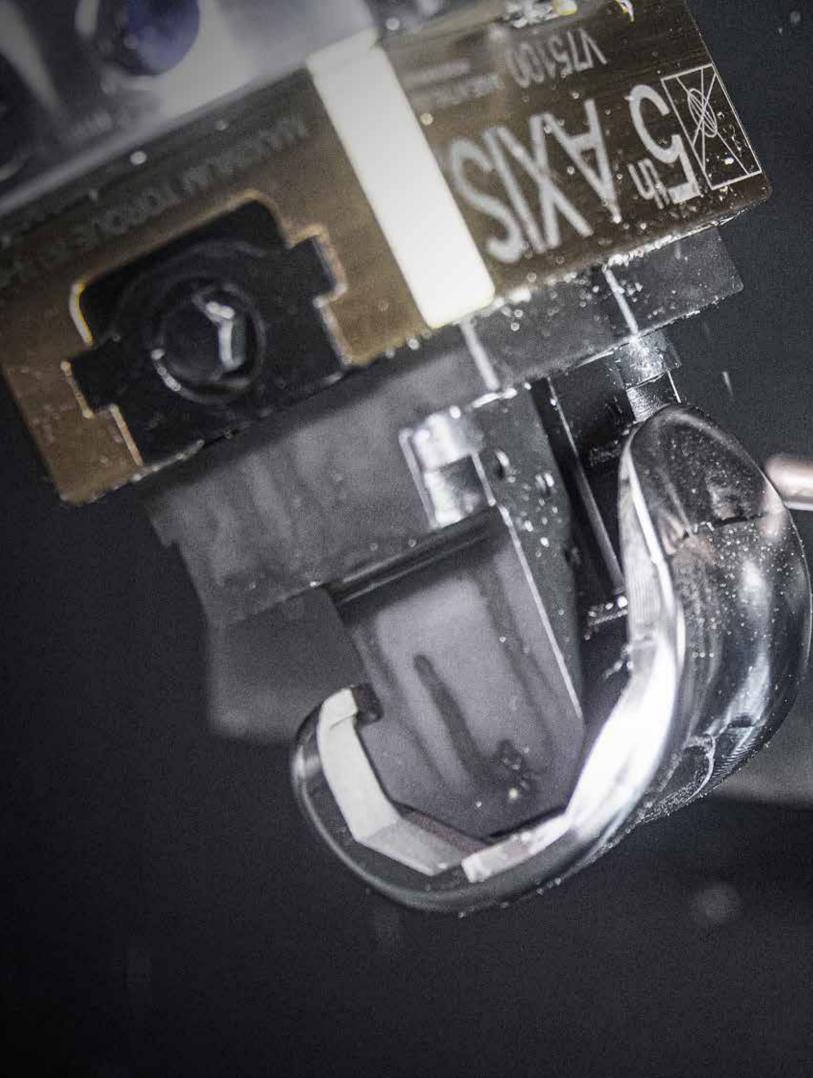
- Spindle Output (Max./Cont.): 12.5/8 kW (16.8/10.7 HP)

- No. of Tools: 20 EA (Pick-UP) [40 EA (Chain)]

- Travel (X/Y/Z) 300/300/200 mm (11.8"/11.8"/7.9")

- Rapid Traverse Rate (X/Y/Z) 50/50/50 m/min (1,969/1,969/1,969 ipm)







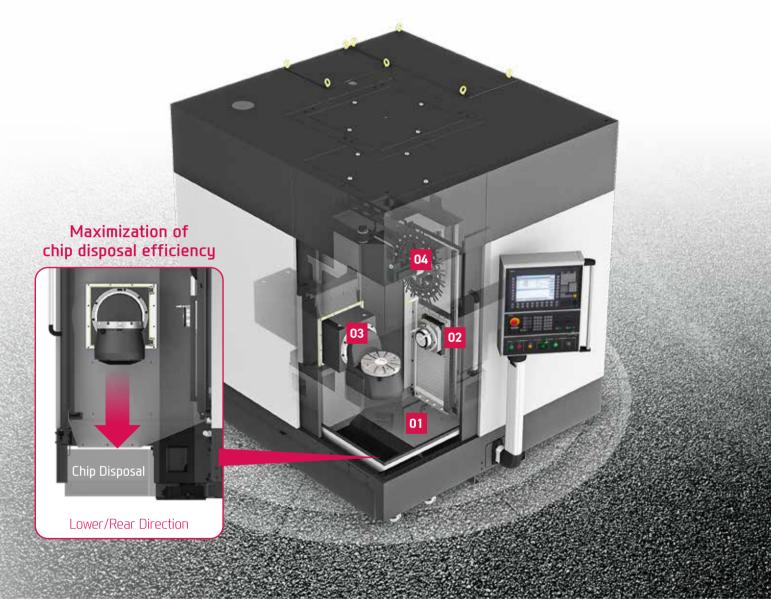
The XF2000i is an optimized solution for small composite composite processing with the highest speed and precision in its class.

