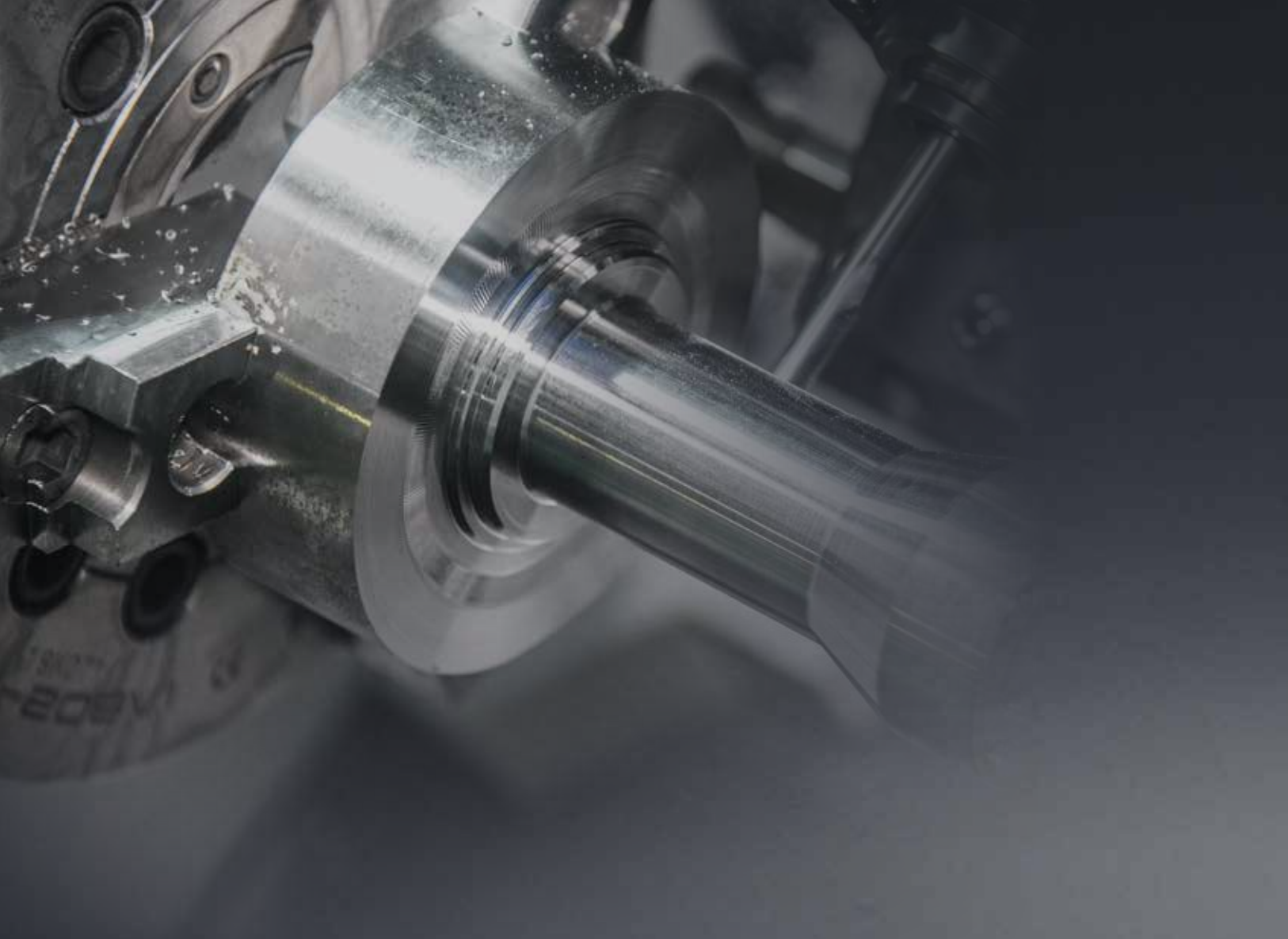


SE 2600 Series

High-speed 10" CNC Turning Center for Productivity

HYUNDAI WIA Middle Type CNC Turning Center



Technical Leader

The CNC Turning Center SE2600 Series, designed with HYUNDAI WIA's engineering expertise to maximize productivity by enhancing rigidity and accuracy of machining.

