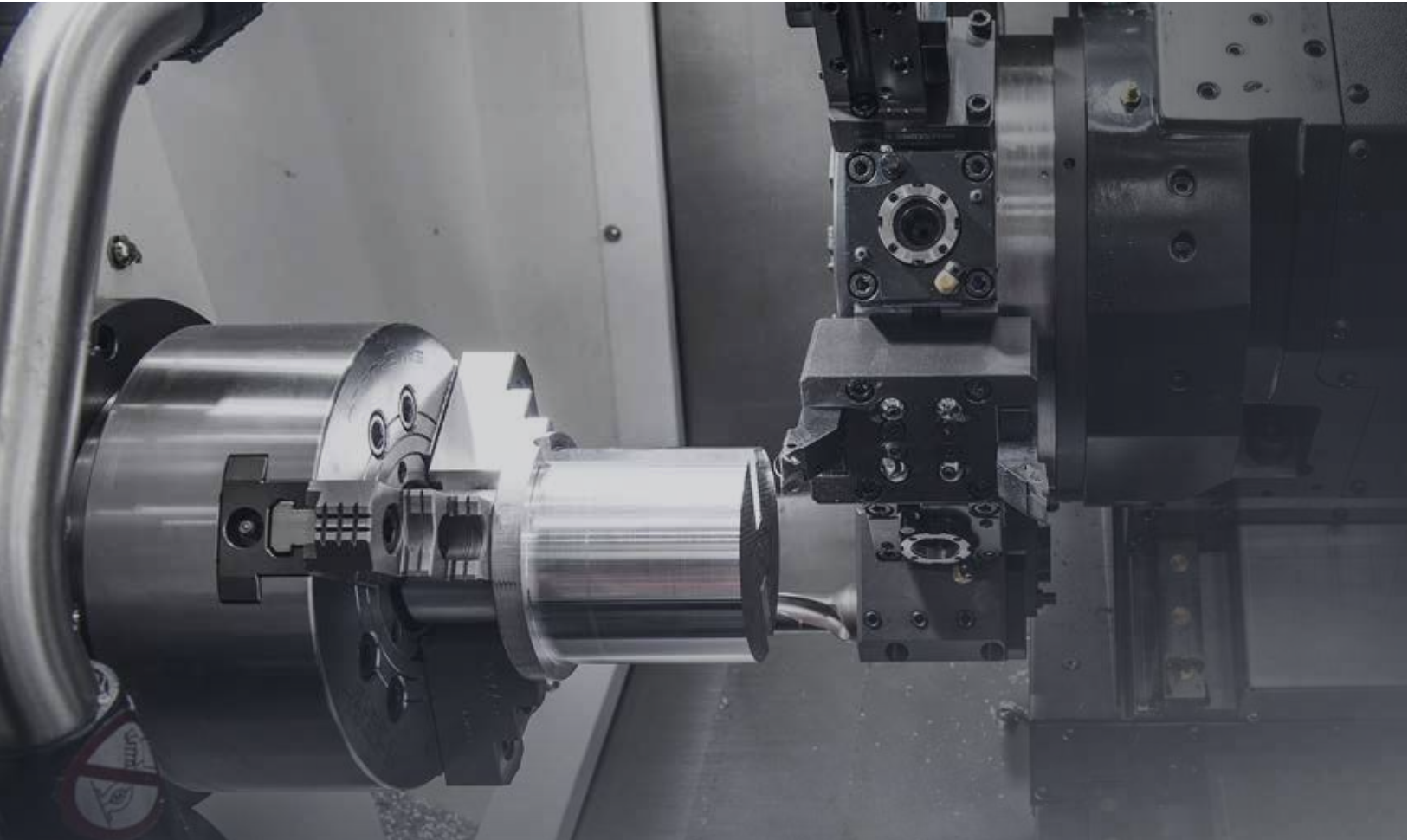


SE Y Series

SE2200YA/LYA/LSYA | SE2200Y/LY/LSY

HYUNDAI WIA Y-Axis Turning Center

www.wardcnc.com



www.wardcnc.com

Technical Leader

The CNC Turning Center SE-Y Series, designed with HYUNDAI WIA's engineering expertise to maximize productivity by enhancing rigidity and accuracy of machining.

ITEM	Main Chuck		Sub Chuck	Bed (Z-Axis Travel)		Mill Turret	Tail Stock
	6"	8"	5"	340mm (26.8")	560mm (32.7")	BMT45	MT#4
SE2200YA	●			●		●	○
SE2200LYA	●				●	●	●
SE2200LSYA	●		●		●	●	
SE2200Y		●		●		●	○
SE2200LY		●			●	●	●
SE2200LSY		●	●		●	●	

● : Standard ○ : Option

SE Y Series

Excellent Machining Performance, Y-axis CNC Turning Center

- 30° slanted one-piece bed structure with high rigidity
- Stabilized unit structure to minimize thermal displacement
- Integrated processing through synchronized control of Main/Sub spindle
- Multi-tasking operation with wedge type Y-axis BMT45 turret
- Excellent rapid traverse rate (X/Y/Z) : 30/10/36 m/min (1,181/394/1,417 ipm)
- Ergonomic design for convenient access to chuck and tool

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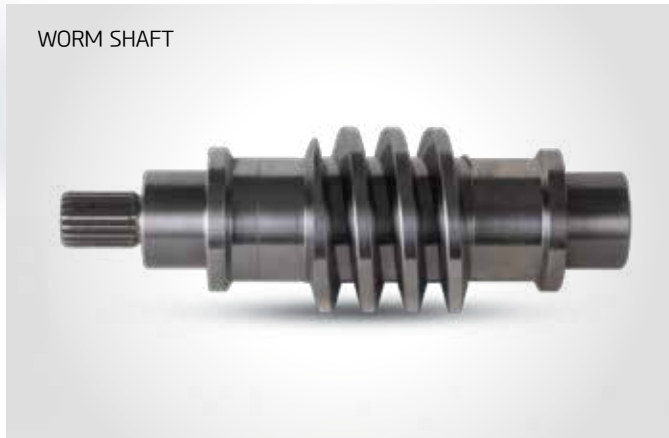


Y-AXIS TURNING CENTER



APPLICATIONS & PARTS

WORM SHAFT



Reduced machining time by multi-tasking operation

SE-Y Series with Y-axis makes it possible to work high-valued product with integrated processing using sub spindle and various rotary tools in short time.

WHEEL
HUB



COOLING
ADAPTER



HUB
SHAFT



DRIVE
GEAR



01 BASIC STRUCTURE

Which Can Cover All Machining Process with Only One Initial Setting

Mill Turret

- BMT45 (12 [24] Station)
- 6,000 r/min
- Collet Size : ER20 { $\varnothing 13$ ($\varnothing 0.51$ "')}

Sub Spindle

- 5" / 6,000 r/min
- C-Axis Control : 0.001°

High Precision Spindle

- Integral body & heat dissipating RIB structure.
- SE2200YA Series (6") : 6,000 r/min
- SE2200Y Series (8") : 4,500 r/min
- C-Axis Control : 0.001°



Hydraulic NC Tail Stock with Positioning Control (Std. 'L')

The NC tail stock applied to SE2200 series is available to travel separately from the turret so as to achieve "increase in convenient of use" and "shortening of cycle time".

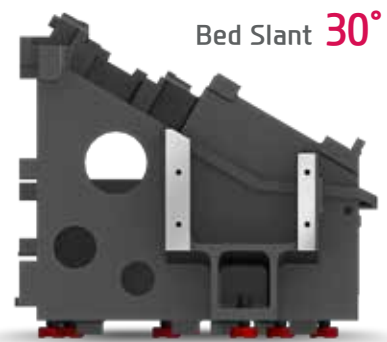
REDUCTION OF NON-CUTTING TIME BY FAST RAPID SPEED

ALL-IN-ONE TYPE OF BED

Optimal Structural Analysis

Structural analysis was applied to the design of the machine to increase the tool post body and reduce the machine's height so as to maintain the bed's dynamic rigidity even during high-speed machining.

In addition, the SE-Y Series bed slope is pitched at 30 degrees to ensure more stable machining.



Floor Space (L×W)

SE2200YA	SE2200Y	SE2200LYA/LSYA/LY/LSY
2,210×1,730 mm (87"×68.1")	2,280×1,730 mm (89.8"×68.1")	2,960×1,730 mm (116.5"×68.1")

GUIDEWAY

High-Speed Roller LM Guideway

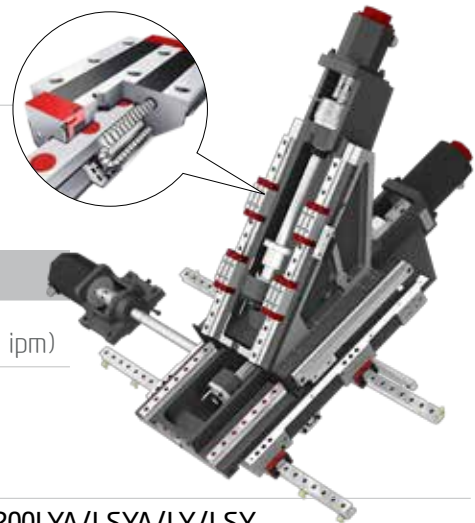
Linear roller guideways are applied to reduce non-cutting time and bring high rigidity.

Rapid Traverse Rate (X/Z/ZB)

30/10/36/15 m/min (1,181/394/1,417/591 ipm)

Travel (X/Y/Z)

SE2200YA/Y	SE2200LYA/LSYA/LY/LSY
210/110/340 mm (8.3"/4.3"/13.4")	210/110/560 mm (8.3"/4.3"/22")



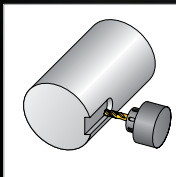
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02 Y-AXIS FUNCTION

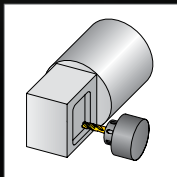
The Y-Axis Function, Cutting for Complex Shaped Work-piece

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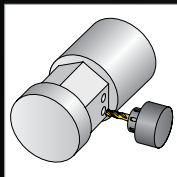
HIGH PERFORMANCE Y-AXIS



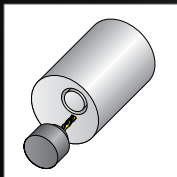
Keyway Milling



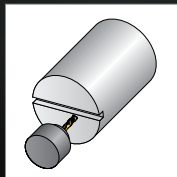
Multi-sided machining



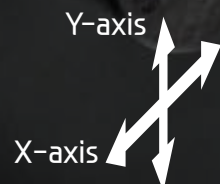
Eccentric hole machining



X+Y axis circular interpolation



Fine Grooving



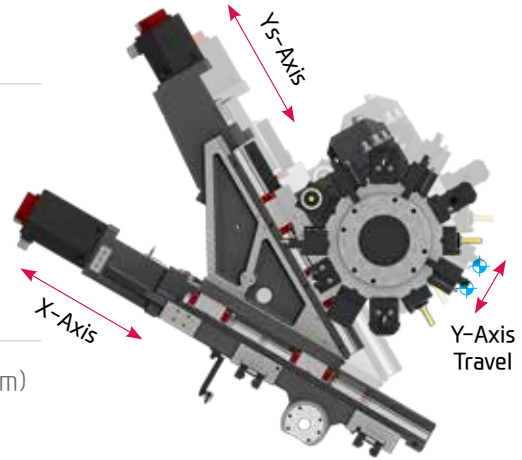
MACHINING PROCESS WITH ONLY ONE INITIAL SETTING

Y-AXIS

Wedge Type Y-Axis Structure

The SE-Y Series is designed with a wedge type Y-axis that is transferred by the simultaneous operation of the Ys-axis and the X-axis.