To offer the company's customers the highest level of productivity, it is equipped with an efficient structure, backed by a monoblock type bed and a cantilever type DDM table.



# XF2000i

Cutting Edge Technology



#### High Precision & Speed 5-Axis Machining Center

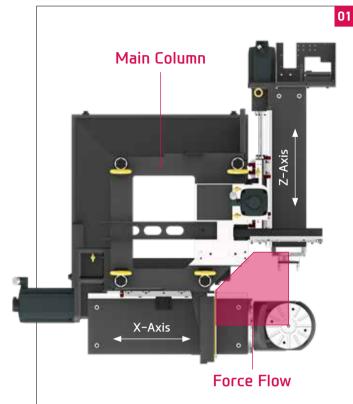
50/50/50 m/min (1,969/1,969/1,969 ipm)
Rapid Traverse Rate (X/Y/Z-axis)

300/300/200 mm (11.8"/11.8"/7.9") 240/360 deg Rotation Angle (A/C-axis)

120/120 Rotation Speed (A/C-axis)

02

## **Basic Features**



#### One-piece Bed & Column

The XF2000i maximizes the dynamic rigidity by designing bed and column as an integral type, and improves the structural stability by concentrating the flow force between the work space and the tool.

#### Linear Scale (Std.)

Applied linear scale as a standard for high-precision mahining through the compensation of thermal displacement.



#### Built-In Spindle

Designed with a built-in motor structure, the spindle provides maximum acceleration and deceleration while suppressing vibration and heat that can occur during the high-speed rotation. This leads to the excellent performance for high precision machining.



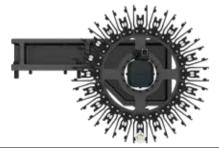
#### DDM Tilting Rotary Table

Precise 5-axis control can be done simultaneously by adopting DDM table, ensuring world-class travel speed to enhance productivity.



#### Pickup-type Magazine

Developed as a pickup-type magazine with a relatively simple structure, automatic tool loading device is unnecessary, which is excellent in maintenance.



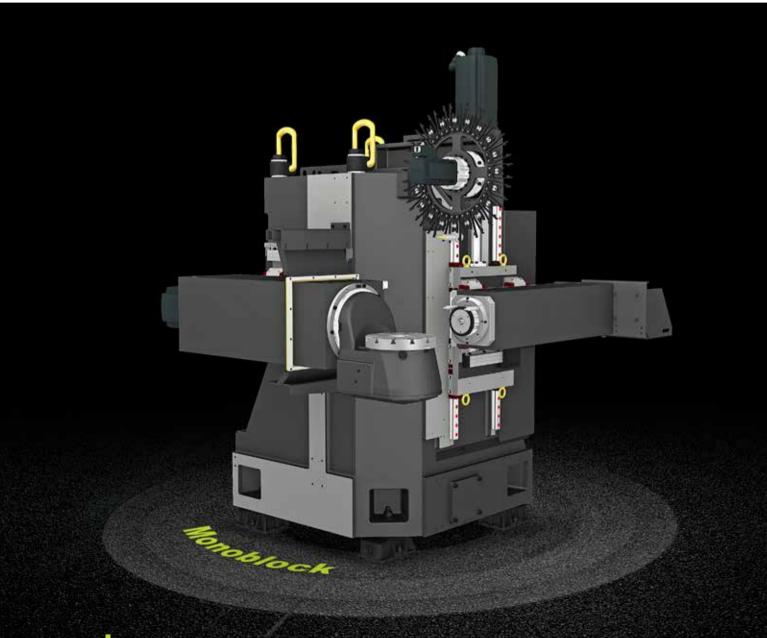
04

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# Basic Structure

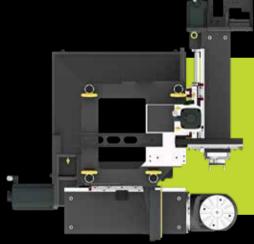
High-Precision & Speed 5-Axis Machining Center