		SE2600	SE2600M
Max. Turning Dia.	mm(in)	Ø600 (Ø23.6")	
Max. Turning Length	mm(in)	660 (26")	610 (24")
Chuck Size	inch	10"	
Bar Capacity	mm(in)	Ø81 (Ø3.2")	
Spindle Speed (rpm)	r/min	3,500 [2,500]	
Motor (Max.)	kW(HP)	18.5/15 (25/20) [26/18.5 (35/25)]	
Travel (X/Z)	mm(in)	265/680 (10.4"/26.8")	255/680 (10"/26.8")
No. of Tools	EA	10 [12]	12 [24] (BMT55)

[] : Option

SE 2600 Series

High-speed 10" CNC Turning Center for Productivity

- 30° slanted one-piece bed structure with high rigidity
- Ensured high-rigidity applying Roller guideway on all axes (X/Z-axis: 30/30 m/min)
- High-rigidity and high-speed servo turret (Expanded disk width)
- Improved user convenience by applying the latest controller of FANUC
- Ergonomic design for convenient access to chuck and tool



01 BASIC STRUCTURE

The Best Productivity 10" CNC Turning Center

Turret

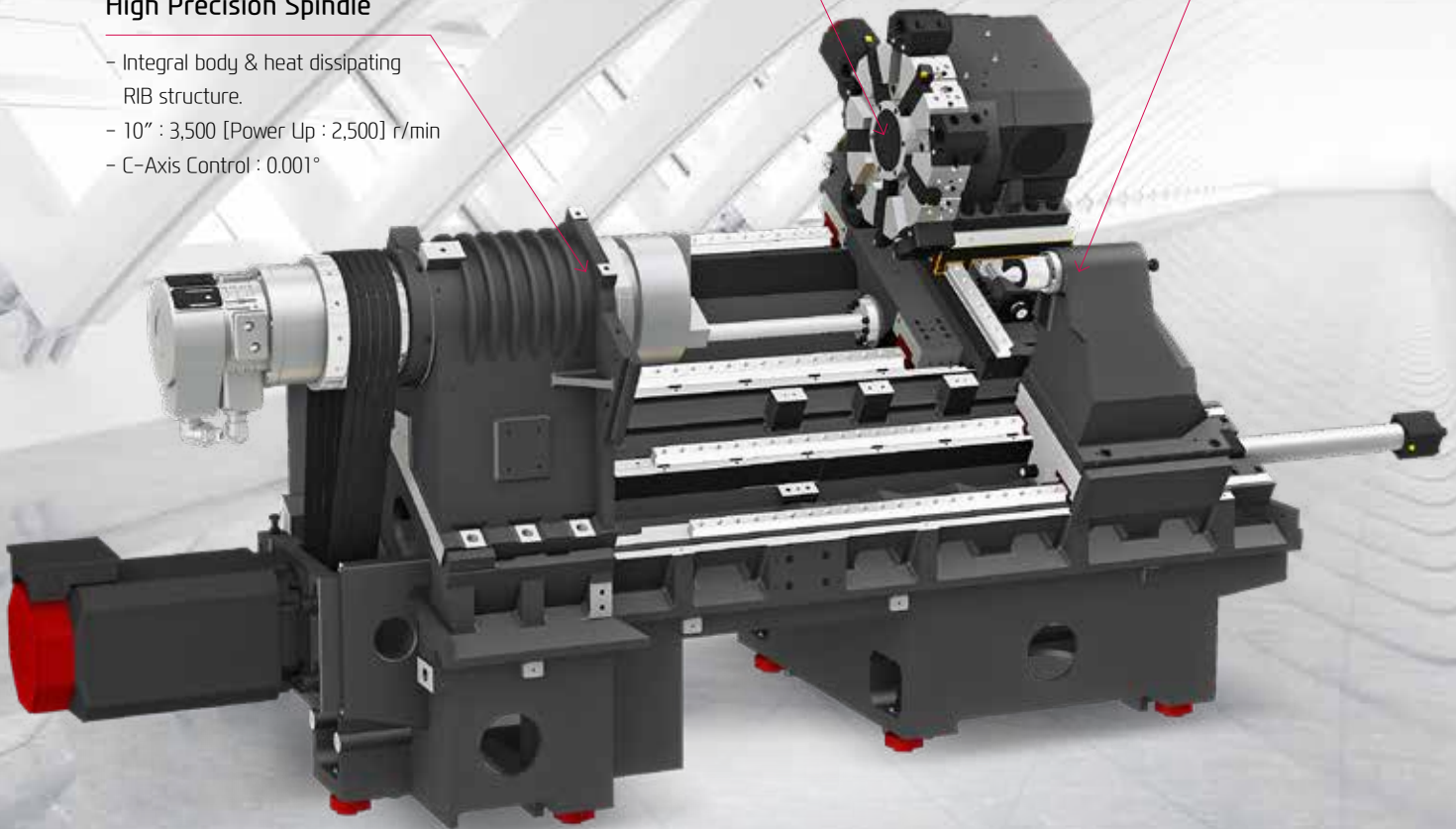
- 10 [12] EA
- O.D./I.D.
 - SE2600 : $\square 25/\varnothing 50$ ($\square 1''/\varnothing 2''$)
 - SE2600M : $\square 25/\varnothing 40$ ($\square 1''/\varnothing 1\ 1/2''$)
- BMT55 : 12 [24] EA ('M' Type)