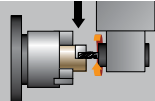
In addition, excellent rigidity makes it possible to perform superb quality when machining a high-accuracy machining.

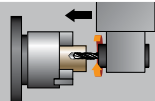


- ⦿ Y-axis Rapid Traverse Rate : 10 m/min (394 ipm)
- ⦿ Y-axis Travel : 110 {±55} mm (4.3")

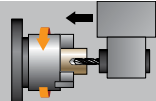
MACHINING CAPABILITY

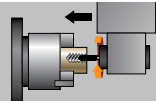
HYUNDAI WIA is doing its best to get the world-top class quality, productivity and technology for meeting the global customers' needs through its full R&D investment.

 End Mill (Material : SM45C)	
Tool Dia.	Ø12 mm
Spindle rpm	750 r/min
Forwarding speed	188 mm/min
Cutting speed	29 m/min
Machining depth	14 mm

 Drill (Material : SM45C)	
Tool Dia.	Ø13 mm
Spindle rpm	2,540 r/min
Forwarding speed	432 mm/min
Cutting speed	104 m/min

 O.D. Turning (Material : SM45C)	
Machining Dia.	Ø88 mm
Machining depth	4 mm
Spindle rpm	856 r/min
Cutting speed	215 m/min
Forwarding speed	0.5 mm/rev
Chip discharging amount	430 cc/min

 U-Drill (Material : SM45C)	
Tool Dia.	Ø60 mm
Spindle rpm	1,011 r/min
Forwarding speed	177 mm/min
Cutting speed	191 m/min
Chip discharging amount	500 cc/min

 Tap (Material : SM45C)	
Tap spec.×Pitch	M14×P2.0
Spindle rpm	600 r/min
Forwarding speed	2 mm/rev
Cutting speed	23 m/min

❖ The above result might be different by types of processing circumstances.

03 HIGH PRECISION SPINDLE

Long Lasting, High Accuracy & Excellent Performance CNC Turning Center

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Spindle Specifications

ITEM	Spindle Speed	Motor (Max./Cont.)	Torque (Max.)	Driving Method
6" Spindle	6,000 rpm (FANUC)	15/11 kW (20/15 HP)	127 N·m	Belt
	6,000 rpm (iTROL)	13.5/9 kW (18/12 HP)	114.5 N·m	
8" Spindle	4,500 rpm (FANUC)	15/11 kW (20/15 HP)	167 N·m	
	4,500 rpm (iTROL)	13.5/9 kW (18/12 HP)	150.3 N·m	
Sub Spindle	6,000 rpm (FANUC)	7.5/3.7 kW (10/5 HP)	63.6 N·m	
	6,000 rpm (iTROL)	7.4/4.9 kW (9.9/6.6 HP)	47 N·m	

HEAVY DUTY CUTTING & HIGH ACCURACY

MAIN SPINDLE

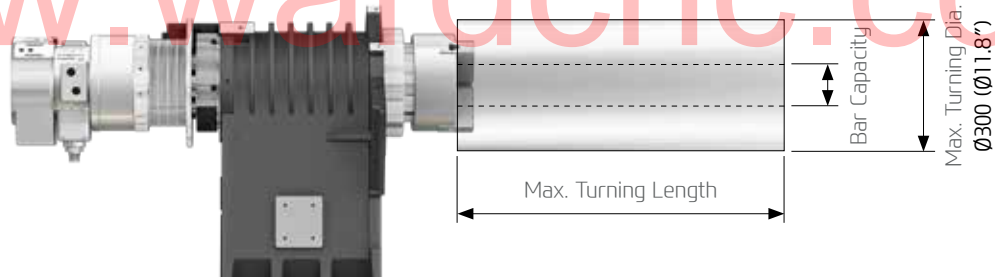
Spindle for Heavy Cutting

The main spindle is designed with the same structure often found in larger sized machines. The combination of double cylindrical roller bearings and angular contact ball bearings leads to excellent heavy duty cutting performance.

Also, machining performance is enhanced by **applying ribstar belt** to minimize noise and belt slipping problems. The spindle is designed with a **labyrinth structure** to minimize possible bearing damage from coolant and to improve machining stability.

C-Axis Control

C-axis of SE-Y Series can be controlled to 0.001° which makes it possible to process various shapes.



Max. Turning Length	Standard Bed	Long Type Bed	Bar Capacity
6 inch Spindle	309 mm (12.2")	529 mm (20.8")	Ø51 mm (Ø2")
8 inch Spindle	288 mm (11.3")	508 mm (20")	Ø65 mm (Ø2.6")

SUB SPINDLE ('SY' Type)

The Belt-type sub spindle is designed to minimize thermal displacement during the continuous machining, offering from the heavy-duty cutting to the high-speed machining. When the main spindle cutting is completed, the sub spindle rotation is synchronized with the main spindle allowing the workpiece to be transferred to the sub spindle, and machining can begin on the back side of the workpiece.



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SE-Y SERIES

04 BMT TURRET

High speed, High Accuracy, Highly Reliable Servo Turret

www.wardcnc.com



VARIOUS DRIVEN PRECISION BMT TOOL HOLDERS

TURRET

Mill Turret (BMT45)

The BMT turret secures the tool with four bolts and key on the tool mounting surface of the turret, making it possible to powerfully fix the tool, ensuring high reliability in rigidity and precision.

- Speed (rpm) : 6,000 r/min
- Collet Size : ER20 / Ø13 (Ø0.51")
- Indexing Time : 0.15 sec



STRAIGHT MILLING HEAD



ANGULAR MILLING HEAD



Mill Tool Holder

Machining capability has increased with the addition of straight milling head tool holder.

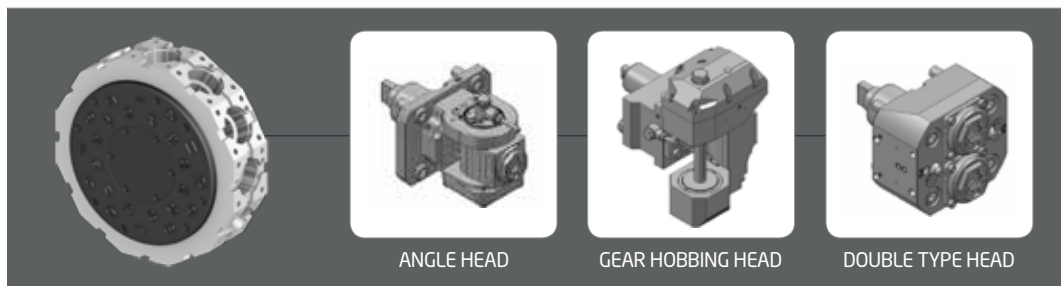
Increased Rotating Tools

Straight and angular milling haed 1ea > 2ea, respectively

SPECIAL TOOL

OPTION

With the Y-axis, the SE-Y Series can process high value-added products using a variety of rotating tools. In particular, there is a multi-holder for attaching a variety of tools to one holder, and an eccentric rotary tool for handling eccentric parts without additional axis travel, which can realize integration of process with one machine.



ANGLE HEAD

GEAR HOBBING HEAD

DOUBLE TYPE HEAD

❖ Consultation needed when ordering these options.

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05 USER CONVENIENCE

Various Devices for User Friendly

BAR FEEDER SYSTEM

Bar Feeder

Bar feeder system enables automation which leads to efficiency improvement.

Long Type	: 3 m (118.1")	Short Type	: 1.5 m (59.1")
Bar Capacity	: Ø42 (1.7")	Bar Capacity	: Ø65 (2.6")



Parts Catcher

An optional parts catcher collects finished parts without the need to open the door, adding productivity, especially when a bar feeder is attached.

Parts Conveyor

The parts conveyor transfers the finished workpiece unloaded by the parts catcher for user convenience.



Auto Door

Using M-code, the doors can be automatically opened and closed which brings productivity and convenience for automation.

Auto Shutter

Using auto shutter, automation system with gantry loader is possible without opening the machine's door.

HIGH PRECISION SYSTEM



Automatic Q-Setter

Cutting tools are calibrated quickly and accurately with the addition of a q-setter. Each tool tip is touched off manually using a sensor that inputs the position automatically.



Linear Scale

Linear scales increase positioning accuracy and reduce distortion caused by thermal growth, thus ensuring a more accurate finished part



Work Probe

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

Optional

CHIP DISPOSAL SOLUTION

Chip Conveyor

Timely and effective disposal of chips will enhance productivity as well as the working environment.



Hinge	Chip Type : Roughing Chip, Long Chip, Chip complex	Material : SS41, 45C, Cast Steel	Front-Right Direction
	Highly efficient when disposing a lot of chips. Capable of handling stringy chips..		
Scraper	Chip Type : Finely broken chip blown out	Material : cast Iron, Nonferrous	
	Convenient for shortly cut chips.		
❖ Screw	Chip Type : The lower portion of micro-chips Compresses and ejects chips to reduce chip Trouble.	Material : Steel, Casting	
❖ Drum Filter	Chip Type : Powder, Micro Chip	Material : AL	
	Advantageous in precision, as the chips do not flow in to the coolant nozzle.		

❖ When ordering a screw or drum filter chip conveyor, prior consult with hyundai wia's sales person.

COOLANT UNIT & ECO SYSTEM



Standard Coolant (Nozzle)



Chuck Coolant (Upper Chuck)



Chuck Air Blow (Upper Chuck)