XF2000i, a compact size high-speed, high-precision 5-axis machine developed by Hyundai WIA Europe R&D Center based in Germany, has optimized its structure to maximize its productivity. To complete the company's efforts toward a robust design, it applied a mechatronic simulation technique from initial design stage to maximize the mechanical performance of the machine tool.

The strength and rigidity of the base body structure are
a direct link to the precision of a machine tool.

HYUNDAI WIA's advanced body design coupled with an integrated bed/column structure is the foundation of machining perfection.



- > A monoblock type high rigidity, integrated bed & column
- > Ensuring a robust design through mechatronics simulations
- > An optimized casting rib structure for high rigidity
- > The maximization of operational efficiency by horizontally arranging the main spindle and the table
- > The bed structure designed to optimize operators' accessibility



#### High-Speed Roller LM Guideway

**Roller LM guide** with high acc./deceleration and rigidity has applied to reduce non-cutting time.

• Acc./Deceleration Speed : 1.26



#### **High-Precision Linear Scale** (Standard)

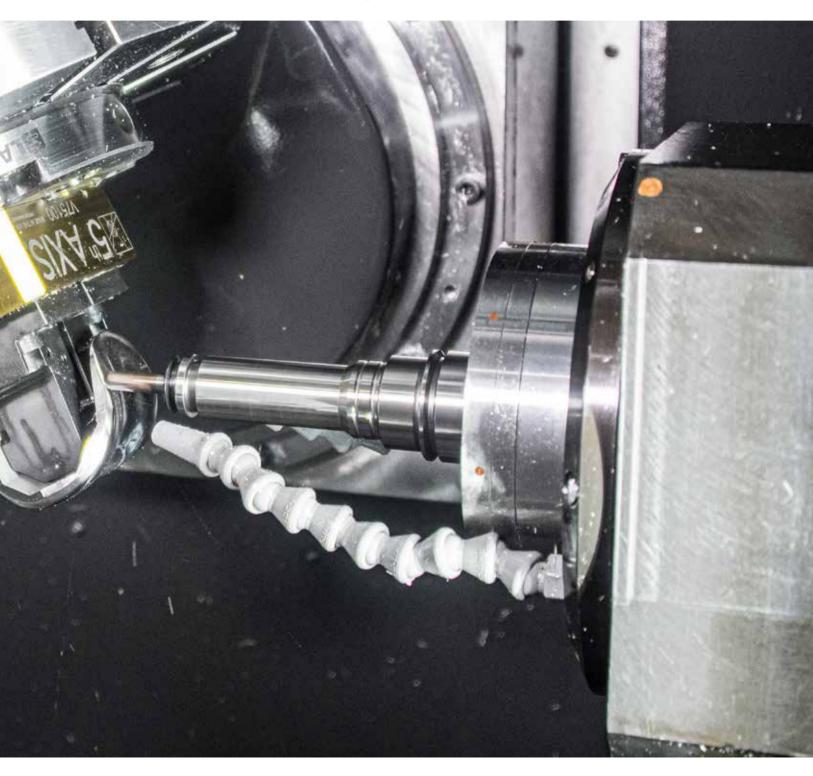
The XF2000i are equipped with linear scales on all axis providing high precision positioning accuracy and compensates for ball screw thermal displacement ensuring extremely precise machining.

In addition, the **absolute type linear scale** is installed in close proximity to the ball screw of each axis. During operation an added benefit is not being require to home the machine.

XF2000i

# RAM Type Spindle

Long Lasting High Accuracy & Excellent Performance 5–Axis Machining Center



# High-Precision Built-in Spindle By using ultra precision angular ball bearings,

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 tool lock system, the machining stability has increased.