Tail Stock

- MT#4
- Hydraulic NC Tailstock

High Precision Spindle

- Integral body & heat dissipating RIB structure.
- 10" : 3,500 [Power Up : 2,500] r/min
- C-Axis Control : 0.001°

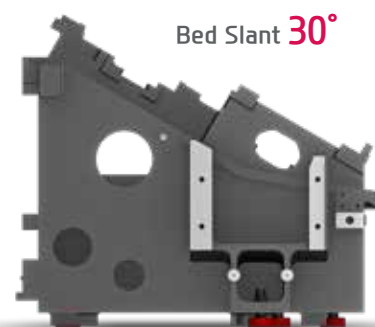


REDUCTION OF NON-CUTTING TIME BY FAST RAPID SPEED

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 SE2600 Series bed slope is pitched at 30 degrees to ensure more stable machining.



ENHANCED VIBRATION ABSORPTION THANKS TO INCREASED GROUND AREA

Floor Space (L×W)

3,255×1,900 mm (128.1"×74.8")

GUIDEWAY

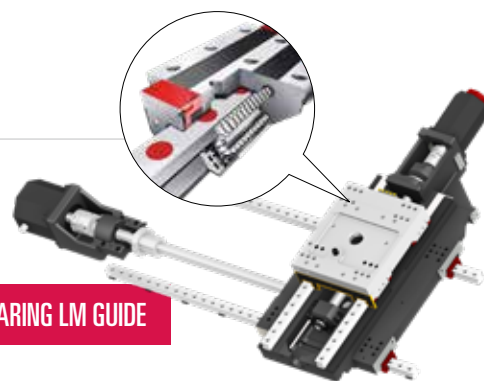
High-Speed Roller LM Guideway

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

RIGIDITY HAS INCREASED 30% COMPARED TO THE BALL BEARING LM GUIDE

Rapid Traverse Rate
(X/Z)

30/30 m/min (1,181/1,181 ipm)



Ball Screw

Travel is stabilized by fastening both ends of the ball screw using the double anchored method. In particular, a large diameter ball screw with proper preload reinforces sturdiness and resistance to thermal displacement.

Travel (X/Z)

SE2600

265/680 mm (10.4"/26.8")

SE2600M

255/680 mm (10"/26.8")

02 HIGH PRECISION SPINDLE

Long Lasting, High Accuracy & Excellent Performance CNC Turning Center

Spindle Specifications

[] : Option

Model	Spindle Speed	Motor (Max./Cont.)	Torque (Max./Cont.)
SE2600 Series	3,500 rpm	18.5/15 kW (25/20 HP)	470.9/286.4 N·m (347.3/211.2 lbf·ft)
	[2,500 rpm]	[26/18.5 kW (35/25 HP)]	[734/522 N·m (541.4/385 lbf·ft)]

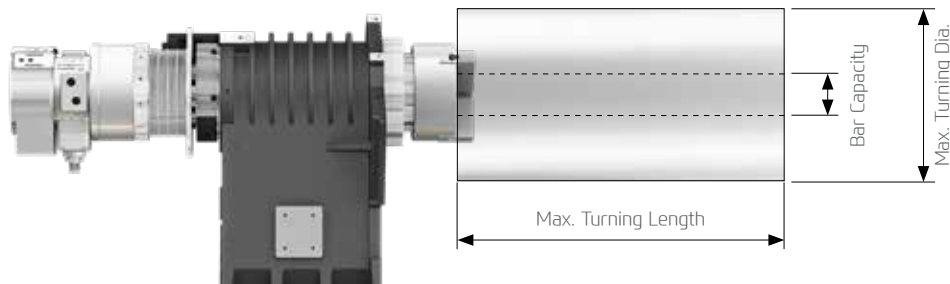
HEAVY DUTY CUTTING & HIGH ACCURACY

MAIN SPINDLE

Spindle for Heavy Cutting

The main spindle is designed with the same structure as that 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.