Air Gun

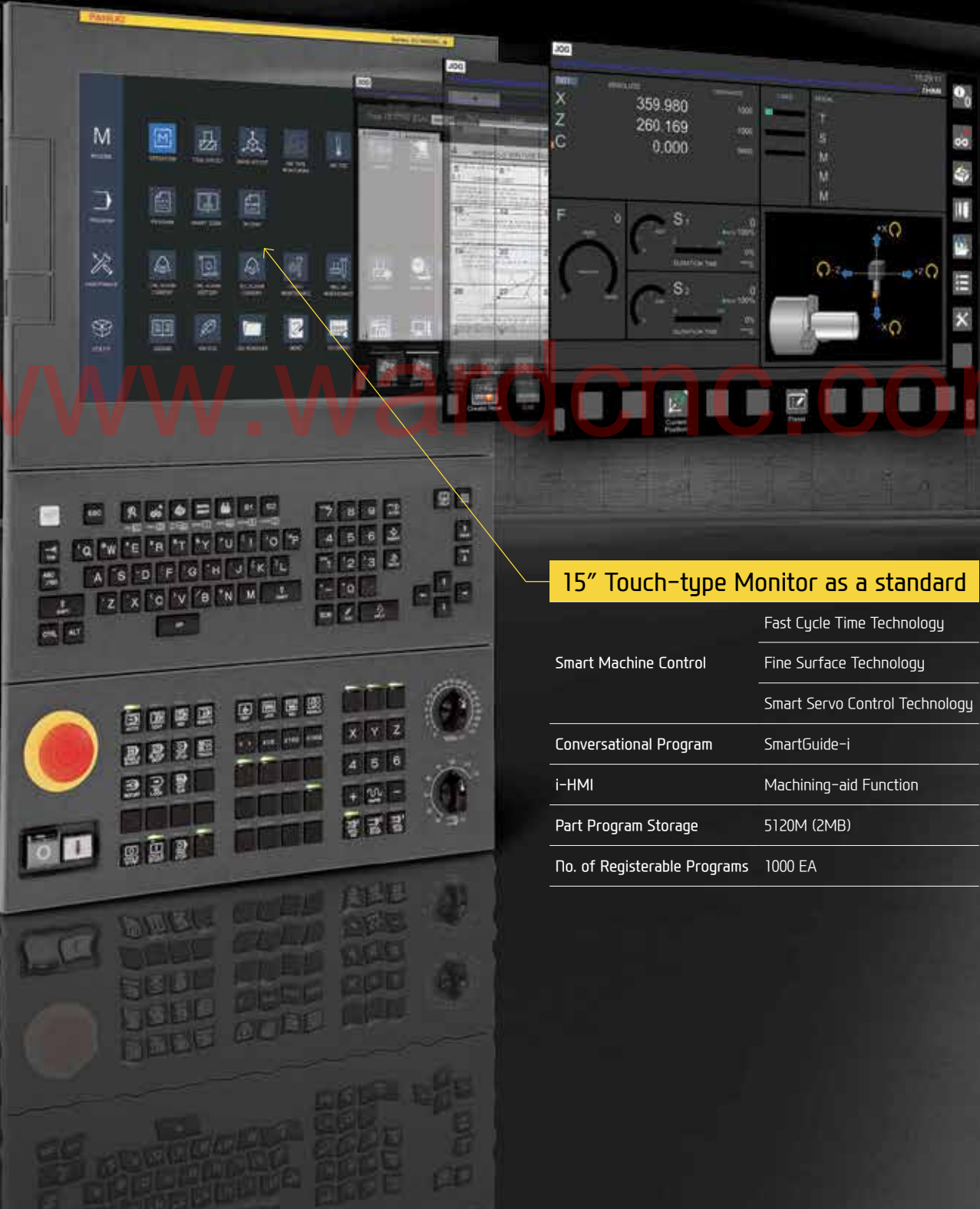


Grease Lubrication Device

- PLC control allows for timely supply of extremely small amount of grease
- System alarm (low level, line blockage)
- Oil skimmer is unnecessary
- Up to 60% reduction of annual maintenance costs compared to ordinary lubricant oil

06 HYUNDAI WIA FANUC – SMART PLUS

The Compatible All-round Control



15" Touch-type Monitor as a standard

	Fast Cycle Time Technology
Smart Machine Control	Fine Surface Technology
	Smart Servo Control Technology
Conversational Program	SmartGuide-i
i-HMI	Machining-aid Function
Part Program Storage	5120M (2MB)
No. of Registerable Programs	1000 EA

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SMART SOFTWARE



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.

Convenience Function S/W



1. Thermal Displacement Compensation (HW-TDC) **OPTION**

This software improves processing precision by minimizing thermal deformation from changes in external environments and machining.

2. Machine Guidance (HW-MCG)

This software offers various user convenience functions such as tool manipulation, maintenance, tool monitoring, and a pop-up/status

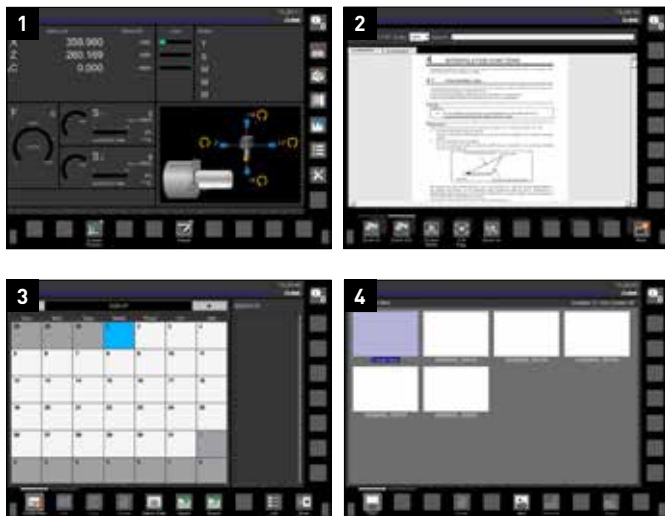
3. LAUNCHER

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

4. Tool Monitoring (HW-TM) **OPTION**

This tool status monitoring software monitors and protects workpiece, tools, and equipment through real-time monitoring of the motor load from machining.

Machining Support S/W



1. Premium Tool Operation

This software offers premium graphic functions for more intuitive tool operation.

2. Manual Viewer

This software enables users to view electronic manuals right from the tool.

3. Scheduling

This software enables viewing/setting up directly from the tool. This allows such actions as managing customer's tool schedules and schedule notification.

4. Operation Memo

This software is capable of managing customer notes such as tool information and issues.

SPECIFICATIONS

Standard & Optional

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

Spindle		SE2200YA	SE2200LYA	SE2200LSYA
Main Spindle	6"	●	●	●
Hollow Chuck 3 Jaw	8"	-	-	-
Main Spindle	6"	○	○	○
Solid Chuck 3 Jaw	8"	-	-	-
Sub Spindle				
Hollow Chuck 3 Jaw	5"	-	-	●
Sub Spindle				
Solid Chuck 3 Jaw	5"	-	-	○
Standard Soft Jaw (1set)		●	●	●
Chuck Clamp Foot Switch		●	●	●
2 Steps Hyd. Pressure Device		○	○	○
Spindle Inside Stopper		☆	☆	☆
Main Spindle Cs-axis (0.001")		●	●	●
Sub Spindle Cs-axis (0.001")		-	-	●
Chuck Open/Close Confirmation Device		●	●	●
2 Steps Chuck Foot Switch		○	○	○
Sub Chuck Foot Switch		-	-	●
Turret				
Tool Holder		●	●	●
Mill Turret	BMT	●	●	●
	12 Tool	●	●	●
	24 Tool	○	○	○
Straight Milling Head (Axial)	Collet Type, 2ea	●	●	●
Angular Milling Head (Radial)	Collet Type, 2ea	●	●	●
Straight Milling Head (Axial)	Adapter Type	○	○	○
Angular Milling Head (Radial)	Adapter Type	○	○	○
Boring Sleeve (U-drill Holder/Sleeve : Public Use)		●	●	●
Drill Socket		○	○	○
U-Drill Holder/Cap		●	●	●
Angle Head		☆	☆	☆
Tail Stock & Steady Rest				
Hydraulic NC Tail Stock (Std. Live Center)		○	●	-
Programmable Tail Stock		-	-	-
High Precision Live Center		☆	☆	-
2 Steps Tail Stock Pressure System		-	-	-
Tail Stock Foot Switch		○	○	-
Coolant & Air Blow				
Standard Coolant (Nozzle)		●	●	●
Chuck Coolant (Upper Chuck)		○	○	○
Gun Coolant		○	○	○
Through Spindle Coolant (Only for Special Chuck)		☆	☆	☆
Bed Flushing		-	-	-
Turnmill Through Coolant		○	○	○
Chuck Air Blow (Upper Chuck)		○	○	○
Sub Chuck Air Blow		-	-	○
Tail Stock Air Blow (Upper Tail Stock)		○	○	-
Turret Air Blow		☆	☆	☆
Air Gun		○	○	○
Through Spindle Air Blow (Only for Special Chuck)		-	-	-
High Pressure Coolant	0.5Bar	●	●	●
	6Bar	○	○	○
	20Bar	○	○	○
	70Bar	○	○	○
Power Coolant System (For Automation)		☆	☆	☆
Coolant Chiller (When selecting Sub Tank Type, Chip Conveyor)		-	-	-
Chip Disposal				
Coolant Tank	Front(150ℓ [39.6 gal])	●	-	-
	Front(200ℓ [52.8 gal])	-	●	●
	Rear(150ℓ [39.6 gal])	○	○	○
Chip Conveyor (Hinge/Scraper/Screw)	Front (Right)	○	○	○
	Rear (Rear)	○	○	○
Special Chip Conveyor (Drum Filter)		-	-	-
Chip Wagon	Standard (180ℓ [47.5 gal])	○	○	○
	Swing (200ℓ [52.8 gal])	○	○	○
	Large Size (330ℓ [87.2 gal])	○	○	○
	Customized	☆	☆	☆
ETC				
Tool Box		●	●	●
Customized Color	Need Munsell No.	☆	☆	☆
CAD & CAM		☆	☆	☆

Electric Device		SE2200YA	SE2200LYA	SE2200LSYA
Call Light	1Color : ●	●	●	●
	2Color : ○	○	○	○
	3Color : ○	○	○	○
Call Light & Buzzer	3Color : ●●● B	○	○	○
Electric Cabinet Light		○	○	○
Remote MPG		○	○	○
Work Counter	Digital	○	○	○
Total Counter	Digital	○	○	○
Tool Counter	Digital	○	○	○
Multi Tool Counter	6ea	○	○	○
	9ea	○	○	○
Electric Circuit Breaker		○	○	○
AVR (Auto Voltage Regulator)		☆	☆	☆
Transformer	25kVA	○	○	-
	30kVA	-	-	-
Auto Power Off		○	○	○
Measurement				
Q-Setter		○	○	○
Automatic Q-Setter		○	○	○
Work Close Confirmation Device (Only for Special Chuck)	TACO	○	○	○
	SMC	○	○	○
Work Setter		☆	☆	☆
Linear Scale	X/Z/Y axis	○	○	○
Coolant Level Sensor (Only for Chip Conveyor)		☆	☆	☆
Environment				
Air Conditioner	FANUC	○	○	○
	ITROL	○	○	●
Dehumidifier		○	○	○
Oil Mist Collector		☆	☆	☆
Oil Skimmer (Only for Chip Conveyor)		○	○	○
MQL (Minimal Quantity Lubrication)		☆	☆	☆
Fixture & Automation				
Auto Door		○	○	○
Auto Shutter (Only for Automatic System)		○	○	○
Sub Operation Pannel		☆	☆	☆
Bar Feeder Interface		○	○	○
Bar Feeder (FEDEK)		☆	☆	☆
Sub Spindle Work Pusher (Spring Type)		-	-	○
Sub Spindle Work Ejector (Pneumatic Type)		-	-	○
Extra M-Code 4ea		○	○	○
Automation Interface		☆	☆	☆
I/O Extension (IN & OUT)	16 Contact	○	○	○
	32 Contact	○	○	○
Parts Catcher	Main SP.	-	-	○
	Sub SP.	-	-	○
Turret Work Pusher (For Automation)		☆	☆	☆
Parts Conveyor (Required Main Parts Catcher)		○	○	○
Semi Automation System		☆	☆	☆
Hyd. Device				
Standard Hyd. Cylinder	Hollow	●	●	●
Standard Hyd. Unit {35bar (507.6 psii)}	15ℓ (4gal)	●	●	-
	20ℓ (5.3gal)	-	-	●
S/W				
Conversational program	SmartGuide-i	●	●	●
	HW-DPRO	○	○	○
Thermal Displacement Compensation (HW-TDC)		○	○	○
Tool Monitoring (HW-TM)		○	○	○
Machine Guidance (HW-MCG)		●	●	●
Energy Saving System (HW-ESS)		●	●	●
DNC software (HW-eDNC)		○	○	○
Machine Monitoring System (HW-MMS)		○	○	○
Thermal Displacement Compensation Device		○	○	○
Premium Tool Operation		●	●	●
Manual Viewer		●	●	●
Scheduling		●	●	●
Operation Memo		●	●	●
Safety Device				
Total Splash Guard		●	●	●
Back Spin Torque Limiter (BST)		●	●	●
Torque Limiter		○	○	○
Fornt Door Interlock		●	●	●
Chuck Hydraulic Pressure Maintenance Interlock		☆	☆	☆

❖ Thermal Displacement Compensation device is recommended, when more than 6 bar of high pressure coolant is applied, for the high quality machining.
Specifications are subject to change without notice for improvement.