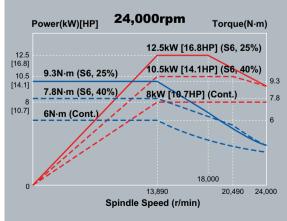
#### Spindle Cooling

Spindle temperature is controlled by the use of a spindle oil chiller. This ensures consistent spindle temperature which minimizes thermal displacement.

#### **HSK Tool Holder**

HSK tool holder is untilized for precise positioning with less expansion in the spindle taper during high speed rotation. This ensures an excellent level of precision for die mold machining.







#### Spindle Thru 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

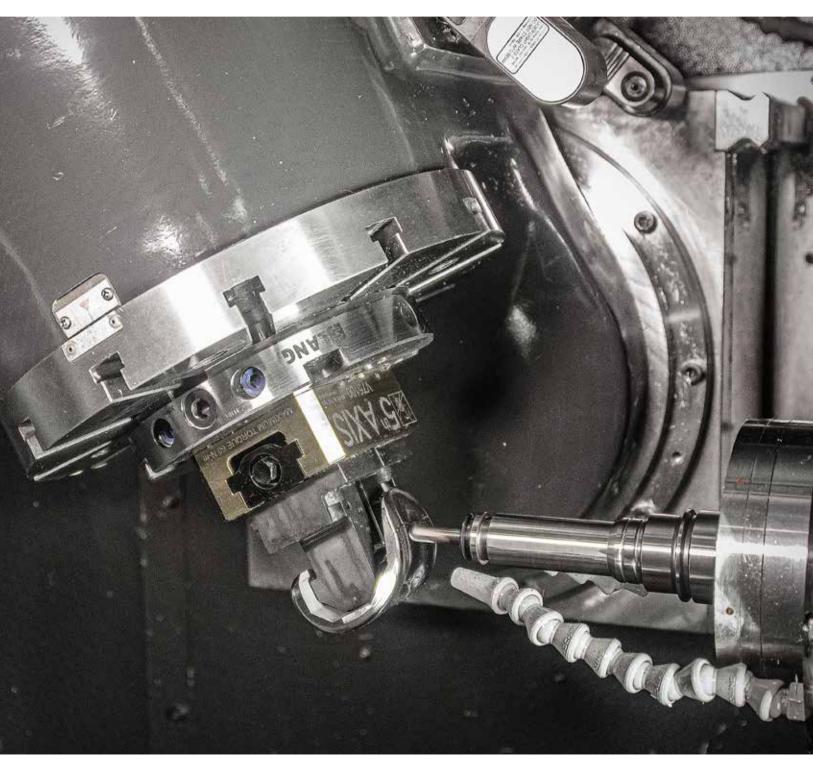
24,000 rpm

12.5/8 9.3/6 **kW (16.8/10.7 HP)**Spindle Power (Max./Cont.)

**N·m**Spindle Torque (Max./Cont.)



# Magazine & Table Super Quality & Productivity 5 Axis Machining Center



#### ATC & Tool Magazine

Automatic tool loading device with unnecessary pick-up type magazine achieves best-in-class tool change time (chip to chip) of 4.5 seconds and excellent maintainability.

❖ 40 Tool Chain type Magazine Option

20 [40] ea no. of tools
4.5 [5.0] sec Tool change time (C-C)

Max. Tool Dia. : Ø50 (Ø2")

• Max. Tool Length: 150 mm (5.9")



#### 5-axis DDM Table

Precise 5-axis control can be done simultaneously by adopting DDM table, ensuring world-class travel speed to enhance productivity.

• Table Size : **Ø**260 (**Ø**10.2")

• Load Capacity : 50 kg (110 lb)

• Tilting Angle (A axis): 240° (+120°~-120°)

Rotation Speed (A/C axis): 120/120 rpm

#### A/C-axis Rotary Scale

High quality machining is achieved by scale built-in YRT bearing which is applied to the A/B-axis of rotary table.



# FAST & DYNAMICS & CONVENIENCE

Highest level of acceleration and deceleration (FAST): Acc./Dec. time-1.2G

High performance built-in spindle (DYNAMIC)

High visibility programming and accessibility through its ergonomic design (CONVENIENCE )

Those are the values that the XF2000i pursues.