Model	Chuck Size	Max. Turning Length	Max. Turning Dia.	Bar Capacity
SE2600	10 inch	660 mm (26")	Ø460 mm (18.1")	Ø81 mm (3.1")
SE2600M		610 mm (24")	Ø380 mm (15")	

C-AXIS CONTROL

The main spindle of the SE2600 series is a **Bz sensor**, so it is possible to process products of various shapes through C-axis control.

C-Axis Control : 0.001°



03 SERVO TURRET

High speed, High Accuracy, Highly Reliable Servo Turret

Servo Turret (SE2600)

No. of Tools

10 [12]^{EA}

Tool Size (O.D./I.D)

□ 25/Ø50 mm (□ 1"/Ø2")

Indexing Time

0.15^{sec}

Mill Turret (SE2600M)

Type	Speed	Motor (Max./Cont)	Torque (Max./Cont)	Collet Size
BMT55	6,000 rpm	5.5/3.7 kW (7.4/5 HP)	52.5/26.5 N·m (38.7/19.5 lbf.ft)	ER25 (Ø16)

Quantity of mill turret tools: Std. 2ea / Opt. 24ea - Various machining with increased capacity (Prior model : max. 12ea)

VARIOUS DRIVEN PRECISION BMT TOOL HOLDERS

SERVO TURRET

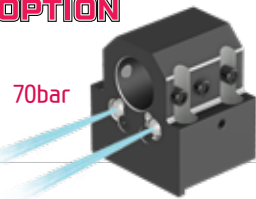


Servo Turret (SE2600)

The turret of SE2600 series is applied with high performance AC servo motor, improving machining reliability. 3-piece coupling shows excellent performance in indexing. Powerful hydraulic tool clamping minimizes tool tip deviation caused by load.

70Bar High Pressure Coolant **OPTION**

Turret is designed to utilize 70bar high pressure coolant and it shows optimum performance in machining difficult-to-cut material.



MILL TURRET

BMT55 Turret (SE2600M)

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.



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

The SE600M 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.

❖ Consultation needed when ordering these options.

04 USER CONVENIENCE

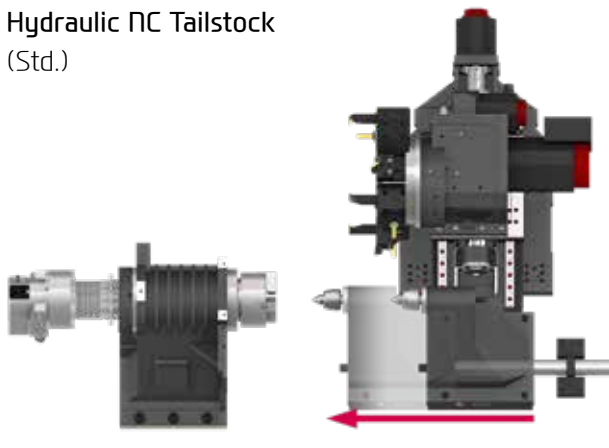
Various Devices for User Friendly

HYDRAULIC NC TAILSTOCK

Hydraulic NC Tailstock with Position Control

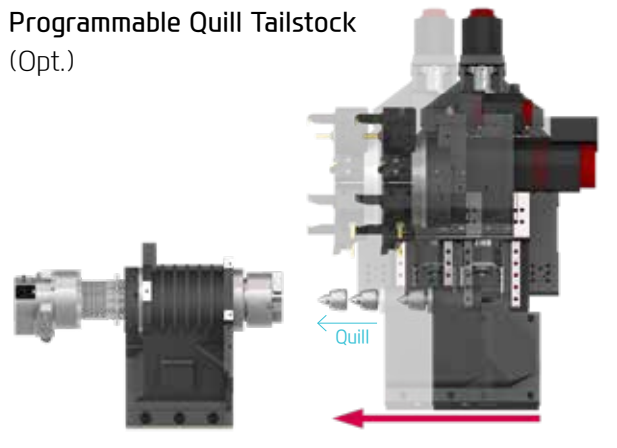
The hydraulic NC tailstock applied to the SE2600 series enables independent transfer through a program independently of the turret movement and it simultaneously achieved "Improvement of user convenience" and "Reduction of cycle time".

Hydraulic NC Tailstock
(Std.)