SPECIFICATIONS

Standard & Optional

		SE2200Y	SE2200LY	SE2200LSY
Spindle				
Main Spindle	6"	-	-	-
Hollow Chuck 3 Jaw	8"	●	●	●
Main Spindle	6"	-	-	-
Solid Chuck 3 Jaw	8"	○	○	○
Sub Spindle	5"	-	-	●
Hollow Chuck 3 Jaw				
Sub Spindle	5"	-	-	○
Solid Chuck 3 Jaw				
Standard Soft Jaw (1set)		●	●	●
Chuck Clamp Foot Switch		●	●	●
2 Steps Hyd. Pressure Device		○	○	○
Spindle Inside Stopper		☆	☆	☆
Main Spindle Cs-axis (0.001")		●	●	●
Sub Spindle Cs-axis (0.001")		-	-	●
Chuck Open/Close Confirmation Device		●	●	●
2 Steps Chuck Foot Switch		○	○	○
Sub Chuck Foot Switch		-	-	●
Turret				
Tool Holder		●	●	●
Mill Turret	BMT	●	●	●
	12 Tool	●	●	●
	24 Tool	○	○	○
Straight Milling Head (Axial)	Collet Type, 2ea	●	●	●
Angular Milling Head (Radial)	Collet Type, 2ea	●	●	●
Straight Milling Head (Axial)	Adapter Type	○	○	○
Angular Milling Head (Radial)	Adapter Type	○	○	○
Boring Sleeve (U-drill Holder/Sleeve : Public Use)		●	●	●
Drill Socket		○	○	○
U-Drill Holder/Cap		●	●	●
Angle Head		☆	☆	☆
Tail Stock & Steady Rest				
Hydraulic NC Tail Stock (Std. Live Center)		○	●	-
Programmable Tail Stock		-	-	-
High Precision Live Center		☆	☆	-
2 Steps Tail Stock Pressure System		-	-	-
Tail Stock Foot Switch		○	○	-
Coolant & Air Blow				
Standard Coolant (Nozzle)		●	●	●
Chuck Coolant (Upper Chuck)		○	○	○
Gun Coolant		○	○	○
Through Spindle Coolant (Only for Special Chuck)		☆	☆	☆
Bed Flushing		-	-	-
Turnmill Through Coolant		○	○	○
Chuck Air Blow (Upper Chuck)		○	○	○
Sub Chuck Air Blow		-	-	-
Tail Stock Air Blow (Upper Tail Stock)		○	○	-
Turret Air Blow		☆	☆	☆
Air Gun		○	○	○
Through Spindle Air Blow (Only for Special Chuck)		-	-	-
High Pressure Coolant	0.5Bar	●	●	●
	6Bar	○	○	○
	20Bar	○	○	○
	70Bar	○	○	○
Power Coolant System (For Automation)		☆	☆	☆
Coolant Chiller (When selecting Sub Tank Type, Chip Conveyor)		-	-	-
Chip Disposal				
Coolant Tank	Front(150 ℓ [39.6 gal])	●	-	-
	Front(200 ℓ [52.8 gal])	-	●	●
	Rear(150 ℓ [39.6 gal])	○	○	○
Chip Conveyor (Hinge/Scraper/Screw)	Front (Right)	○	○	○
	Rear (Rear)	○	○	○
Special Chip Conveyor (Drum Filter)		-	-	-
Chip Wagon	Standard (180 ℓ [47.5 gal])	○	○	○
	Swing (200 ℓ [52.8 gal])	○	○	○
	Large Size (330 ℓ [87.2 gal])	○	○	○
	Customized	☆	☆	☆
ETC				
Tool Box		●	●	●
Customized Color	Need Munsell No.	☆	☆	☆
CAD & CAM		☆	☆	☆

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

		SE2200Y	SE2200LY	SE2200LSY
Electric Device				
Call Light	1Color : ●	●	●	●
	2Color : ●●	○	○	○
	3Color : ●●●	○	○	○
Call Light & Buzzer	3Color : ●●●B	○	○	○
Electric Cabinet Light		○	○	○
Remote MPG		○	○	○
Work Counter	Digital	○	○	○
Total Counter	Digital	○	○	○
Tool Counter	Digital	○	○	○
Multi Tool Counter	6ea	○	○	○
	9ea	○	○	○
Electric Circuit Breaker		○	○	○
AVR (Auto Voltage Regulator)		☆	☆	☆
Transformer	25kVA	○	○	-
	30kVA	-	-	-
Auto Power Off		○	○	○
Measurement				
Q-Setter		○	○	○
Automatic Q-Setter		○	○	○
Work Close Confirmation Device (Only for Special Chuck)	TACO	○	○	○
	SMC	○	○	○
Work Setter		☆	☆	☆
Linear Scale	X/Z/Y axis	○	○	○
Coolant Level Sensor (Only for Chip Conveyor)		☆	☆	☆
Environment				
Air Conditioner	FANUC iTR0L	○	○	○
Dehumidifier		○	○	○
Oil Mist Collector		☆	☆	☆
Oil Skimmer (Only for Chip Conveyor)		○	○	○
MQL (Minimal Quantity Lubrication)		☆	☆	☆
Fixture & Automation				
Auto Door		○	○	○
Auto Shutter (Only for Automatic System)		○	○	○
Sub Operation Panel		☆	☆	☆
Bar Feeder Interface		○	○	○
Bar Feeder (FEDEK)		☆	☆	☆
Sub Spindle Work Pusher (Spring Type)		-	-	○
Sub Spindle Work Ejector (Pneumatic Type)		-	-	○
Extra M-Code 4ea		○	○	○
Automation Interface		☆	☆	☆
I/O Extension (IN & OUT)	16 Contact	○	○	○
	32 Contact	○	○	○
Parts Catcher	Main SP.	○	○	○
	Sub SP.	-	-	○
Turret Work Pusher (For Automation)		☆	☆	☆
Parts Conveyor (Required Main Parts Catcher)		○	○	○
Semi Automation System		☆	☆	☆
Hyd. Device				
Standard Hyd. Cylinder	Hollow	●	●	●
Standard Hyd. Unit (35bar (507.6 psi))	15 ℓ (4gal)	●	●	-
	20 ℓ (5.3gal)	-	-	●
S/W				
Conversational program	SmartGuide-i	●	●	●
	HW-DPRO	○	○	○
Thermal Displacement Compensation (HW-TDC)		○	○	○
Tool Monitoring (HW-TM)		○	○	○
Machine Guidance (HW-MCG)		●	●	●
Energy Saving System (HW-ESS)		●	●	●
DNIC software (HW-eDNIC)		○	○	○
Machine Monitoring System (HW-MMS)		○	○	○
Thermal Displacement Compensation Device		○	○	○
Premium Tool Operation		●	●	●
Manual Viewer		●	●	●
Scheduling		●	●	●
Operation Memo		●	●	●
Safety Device				
Total Splash Guard		●	●	●
Back Spin Torque Limiter (BST)		●	●	●
Torque Limiter		○	○	○
Form Door Interlock		●	●	●
Chuck Hydraulic Pressure Maintenance Interlock		☆	☆	☆

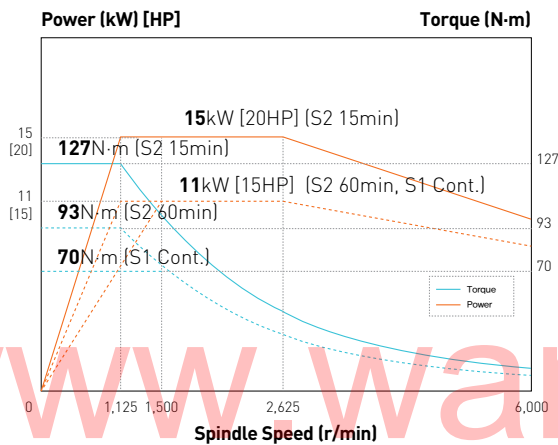
◆ Thermal Displacement Compensation device is recommended, when more than 6 bar of high pressure coolant is applied, for the high quality machining.

Specifications are subject to change without notice for improvement.

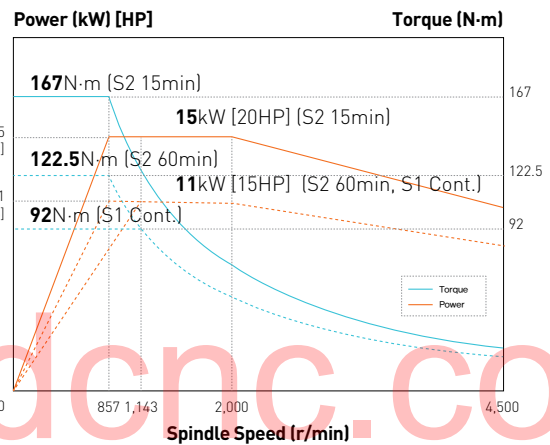
SPECIFICATIONS

Spindle Output/Torque Diagram (HYUNDAI WIA FANUC i Series – Smart Plus)