# SIEMENS Controller

The Powerful CNC Platform for Machine Tools



# **SIEMENS**

# DIFFERENTIATED CAPABILITIES, INTEGRATED ENGINEERING SEAMLESSLY INTERLINKED

SIEMENS 840D sI is the latest generation CNC controller with the capability of running up to 20 axis on a single machine.

The powerful 80-bit controller reduces processing time and increases productivity. It supports the preparation of a variety of programs and setup functions for ease of operation.





#### **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



#### Real Time 3D Simulation

- Real time 3D simulation is possible
- 2D simulation offered standard
- Possible to confirm PIC program thru simulation



#### Easy Screen

- Create an easy screen
- Insert text and pictures
- 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





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

#### Standard & Optional

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

☆

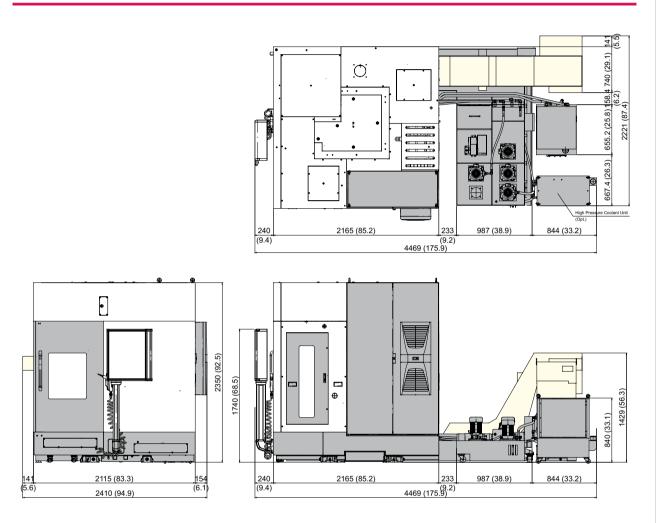
45bar (653 psi) 70bar (1,015 psi)

100bar (1,450 psi) Customized

Hyd. unit for fixture

Spindle		XF2000i	ETC		XF2000i
24,000rpm	Built-in	•	Tool box		•
Spindle cooling system	WATER Chiller	•	Customized color	Need for Munsel No.	☆
ATC			CAD & CAM software		☆
ATC 1	20EA (Pick-UP Type)	•	Total splash guard	Total splash guard	
ATC extension	40EA (Chain Type)	0	Electric Device		
Tool shank type	HSK E40	•	Call light & buzzer	3color : ■ ■ B	•
Tool weight	1.5kg (3.3 lb)	•	Work light		•
Servo motor drive magazine		•	Electric cabinet light		0
Table, APC & Pallet			Front door interlock		•
T–slot type pallet		•	Side door interlock (Selected side auto door)		0
Impeller type pallet		☆	Remote MPG		•
Coolant System			3 axis MPG		0
Std. coolant (Nozzle+Bed)		•	Transformer (220V/380V)	40/10kVA	•
Shower coolant (Niagara)		0	Spindle load meter	LED	0
	20bar (290 psi)	0	Spindle speed meter	LED	0
Through spindle coolant {25 \( \ext{l} \) (6.6 gal)}	30bar (435 psi)	0	Work counter	Digital	0
12.3 £ (0.0 gal)}	70bar (1,015 psi)	0	Total counter	Digital	0
Gun coolant		0	Tool counter	Digital	0
Air gun		0		6ea	0
Spindle air blow		0	Multi tool counter	9ea	0
Tool measuring air blow			Auto power off		
(Selected Tool measuring Device)		0	Splash memory card		
Coolant cooling device		0	Back up Module for Black out		0
Thru MQL device (without MQL)		☆	AVR (Auto Boltage Regulator)		
Air blow (for automation)		☆	Measuring Device		
Power coolant system (for automat	tion)	☆		FESTO	•
Chip Disposal			Air Zero (Selected impeller table)	SMC	0
	470 £ (124 gal)	•	Work Measuring Device		0
Coolant tank	-High Level			Touch	
Chip conveyor (Hinge/Scraper)	Rear		TLM	Laser	0
	Standard		Tool Broken Detective Device		0
	(180 ℓ [47.5 gal])	0	Linear Scale	X/Y/Z Axis	•
	Swing	0	Rotary Scale	A/C Axis	•
	(200 £ [52.8 gal])			ant Level Sensor	
Chip wagon	Large Swing (290 £ [76.6 gal])	0	(Only for Chip Conveyor, Bladder Type)		<b>☆</b>
			Environment		
	Large Size		Air Conditioner		•
	(330 £ [87.2 gal])	0	Dehumidifier		0
	Customized	☆	Oil Mist Collector		0
Controller		Oil Skimmer (Only for Chip Conveyor)		г)	0
SIEMENS 840DsI		•	MQL (Minimal Quantity Lubrication)		
S/W			Fixture & Automation		☆
Automatic CAM (HW-ACAM)		-	Auto door	Side	0
Dialogue Program (HW-DPRO)		o (3+2 axis support)	Sub operation pannel		
DNC software (HW-eDNC)		0		1 Axis	0
Machine Monitoring System (HW-N	MMS Cloud)		Control of Additional Axis	2 Axis	0
Machine Monitoring System		*	External M code 4ea		
(Customer Installation : HW-MMS E	(dge)	☆	Automation interface		0
Smart Guide-i : FANUC		-		4 contact	0
Smart S/W		☆	I/O extension (In & out)	16 contact	0
			Hyd. Device		
			Std. hyd. unit	100bar (1,450 psi) / 4 l (1 gal)	•