- > Structure in which the tailstock moves independently from the turret (Position control : 0.1mm)
- > Stabilization of tailstock body hydraulic pressure
- > Turret moves independently while the tailstock moves to reduce machining setup time
- > Standard application (MT#4 live center application)

Programmable Quill Tailstock
(Opt.)

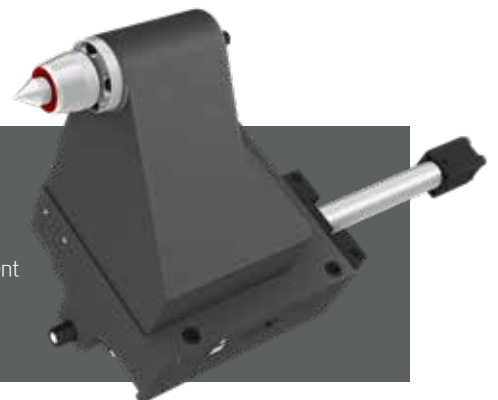


- > A structure that moves by fixing the tailstock to the turret
- > After fixing the tailstock, the quill operated by hydraulic pressure advances to stabilize the material
- > High rigidity tail spindle and enhancement in thrust
- > Suitable for workpieces subject to vibration during machining and heavy machining load



HW-TMS (TAILSTOCK OPERATION)

This software is capable of manipulation and data management of tailstock operations through intuitive GUI.



CHIP DISPOSAL SOLUTION



Separation Type Coolant Tank

The user convenience has been significantly improved by the separation type coolant tank without having to separate the chip conveyor .

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	Material : Steel, Casting	
	Compresses and ejects chips to reduce chip Trouble.		
❖ 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.

HIGH PRECISION SYSTEM & COOLANT UNIT



Automatic Q-Setter



Linear Scale



Work Probe



Standard Coolant (Nozzle)



Chuck Coolant (Upper Chuck)



Chuck Air Blow (Upper Chuck)

05 HYUNDAI WIA FANUC – SMART PLUS

The Compatible All-round Control



15" Touch-type Monitor as a standard

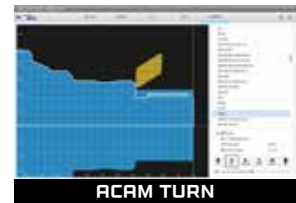
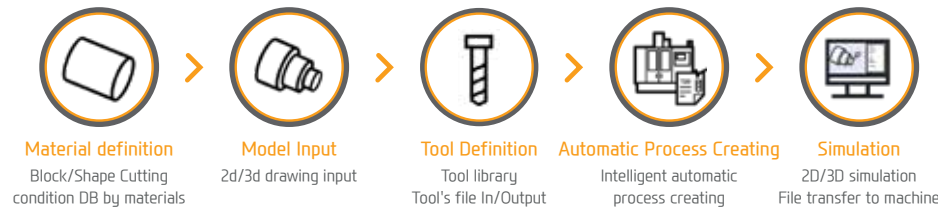
	Fast Cycle Time Technology
Smart Machine Control	Fine Surface Technology
	Smart Servo Control Technology
Conversational Program	SmartGuide-i
i-HMI	Machining-aid Function
Part Program Storage	5120M (2MB)
No. of Registerable Programs	1000 EA

ACAM (Automatic CAM)

Cloud-based
Intelligent Programming



Cloud-based automatic CAM S/W that automatically creates NC programs only by inputting drawing files



MMS (Machine Monitoring System)



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



1. MMS Cloud

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

2. MMS Edge

A client server-based tool monitoring system for collection/analysis of facility operation data. (Compatible with client MES / ERP interface)

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.