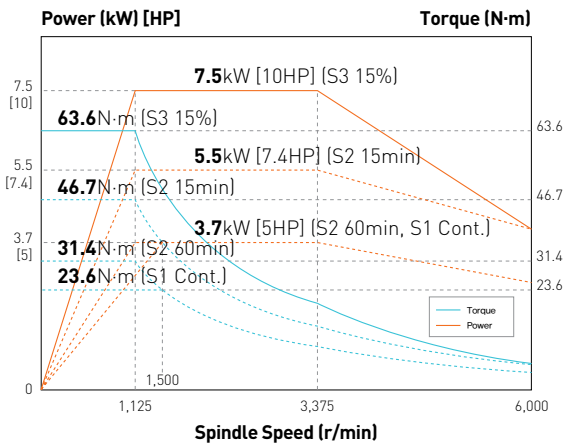
SE2200YA/LYA/LSYA 6,000 rpm



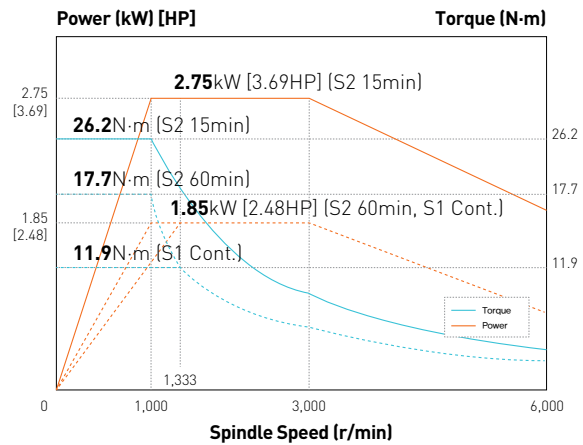
SE2200Y/LY/LSY 4,500 rpm



Sub Spindle 6,000 rpm



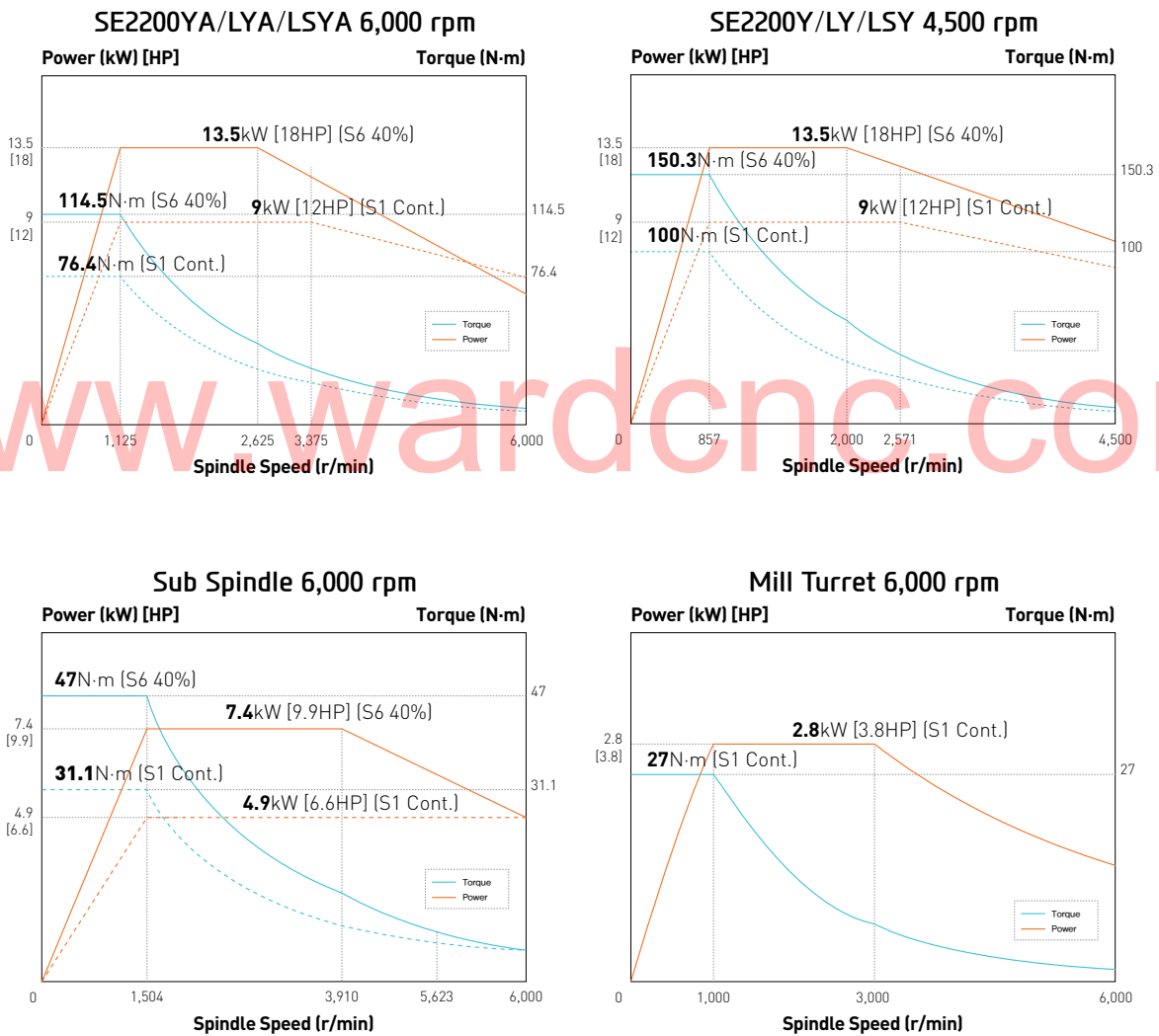
Mill Turret 6,000 rpm



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SPECIFICATIONS

Spindle Output/Torque Diagram (HYUNDAI-iTROL)



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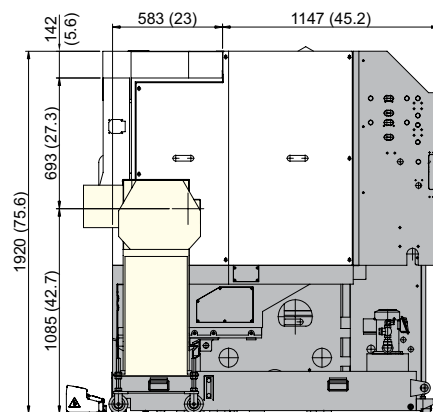
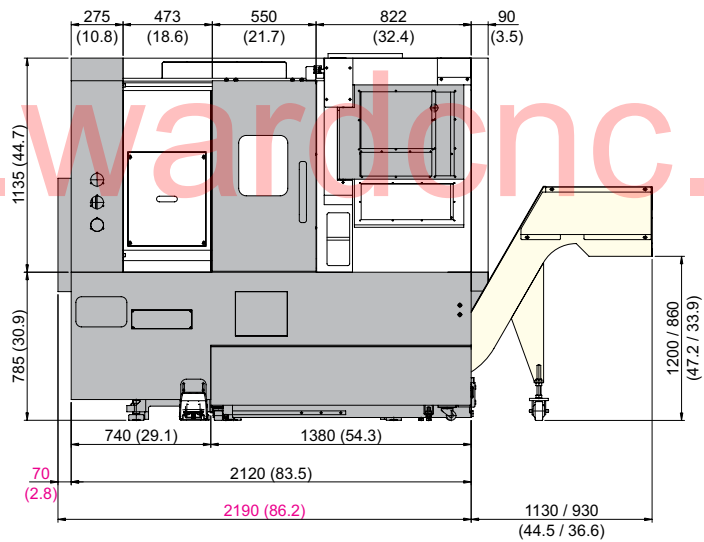
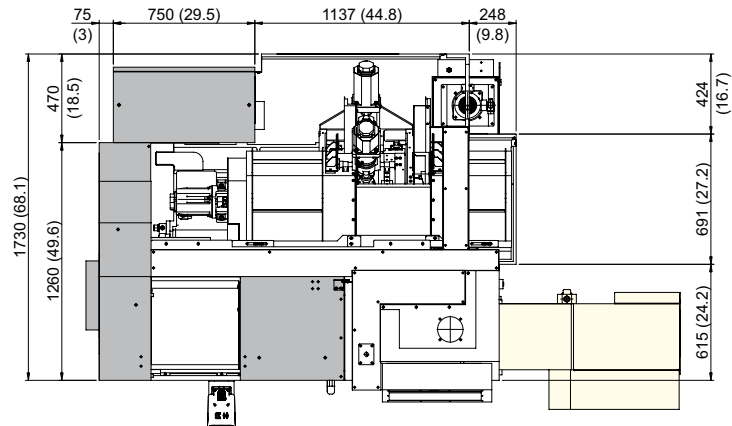
SPECIFICATIONS

External Dimensions

unit : mm(in)

SE2200YA

SE2200Y

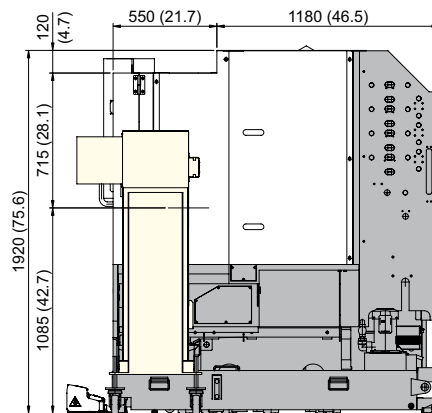
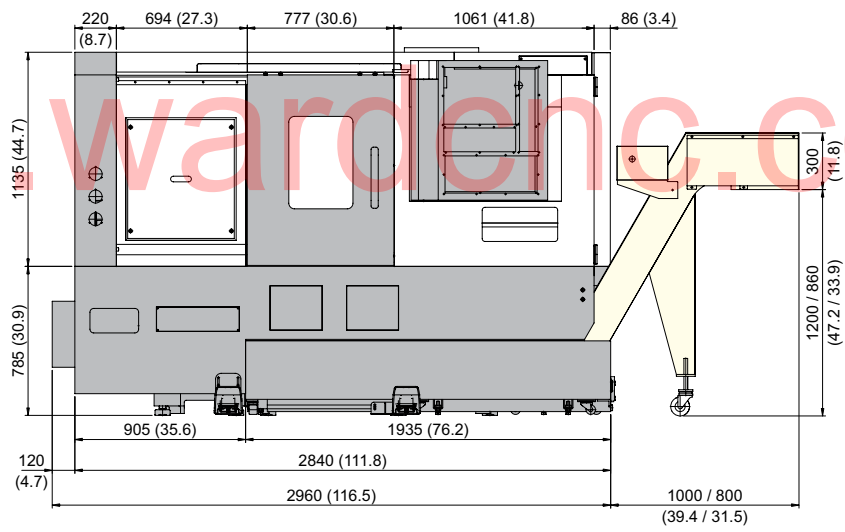
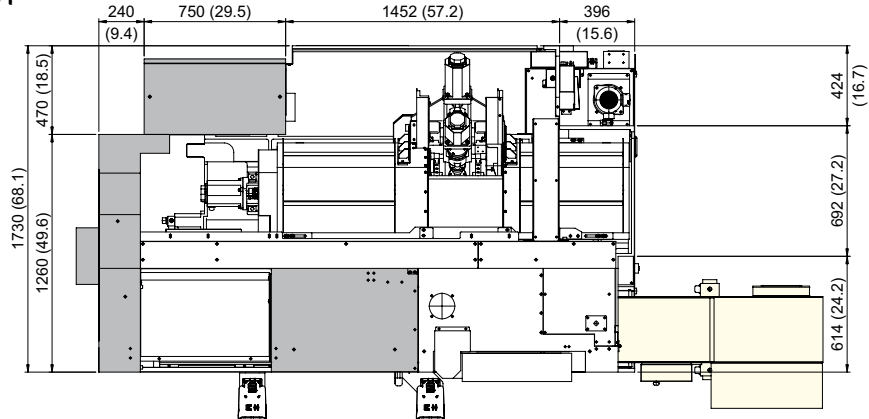


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External Dimensions

unit : mm(in)

SE2200LYA/LSYA
SE2200LY/LSY



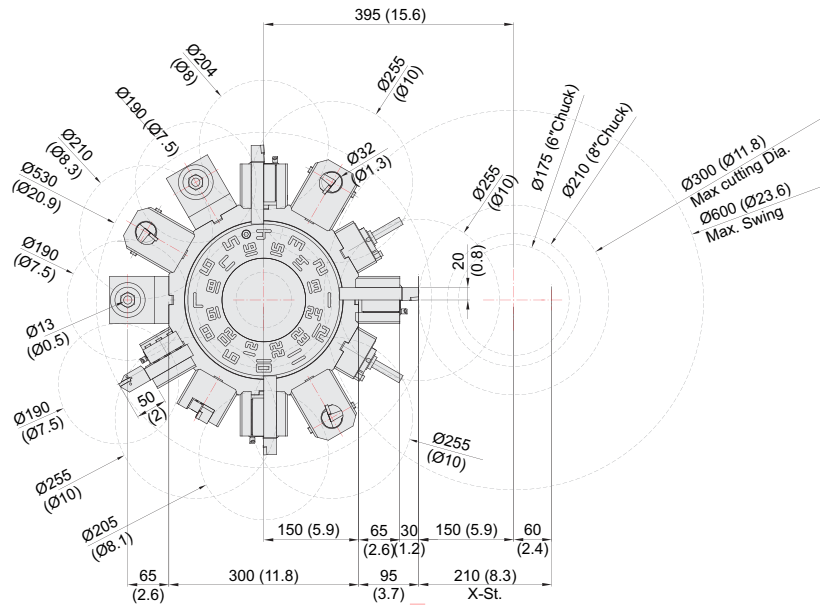
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SPECIFICATIONS