External Dimensions unit: mm (in)



Tool Shank unit: mm (in)

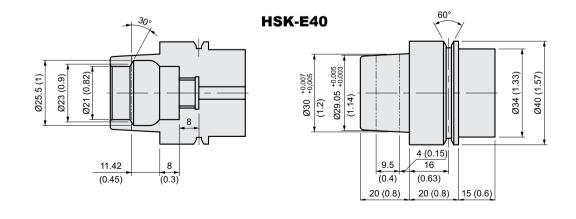
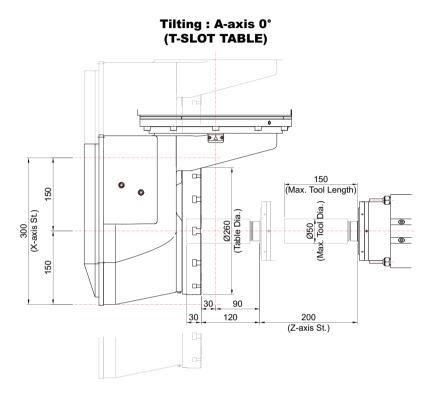


Table Dimensions

unit: mm (in)



# (A-AXIS CENTER) A-AXIS TILTING ANGLE ±120° 77.20° 210 110 30 290

Specifications [ ]: Option

MODEL				XF2000i	
	Table Size		mm(in)	Ø260 (Ø10.2″)	
TABLE	Maximum Load Capacity kg(lb)			50 (110)	
INDLL	Max. Macining Height		mm(in)	210 (8.3″)	
	Table Driving Method mm(in)			DIRECT DRIVE MOTOR	
	Spindle Taper -			HSK-E40	
	Spindle RPM	dle RPM r/min		24,000	
SPINDLE	SPINDLE Spindle Power Output (Max./Cont.) kW(HP)			12.5/8 (16.8/10.7)	
	Spindle Torque (Max./Cont.) N·m			9.3/6	
	Spindle Driving Method -			BUILT-IN	
	Travel	X/Y/Z Axis	mm(in)	300/300/200 (11.8″/11.8″/7.9″)	
	Rotation Angle A/C Axis d		deg	240° (-120°~+120°)/360°	
	Distance from Table Top to SP. Nose mm(in)			-150 ~ 150 (-5.9 ~ 5.9)	
FEED	Rapid Traverse Rate	X/Y/Z Axis	m/min(ipm)	50/50/50 (1,969/1,969)	
	Rotation Speed	A/C Axis	r/min	120/120	
	Feed Axis Acc./Dec. Speed			All-axis 1.2	
	Slide Type -			ROLLER GUIDE	
	Number of Tools ea			20 : Pick up Type [40 : Chain Type]	
	Tool Shank		-	HSK-E40	
	Max. Tool Dia. (W/T A	djacent Tool)	mm(in)	Ø50 (2″)	
ATC	Max. Tool Length		mm(in)	150 (5.9″)	
	Max. Tool Weight		kg(lb)	1.5 (3.3)	
	Tool Change Time	C-C	sec	4.5 : Pick up Type [5.0 : Chain Type]	
	Tool Selection Method		-	FIXED	
	Coolant Tank (gal)		l (gal)	470 (124)	
TANK CAPACITY	Lubricating Tank		l (gal)	2 (0.5)	
	Hydraulic Tank		l (gal)	3.9 (1)	
	Electric Power Supply		KVA	40	
POWER SUPPLY	Thickness of Power Ca	able	mm²	25 (AC 380V), 35 (AC 220V)	
301121	Voltage		V/Hz	380,220/50,60	
	Floor Space (L×W) mm(in)			2,410×4,469 (94.9″×175.9)	
MACHINE	Height mm(in)			2,350 (92.5)	
Weight kg(lb)			kg(lb)	6,000 (13,228)	
CNC	Controller		-	SIEMENS 840D sI	