SPECIFICATIONS

Standard & Optional

Spindle		SE2600	SE2600M
Main Sp. Hollow Chuck 3 Jaw	10"	●	●
	12"	○	○
Main Sp. Solid Chuck 3 Jaw	10"	○	○
	12"	-	-
Standard Soft Jaw (1set)		●	●
Chuck Clamp Foot Switch		●	●
2 Steps Hyd. Pressure Device		○	○
Spindle Inside Stopper		☆	☆
Cs-Axis		● (0.03°)	● (0.001°)
Chuck Open/Close Confirmation Device		●	●
2 Steps Chuck Foot Switch		○	○
Turret			
Tool Holder		●	●
Mill Turret	BMT	-	●
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		●	●
Drill Socket		○	○
U-Drill CAP		●	●
Angle Head		-	☆
Tail Stock & Steady Rest			
Hydraulic NC Tail Stock (Std. Live Center)		●	●
Quill Type Tail Stock	Manual	○	○
	Programmable	○	○
	MT4 Live	○	○
	MT5 Live	○	○
	MT4 Built-in	○	○
High Precision Live Center		☆	☆
2 Steps Tail Stock Pressure System		-	-
Quill Forward/Reverse Confirmation Device		○	○
Tail Stock Foot Switch		○	○
Coolant & Air Blow			
Standard Coolant (Nozzle)		●	●
Chuck Coolant (Upper Chuck)		○	○
Gun Coolant		○	○
Through Spindle Coolant (Only for Special Chuck)		☆	☆
Chuck Air Blow (Upper Chuck)		-	-
Sub Chuck Air Blow		○	○
Turnmill Through Coolant		-	○
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(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	☆	☆
Safety Device			
Front Door Interlock		●	●
Total Splash Guard		●	●
Back Spin Torque Limiter (BST)		●	●
Chuck Hydraulic Pressure Maintenance Interlock		☆	☆
ETC			
Tool Box		●	●
Customized Color	Need Munsell No.	☆	☆
CAD & CAM		☆	☆

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

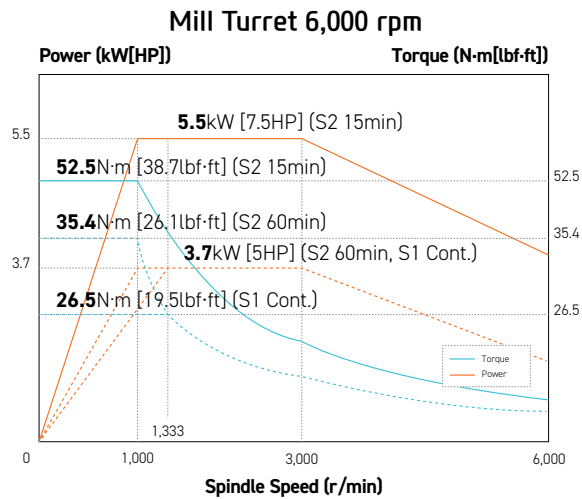
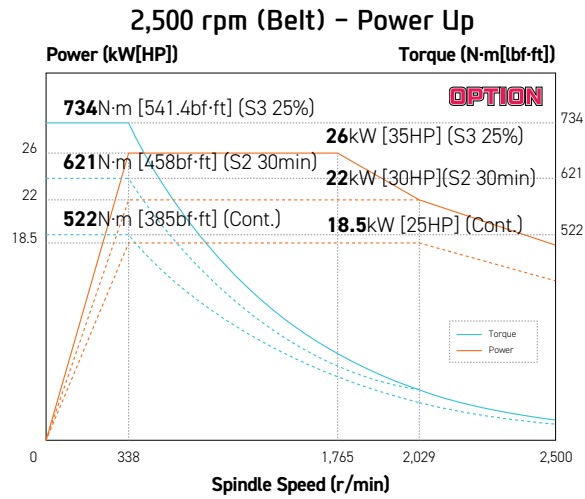
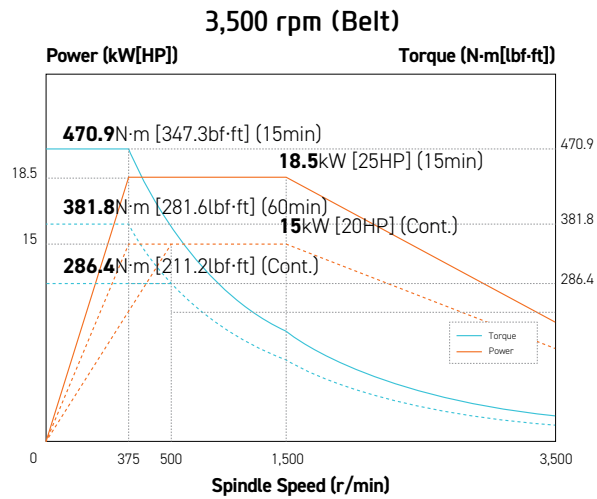
Electric Device		SE2600	SE2600M
Call Light	1Color : ●	●	●
Call Light & Buzzer	3Color : ● ● ● B	○	○
Electric Cabinet Light		○	○
Remote MPG		○	○
Work Counter	Digital	○	○
Total Counter	Digital	○	○
Tool Counter	Digital	○	○
Multi Tool Counter	6ea	○	○
	9ea	○	○
Electric Circuit Breaker		○	○
AVR (Auto Voltage Regulator)		☆	☆
Transformer	25kVA	○	○
Measurement		○	○
측정			
Q-Setter		○	○
Automatic Q-Setter		○	○
Work Close Confirmation Device (Only for Special Chuck)	TACO	○	○
	SMC	○	○
Work Setter		☆	☆
Linear Scale	X axis	○	○
	Z axis	○	○
Coolant Level Sensor (Only for Chip Conveyor)		☆	☆
Environment			
Air Conditioner		○	○
Dehumidifier		○	○
Oil Mist Collector		☆	☆
Oil Skimmer (Only for Chip Conveyor)		○	○
MQL (Minimal Quantity Lubrication)		☆	☆
Fixture & Automation			
Auto Door	High-speed	○	○
Auto Shutter (Only for Automatic System)		○	○
Sub Operation Pannel		☆	☆
Bar Feeder Interface		○	○
Bar Feeder (FEDEK)		☆	☆
Extra M-Code 4ea		○	○
Automation Interface		☆	☆
I/O Extension (IN & OUT)	16 Contact	○	○
	32 Contact	○	○
Parts Catcher		○	○
Turret Work Pusher (For Automation)		☆	☆
Parts Conveyor (Required Main Parts Catcher)		○	○
Semi Automation System		☆	☆
Hyd. Device			
Standard Hyd. Cylinder	Hollow	●	●
Standard Hyd. Unit	35bar/20ℓ (5.3gal)	●	●
S/W			
Automatic CAM (HW-ACAM)		-	-
Dialogue Program (HW-DPRO)		○	○
DNC software (HW-eDNC)		○	○
Machine Monitoring System (HW-MMS Cloud)		☆	☆
Machine Monitoring System (Customer Installation : HW-MMS Edge)		☆	☆
SmartGuide-i : FANUC		●	●
Smart S/W		☆	☆