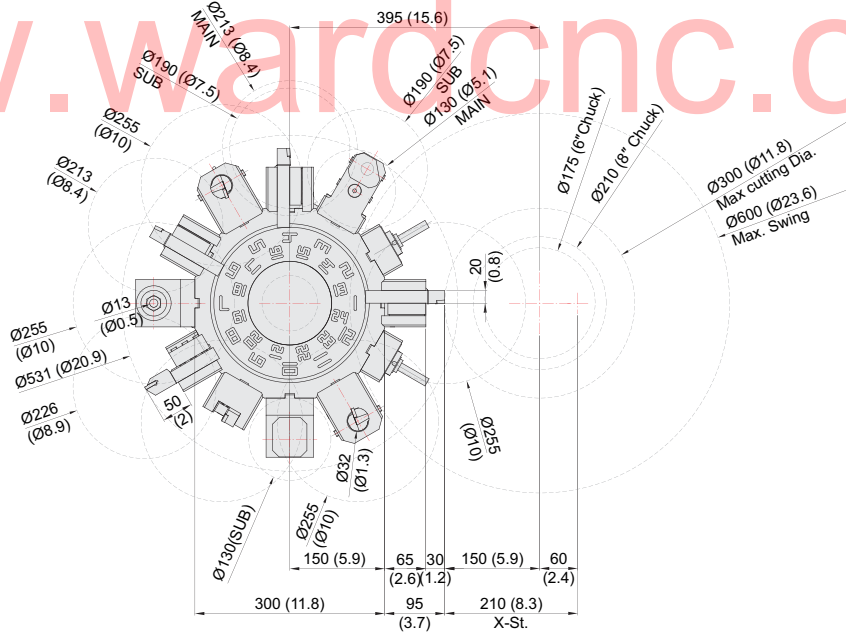
Interference

unit : mm

SE2200YA/LYA
SE2200Y/LY

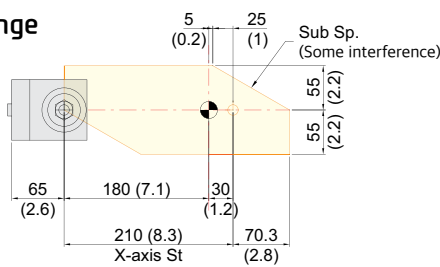


SE2200LSYA
SE2200LSY

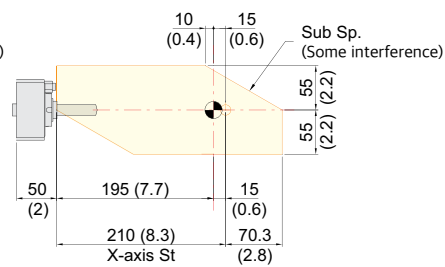


Y-axis
Travel Range

ANGULAR



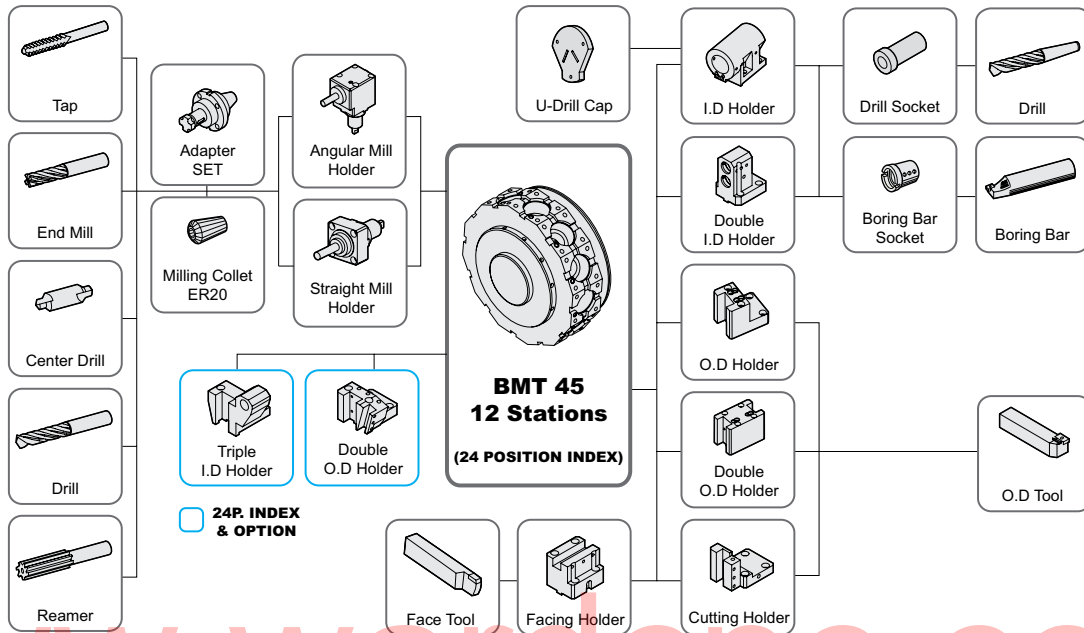
STRAIGHT



SPECIFICATIONS

Tooling System

unit : mm(in)



SE2200YA/LYA | SE2200Y/LY Tooling Parts Detail

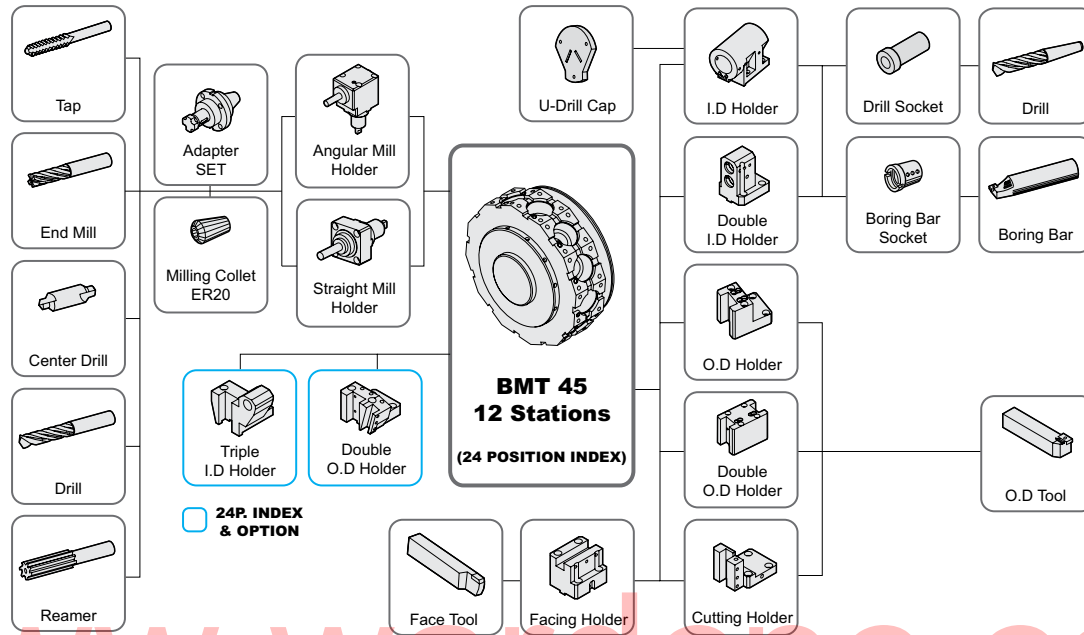
ITEM			12 Position		24 Position : Opt.	
			mm Unit	inch Unit	mm Unit	inch Unit
Turning Holder	O.D Holder	Right/Left	3	3	2	2
		Double	-	-	-	-
		Double (24P, Main)	-	-	1	1
		Double (24P, Sub)	-	-	-	-
	Facing Holder	1	1	1	1	
Cutting Holder	1	1	1	1		
Boring Holder	I.D Holder	Single	2	2	1	1
		Double	-	-	-	-
		Triple	-	-	1	1
	U-Drill Holder	Cap	1	1	1	1
Driven Holder	Straight Mill Holder	Standard	2	2	2	2
	Angular Mill Holder	Standard	2	2	2	2
Socket	Boring	Ø10 (Ø3/8")	1	1	1	1
		Ø12 (Ø1/2")	1	1	1	1
		Ø16 (Ø5/8")	1	1	1	1
		Ø20 (Ø3/4")	1	1	1	1
		Ø25 (Ø1")	1	1	1	1
		Ø10 (Ø3/8")	1	1	1	1
	Sub Boring	Ø8 (5/16")	-	-	1	1
		Ø10 (Ø3/8")	-	-	1	1
		Ø12 (1/2")	-	-	1	1
		Ø16 (5/8")	-	-	1	1
	Drill	MT 1	Opt.	Opt.	Opt.	Opt.
		MT 2	Opt.	Opt.	Opt.	Opt.
	ER Collet		1 Set	1 Set	1 Set	1 Set
Adapter Set		Opt.	Opt.	Opt.	Opt.	

Specifications are subject to change without notice for improvement.

SPECIFICATIONS

Tooling System

unit : mm(in)



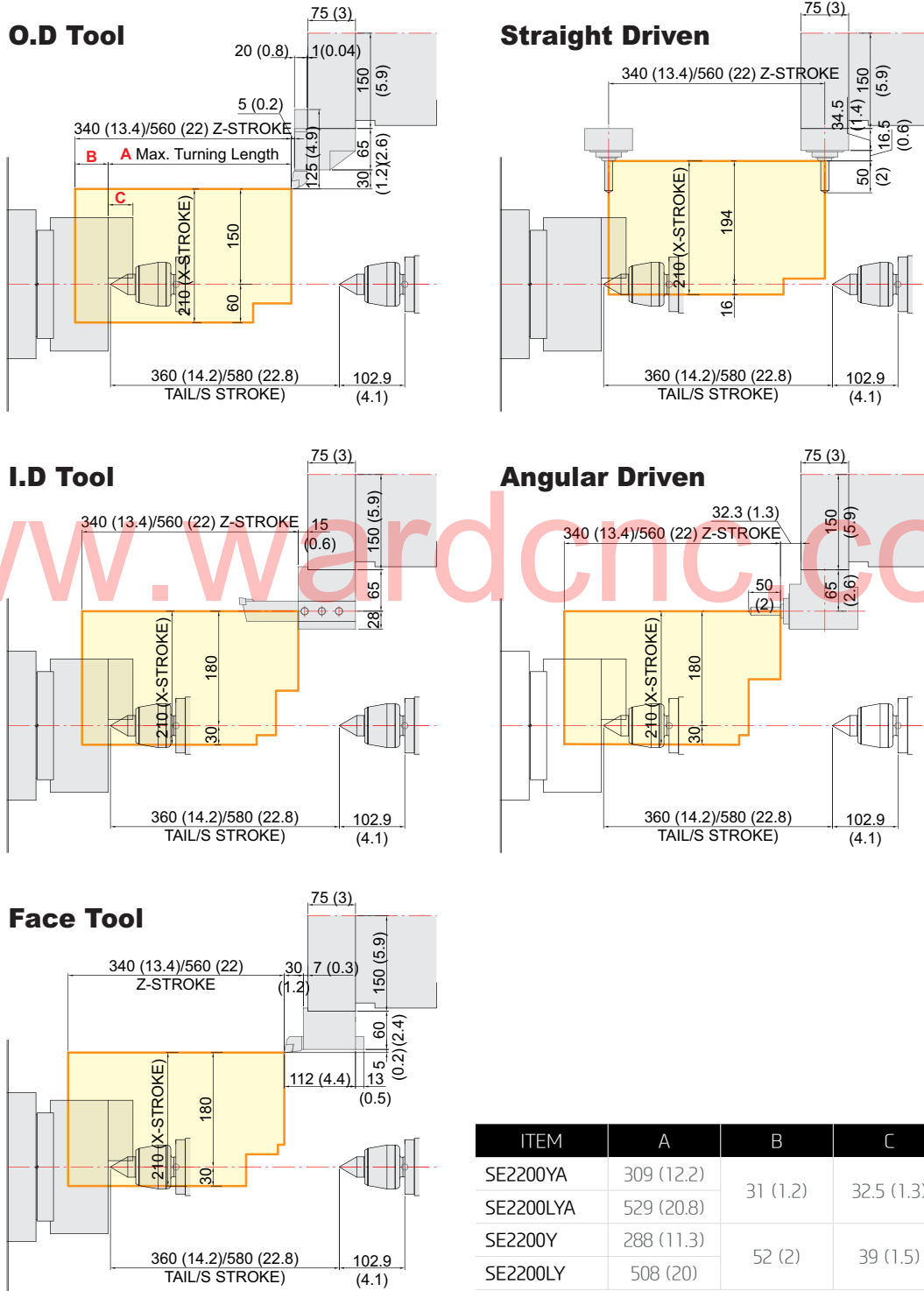
SE2200LSYA | SE2200LSY Tooling Parts Detail