#### CONTROLLER

#### SIEMENS 840D sl Standard

Controlled axis / Display / Accuracy Compe	nsation
Control axis	7 axis (X1, Y1, Z1, A1, C1, WR, AD)
Simultaneously controlled axis	Max. 5 axis
	X, Y, Z axis : 0.001 mm (0.0001 inch),
Least setting Unit	B, C, A axis : 0.001 deq
	X, Y, Z axis : 0.001 mm (0.0001 inch),
Least input increment	B, C, A axis: 0.001 deg
Inch / Metric changeover	G70 (inch) / G71 (metric)
Interlock	All axis / Each axis
Machine lock	All axis
Backlash compensation	All data
Pitch error compensation	
Feedforward control (Torque control)	
· · · · · · · · · · · · · · · · · · ·	12 : I CD
LCD / MDI	12 inch color LCD
Keyboard	ABCD Type
Stored stroke check	Over travel
Operation	
Automatic operation (Memory)	
MDI operation	
Program restart	
Program check function	Dry run / Program check / Machine lock
Single block	
Block search	Block search
Reposition	
Working area limit	Working area limitations
Interpolation functions	
Positioning	G00
Linear interpolation	G01
	Circular interpolation CW (G02)
Circular interpolation	Circular interpolation CCW (G03)
	Single block exact stop (609)
Exact position stop	Exact stop G60 (G601, G602, G603)
Dwell	Dwell (604)
DWell	
Reference position return	Return to reference point
	Return to 2nd reference point
Helical interpolation	Des wife a setimal Desline
Spline interpolation	Non-uniform rational B splines
Compressor (Improving machining quality)	Compcad / Compcurv (Cycle 832)
Feed function / Acc. & Dec. control	8 111
	Rapid traverse
Manual feed	Jog
	Manual handle
	Reference position return
Cutting Feed command	Direct input F code
Feedrate override	0 ~ 120%
Rapid traverse override	1%, 25%, 50%, 100%
Feed per minute	G94
Feed per revolution	G95
Look-ahead block	3,000 block (With Mdynamics)
Program input	
	G291(ISO)/G290 (SIEMENS)
ISO correspondence	(ISO G Code system-A)
Optional block skip	8 ea (0~7)
Absolute / Incremental program	690 / 691
Program stop / end	M00, M01 / M02, M30
Maximum command unit	± 999,999.999 mm, ± 99,999.9999 inch
Plane selection	X-Y: G17, X-Z: G18, Y-Z: G19
	G54 ~ G57, G505~G549
Workpiece coordinate system	G500 (Basic frame – setable zero offset
,	G53 (Work offset non modal)
	G153 (basic frame non modal)
Sub program call	16 folds nested
	STOPRE
G code preventing buffering	STOTAL
G code preventing buffering Drilling/Milling cycle	with programing support