❖ 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. / Please refer to the S/W catalog (iRIS) for details by S/W product.

SPECIFICATIONS

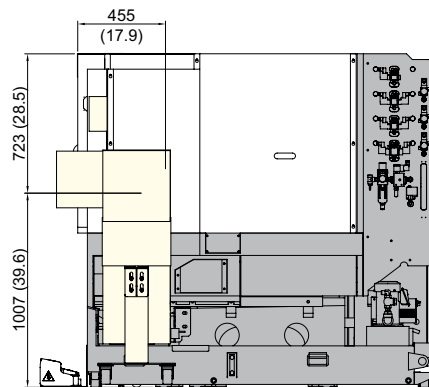
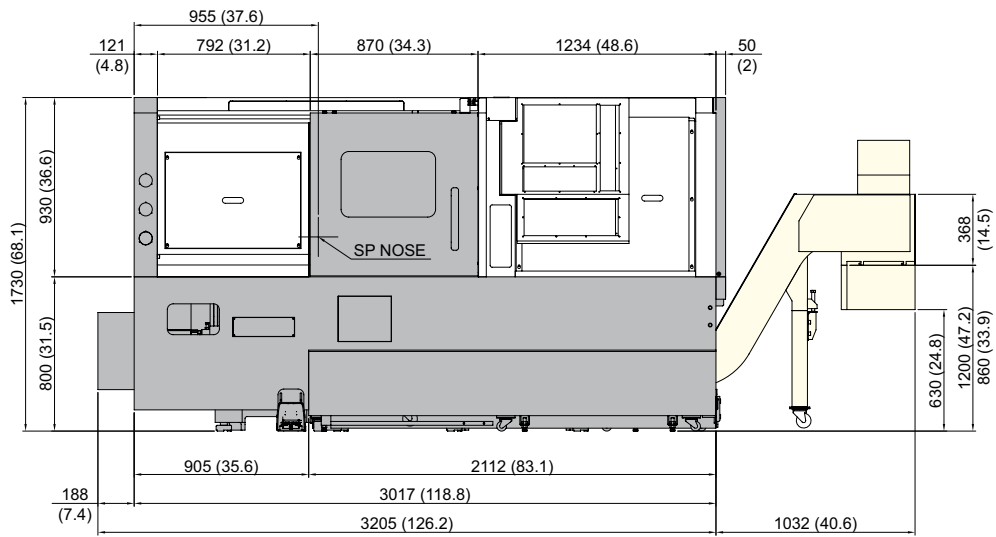
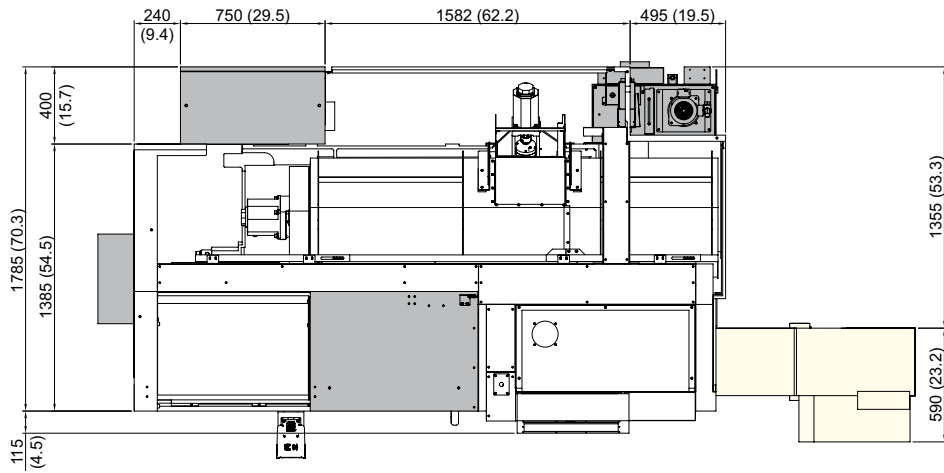
Spindle Output/Torque Diagram