ITEM			12 Position		24 Position : Opt.	
			mm Unit	inch Unit	mm Unit	inch Unit
Turning Holder	O.D Holder	Right/Left	2	2	-	-
		Double	1	1	1	1
		Double (24P. Main)	-	-	1	1
		Double (24P. Sub)	-	-	1	1
	Facing Holder		1	1	1	1
	Cutting Holder		1	1	1	1
Boring Holder	I.D Holder	Single	1	1	-	-
		Double	1	1	1	1
		Triple	-	-	1	1
	U-Drill Holder	Cap	1	1	1	1
Driven Holder	Straight Mill Holder	Standard	2	2	2	2
	Angular Mill Holder	Standard	2	2	2	2
Socket	Boring	Ø10 (Ø3/8")	1	1	1	1
		Ø12 (Ø1/2")	1	1	1	1
		Ø16 (Ø5/8")	1	1	1	1
		Ø20 (Ø3/4")	1	1	1	1
		Ø25 (Ø1")	1	1	1	1
	Sub Boring	Ø8 (5/16")	1	1	1	1
		Ø10 (Ø3/8")	1	1	1	1
		Ø12 (1/2")	1	1	1	1
		Ø16 (5/8")	1	1	1	1
	Drill	MT 1	Opt.	Opt.	Opt.	Opt.
		MT 2	Opt.	Opt.	Opt.	Opt.
		ER Collet	1 Set	1 Set	1 Set	1 Set
		Adapter Set	Opt.	Opt.	Opt.	Opt.

SPECIFICATIONS

Tooling Travel Range (SE2200YA/LYA | SE2200Y/LY)

unit : mm(in)

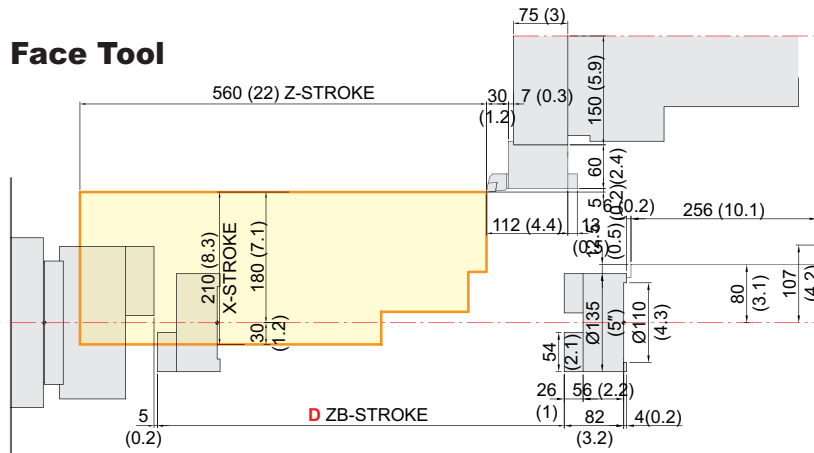
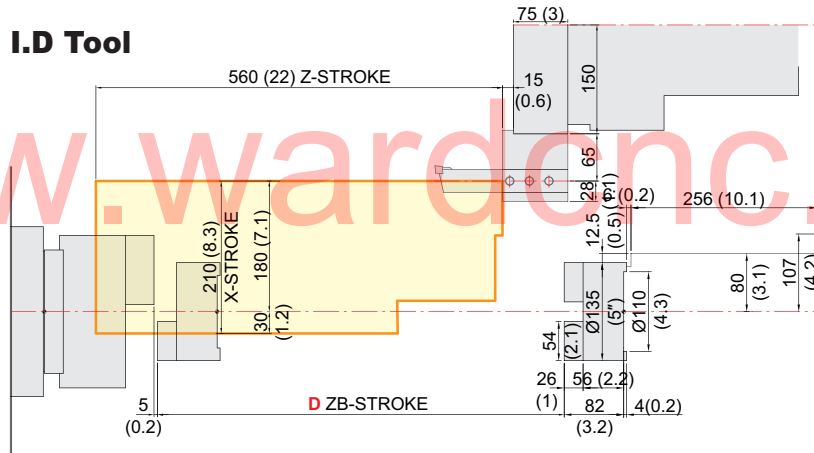
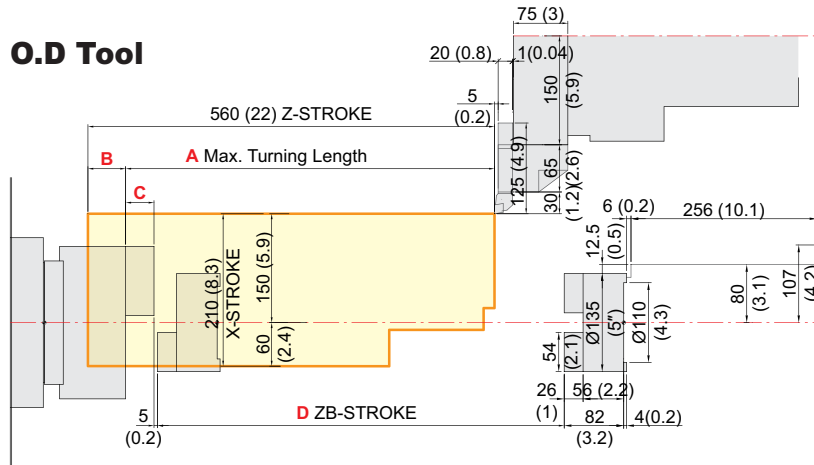


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SPECIFICATIONS

Tooling Travel Range (SE2200LSYA | SE2200LSY)

unit : mm(in)

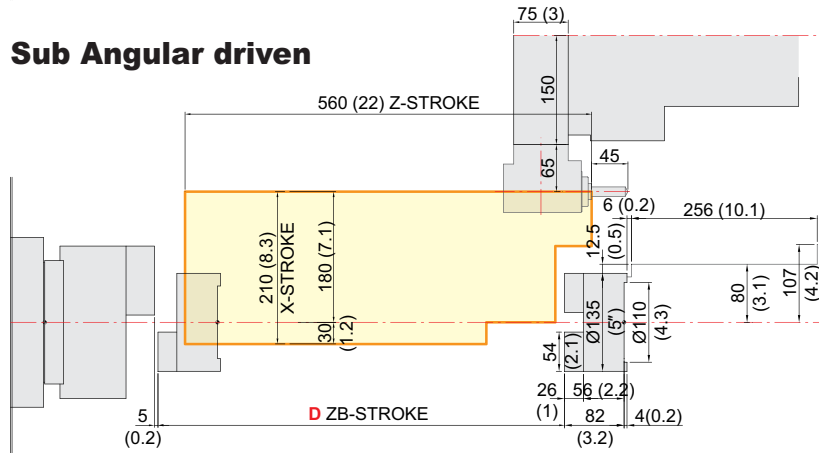
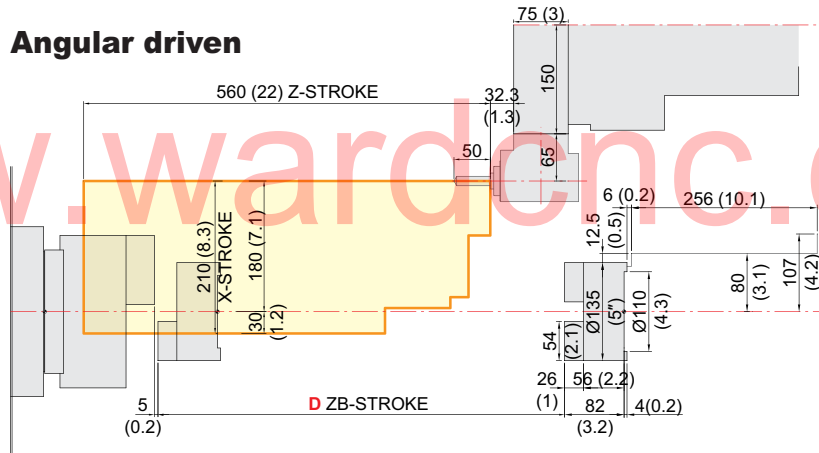
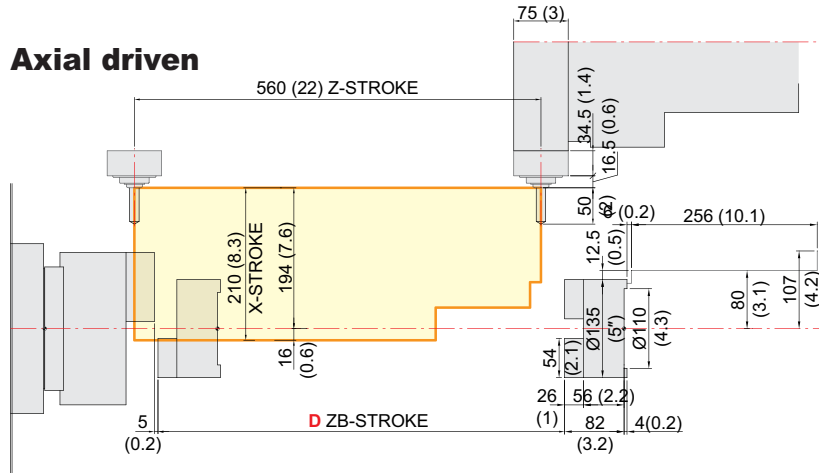


ITEM	A	B	C	D
SE2200LSYA	529 (20.8)	31 (1.2)	32.5 (1.3)	599.3 (23.6)
SE2200LSY	508 (20)	52 (2)	39 (1.5)	560 (22)

SPECIFICATIONS

Tooling Travel Range (SE2200LSYA | SE2200LSY)

unit : mm(in)



ITEM	A	B	C	D
SE2200LSYA	529 (20.8)	31 (1.2)	32.5 (1.3)	599.3 (23.6)
SE2200LSY	508 (20)	52 (2)	39 (1.5)	560 (22)