Auxiliary function / Spindle speed function		
Auxiliary function	M Code 4 digit	
Spindle speed function	S Code 5 digit	
Spindle override	0% ~ 120%	
Spindle orientation	SPOS	
Rigid tapping		
Autometic mode Interchange	Spindle / Axis mode	
Constant surface speed control	G96, G97	
Spindle speed limitation	LIMS	
Tool function / Tool compensation		
Tool function	Tool number & Tool name	
Tool life management		
Tools in tool list	1,500 ea	
Cutting Edges in tool list	3,000 ea	
Tool radius compensation	ISO (G40, G41, G42)	
Geometry / Wear compensation		
Measurement of tool length		
Tool management function		
Editing function		
Part program storage size	10MB	
External Strorage devices	USB	
Background editing		
Extended part program editing	Copy, move and change of NC program	
Memory card program edit		
Data input / output & Interface		
I/O interface	USB memory interface	
I/O interface	USB memory interface Embedded Ethernet memory interface	
Screenshot		
Screenshot Setting, display and diagnosis		
Screenshot Setting, display and diagnosis Self-diagnosis function	Embedded Ethernet memory interface	
Screenshot Setting, display and diagnosis Self-diagnosis function History display & Operation		
Screenshot Setting, display and diagnosis Self-diagnosis function History display & Operation Run hour / Parts count display	Embedded Ethernet memory interface	
Screenshot Setting, display and diagnosis Self-diagnosis function History display & Operation Run hour / Parts count display Regular maintenance screen	Embedded Ethernet memory interface	
Screenshot  Setting, display and diagnosis  Self-diagnosis function  History display & Operation  Run hour / Parts count display  Regular maintenance screen  Actual speed display	Embedded Ethernet memory interface	
Screenshot  Setting, display and diagnosis  Self-diagnosis function  History display & Operation  Run hour / Parts count display  Regular maintenance screen  Actual speed display  Display of spindle speed / T code	Embedded Ethernet memory interface	
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Screenshot  Setting, display and diagnosis  Self-diagnosis function  History display & Operation  Run hour / Parts count display  Regular maintenance screen  Actual speed display  Display of spindle speed / T code  Graphic display  Operating monitor screen  Multi language display  LCD Screen Saver	Embedded Ethernet memory interface  Alarm & Operator message & Operation  Spindle / Servo load etc.  Support 7 languages Chinese, English, French, German, Italian, Korean, Spanish	
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Screenshot  Setting, display and diagnosis  Self-diagnosis function  History display & Operation  Run hour / Parts count display  Regular maintenance screen  Actual speed display  Display of spindle speed / T code  Graphic display  Operating monitor screen  Multi language display  LCD Screen Saver  Function  ShopMill	Embedded Ethernet memory interface  Alarm & Operator message & Operation  Spindle / Servo load etc.  Support 7 languages Chinese, English, French, German, Italian, Korean, Spanish  Screen saver & Motion sensing	
Screenshot  Setting, display and diagnosis  Self-diagnosis function  History display & Operation  Run hour / Parts count display  Regular maintenance screen  Actual speed display  Display of spindle speed / T code  Graphic display  Operating monitor screen  Multi language display  LCD Screen Saver  Function  ShopMill  3D simulation	Embedded Ethernet memory interface  Alarm & Operator message & Operation  Spindle / Servo load etc.  Support 7 languages Chinese, English, French, German, Italian, Korean, Spanish  Screen saver & Motion sensing	
Screenshot  Setting, display and diagnosis  Self-diagnosis function  History display & Operation  Run hour / Parts count display  Regular maintenance screen  Actual speed display  Display of spindle speed / T code  Graphic display  Operating monitor screen  Multi language display  LCD Screen Saver  Function  ShopMill  3D simulation	Embedded Ethernet memory interface  Alarm & Operator message & Operation  Spindle / Servo load etc.  Support 7 languages Chinese, English, French, German, Italian, Korean, Spanish  Screen saver & Motion sensing	
Screenshot  Setting, display and diagnosis  Self-diagnosis function  History display & Operation  Run hour / Parts count display  Regular maintenance screen  Actual speed display  Display of spindle speed / T code  Graphic display  Operating monitor screen  Multi language display  LCD Screen Saver  Function  ShopMill  3D simulation  Real time simulation	Embedded Ethernet memory interface  Alarm & Operator message & Operation  Spindle / Servo load etc.  Support 7 languages Chinese, English, French, German, Italian, Korean, Spanish  Screen saver & Motion sensing	

#### **GLOBAL NETWORK**



#### **HEADQUARTER**



#### R&D Center/Factory

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#### Overseas Sales Team /R&D Center

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#### **EUROPE**



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