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SPECIFICATIONS

Specifications

[] : Option

ITEM			SE2200YA	SE2200LYA	SE2200LSYA
CAPACITY	Swing Over the Bed	mm(in)	Ø600 (Ø23.6")		
	Swing Over the Carriage	mm(in)	Ø600 (Ø23.6")		
	Max. Turning Dia.	mm(in)	Ø300 (Ø11.8")		
	Max. Turning Length	mm(in)	309 (12.2")	529 (20.8")	
	Bar Capacity	Main	mm(in)	Ø51 (Ø2")	
Sub		mm(in)	-	Ø32 (Ø1.3")	
SPINDLE	Chuck Size	Main	6"		
		Sub	5"		
	Spindle Bore	Main	Ø60 (Ø2.4")		
		Sub	Ø42 (Ø1.7")		
	Spindle Speed (rpm)	Main	6,000		
		Sub	-		
	Motor (Max./Cont.)	Main	15/11 (20/15) [13.5/9 (18/12)]		
		Sub	-		
	Max. Torque	Main	127 [114.5]		
		Sub	-		
Spindle Type	Main	BELT			
	Sub	-			
Spindle Nose	Main	A2-5			
	Sub	FLAT TYPE			
C-axis Indexing	deg	0.001°			
FEED	Travel	X/Y	210/110 {±55} (8.3"/4.3" {±2.2"})		
		Z/ZB	340 (13.4")	560 (22")	560/599.3 (22"/23.6")
	Rapid Traverse Rate	X/Y	30/10 (1,181/394)		
		Z/ZB	36 (1,417)		36/15 (1,417/591)
Slide Type	-	ROLLER LM GUIDE			
TURRET	No. of Tools	ea	12 [24]		
	Tool Size	O.D	ø 20 (ø 3/4")		
		I.D	Ø32 (Ø1 1/4")		
	Indexing Time	sec	0.15		
Y-Axis Type	-	WEDGE TYPE			
LIVE TOOL	Milling Tool Speed (rpm)	r/min	6,000		
	Motor (Max./Cont.)	kw(HP)	2.75/1.85 (3.69/2.48) [Cont. : 2.8 (3.8)]		
	Max. Torque	N·m	26.2 [Cont. : 27]		
	Collet Size	mm(in)	ER20 / Ø13 (Ø0.5")		
	Type	-	BMT45		
TAIL STOCK	Taper	-	MT#4		-
	Dia.	mm(in)	Ø56 (Ø2.2")		
	Travel	mm(in)	360 (14.2")	580 (22.8")	-
TANK CAPACITY	Coolant Tank	ℓ (gal)	150 (39.6)	200 (52.8)	
	Lubricating Tank	ℓ (gal)	0.7 (0.2)		
POWER SUPPLY	Electric Power Supply	kVA	18		23
	Thickness of Power Cable	Sq	Over 16		
	Voltage	V/Hz	220V, 50/60Hz		
MACHINE	Floor Space (L×W)	mm(in)	2,210×1,730 (87"×63.4")	2,960×1,730 (116.5"×68.1")	
	Height	mm(in)	1,920 (75.6")		
	Weight	kg(lb)	3,700 (8,157)	4,100 (9,039)	4,200 (9,259)
CNC	Controller	-	HYUNDAI WIA FANUC i Series - Smart Plus [HYUNDAI-ITROL]		

Specifications are subject to change without notice for improvement.

SPECIFICATIONS

Specifications

[] : Option

ITEM		SE2200Y	SE2200LY	SE2200LSY	
CAPACITY	Swing Over the Bed	mm(in)	Ø600 (Ø23.6")		
	Swing Over the Carriage	mm(in)	Ø600 (Ø23.6")		
	Max. Turning Dia.	mm(in)	Ø300 (Ø11.8")		
	Max. Turning Length	mm(in)	288 (11.3")	508 (20")	
	Bar Capacity	Main	mm(in)	Ø65 (Ø2.6")	
Sub		mm(in)	-	Ø32 (Ø1.3")	
SPINDLE	Chuck Size	Main	8"		
		Sub	-	5"	
	Spindle Bore	Main	Ø75 (Ø3")		
		Sub	-	Ø42 (Ø1.7")	
	Spindle Speed (rpm)	Main	4,500		
		Sub	-	6,000	
	Motor (Max./Cont.)	Main	15/11 (20/15) [13.5/9 (18/12)]		
		Sub	-	7.5/3.7 (10/5) [7.4/4.9 (93.9/6.6)]	
	Max. Torque	Main	167 [150.3]		
		Sub	-	63.6 [47]	
	Spindle Type	Main	BELT		
		Sub	-	BELT	
	Spindle Nose	Main	A2-6		
		Sub	mm(in)	-	FLAT TYPE
C-axis Indexing		deg 0.001°			
FEED	Travel	X/Y mm(in)	210/110 {±55} (8.3"/4.3" {±2.2"})		
		Z/ZB mm(in)	340 (13.4")	560 (22") 560/560 (22"/22")	
	Rapid Traverse Rate	X/Y m/min(ipm)	30/10 (1,181/394)		
	Z/ZB m/min(ipm)	36 (1,417)			
	Slide Type	-	ROLLER LM GUIDE		
TURRET	No. of Tools	ea	12 [24]		
	Tool Size	O.D	□ 20 (□ 3/4")		
		I.D	Ø32 (Ø1 1/4")		
	Indexing Time	sec	0.15		
Y-Axis Type	-	WEDGE TYPE			
LIVE TOOL	Milling Tool Speed (rpm)	r/min	6,000		
	Motor (Max./Cont.)	kW(HP)	2.75/1.85 (3.69/2.48) [Cont. : 2.8 (3.8)]		
	Max. Torque	N-m	26.2 [Cont. : 27]		
	Collet Size	mm(in)	ER20 / Ø13 (Ø0.5")		
	Type	-	BMT45		
TAIL STOCK	Taper	-	MT#4		
	Dia.	mm(in)	Ø56 (Ø2.2")		
	Travel	mm(in)	360 (14.2")	580 (22.8")	
TANK CAPACITY	Coolant Tank	ℓ (gal)	150 (39.6)	200 (52.8)	
	Lubricating Tank	ℓ (gal)	0.7 (0.2)		
POWER SUPPLY	Electric Power Supply	kVA	18	23	
	Thickness of Power Cable	Sq	Over 16		
	Voltage	V/Hz	220V, 50/60Hz		
MACHINE	Floor Space (L×W)	mm(in)	2,280×1,730 (89.8"×68.1")	2,960×1,730 (116.5"×68.1")	
	Height	mm(in)	1,920 (75.6")		
	Weight	kg(lb)	3,800 (8,378)	4,200 (9,259) 4,300 (9,480)	
CNC	Controller	-	HYUNDAI WIA FANUC i Series - Smart Plus [HYUNDAI-ITROL]		

Specifications are subject to change without notice for improvement.

CONTROLLER

HYUNDAI WIA FANUC i Series – Smart Plus

[] : Option

Controlled axis / Display / Accuracy Compensation	
Control axes	2 axes (X, Z) / 3 axes (X, Z, C) / 4 axes (X, Z, Y, C) 5 axes (X, Z, B, C, A) / 6 axes (X, Z, Y, B, C, A) 7 axes (X1/Z1, X2/Z2, B2, C1/C2)
Simultaneously controlled axes	2 axes [Max. 4 axes]
Designation of spindle axes	3 axes [Max. 4 axes]
Least setting Unit	X, Z, Y, B axes : 0.001 mm (0.0001 inch) C, A axes : 0.001 deg
Least input increment	X, Z, Y, B axes : 0.001 mm (0.0001 inch) C, A axes : 0.001 deg
Inch / Metric conversion	G20 / G21
High response vector control	
Interlock	All axes / Each axis
Machine lock	All axes
Backlash compensation	± 0~9999 pulses (exc. Rapid traverse / Cutting feed)
Position switch	
LCD / MDI	15 inch LCD unit (with Touch Panel)
Feedback	Absolute motor feedback
Stored stroke check 1	Over travel
Stored stroke check 2, 3	
PMC axis control	
Operation	
Automatic operation (Memory)	
MDI operation	
DNC operation	Needed DNC software / CF card
Program restart	
Wrong operation prevention	
Program check function	Dry run
Single block	
Search function	Program Number / Sequence Number
Interpolation functions	
Nano interpolation	
Positioning	G00
Linear interpolation	G01
Circular interpolation	G02, G03
Exact stop mode	Single : G09, Continuous : G61
Dwell	G04, 0 ~ 9999.9999 sec
Skip	G31
Reference position return	1st reference : G28, 2nd reference : G30 Ref. position check : G27
Thread synchronous cutting	G33
Thread cutting retract	
Variable lead thread cutting	
Multi / Continuous threading	
Feed function / Acc. & Dec. control	
Manual feed	Rapid traverse Jog : 0~2,000 mm/min (79 ipm) Manual handle : x1, x10, x100 pulses Reference position return
Cutting Feed command	Direct input F code
Feedrate override	0 ~ 200% (10% Unit)
Rapid traverse override	1%, F25%, 50%, 100%
Override cancel	
Feed per minute	G98
Feed per revolution	G99
Look-ahead block	1 block
Program input	
Tape Code	EIA / ISO
Optional block skip	1 ea
Absolute / Incremental program	G90 / G91
Program stop / end	M00, M01 / M02, M30
Maximum command unit	± 999,999.999 mm (± 99,999.9999 inch)
Plane selection	X-Y : G17 / Z-X : G18 / Y-Z : G19
Workpiece coordinate system	G52, G53, 6 pairs (G54 ~ G59)
Manual absolute	Fixed ON
Programmable data input	G10
Sub program call	10 folds nested
Custom macro	#100 ~ #199, #500 ~ #999
G code system	A, B/C
Programmable mirror image	G51.1, G50.1
G code preventing buffering	G4.1
Direct drawing dimension program	Including Chamfering / Corner R
Conversational Program	SmartGuide-i

Program input	
Multiple repetitive cycles	1, 11
Canned cycle for turning	
Auxiliary function / Spindle speed function	
Auxiliary function	M & 4 digit
Level-up M Code	High speed / Multi / Bypass M code
Spindle speed function	S & 5 digit, Binary output
Spindle override	0% ~ 150% (10% Unit)
Multi position spindle orientation	M19 (S##)
FSSB Rigid tapping	
Constant surface speed control	G96, G97
Tool function / Tool compensation	
Tool function	T & 2 digit + Offset 2 digit
Tool life management	
Tool offset pairs	128 pairs
Tool nose radius compensation	G40, G41, G42
Geometry / Wear compensation	
Direct input of offset measured B	
Editing function	
Part program storage size	5,120m (2MB)
No. of registerable programs	1,000 ea
Program protect	
Background editing	
Extended part program editing	Copy, move and change of NC program
Memory card program edit	
Data input / output & Interface	
I/O interface	CF card, USB memory Embedded Ethernet interface
Screen hard copy	
External message	
External key input	
External workpiece number search	
Automatic data backup	
Setting, display and diagnosis	
Self-diagnosis function	
History display & Operation	Alarm & Operator message & Operation
Run hour / Parts count display	
Maintenance information	
Actual cutting feedrate display	
Display of spindle speed / T code	
Graphic display	
Operating monitor screen	Spindle / Servo load etc.
Power consumption monitoring	Spindle & Servo
Spindle / Servo setting screen	
Multi language display	Support 24 languages
Display language switching	Selection of 5 optional Languages
LCD Screen Saver	Screen saver
Unexpected disturbance torque	BST (Back spin torque limit)
Function for machine type	
Cs contour control (C & A axes)	Mill, MS, Y, SY, LF-Mill, TTMS, TTSY
Polar coordinate interpolation	Mill, MS, Y, SY, LF-Mill, TTMS, TTSY
Cylindrical interpolation	Mill, MS, Y, SY, LF-Mill, TTMS, TTSY
Polygon turning (2 Spindles)	Mill, MS, Y, SY, LF-Mill, TTMS, TTSY
Canned cycle for drilling	Mill, MS, Y, SY, LF-Mill, TTMS, TTSY
Spindle orientation expansion	MS, SY TTS, TTMS, TTSY
Spindle synchronous control	MS, SY TTS, TTMS, TTSY
Torque control	MS, SY TTS, TTMS, TTSY
Y axis offset	Y, SY, TTSY
Arbitrary angular control	Y, SY, TTSY
Composite / Superimposed control	MS, SY, TTS, TTMS, TTSY
Balance cutting	TTS, TTMS, TTSY
Option	
Additional optional block skip	9 ea
Fast ethernet	Needed option board
Data server	Needed option board
Protection of data at 8 levels	
Tool offset pairs	200 pairs
Helical interpolation	
Optional block skip	40 ea, 200 ea (AICC 11)

Figures in inch are converted from metric values.

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

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