SPECIFICATIONS

External Dimensions

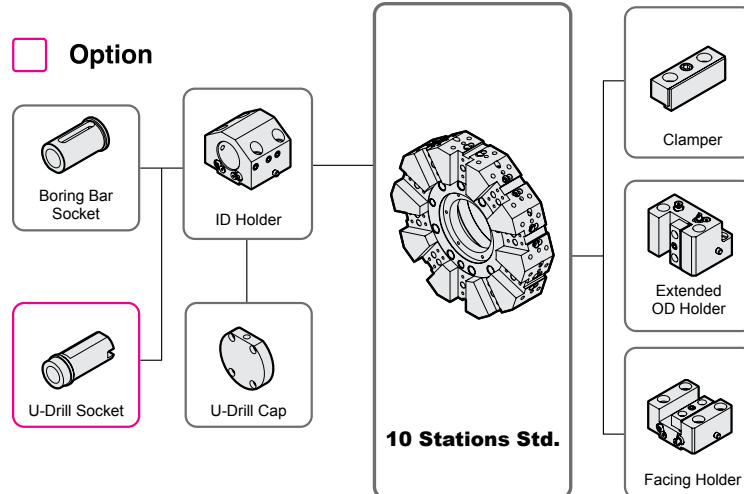
unit : mm(in)



SPECIFICATIONS

Tooling System

unit : mm(in)



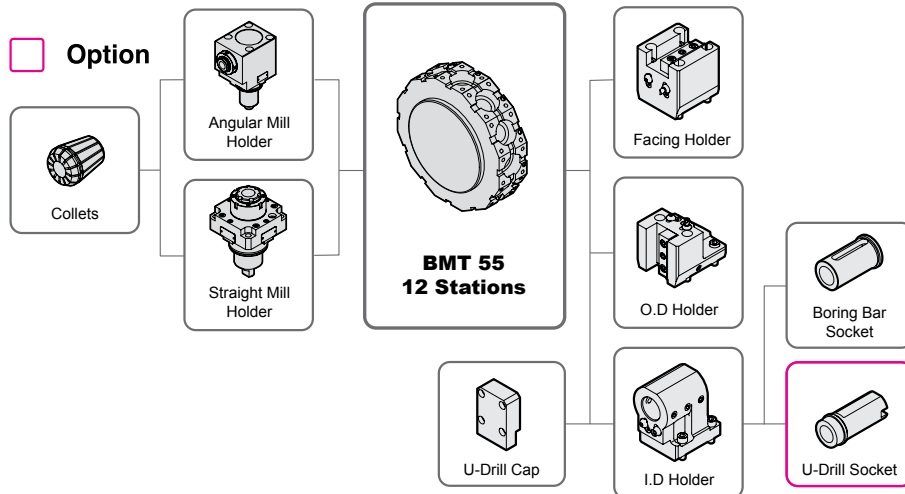
Tooling Parts Detail

ITEM			SE2600	
			mm Unit	inch Unit
Turning Holder	Clamper		5	5
	O.D Holder	Extension	Opt.	Opt.
	Facing Holder		1	1
Boring Holder	I.D Holder	Single	4	4
	U-Drill	Cap	1	1
Driven Holder	Straight Mill Holder	Standard	-	-
		TTC	-	-
	Angular Mill Holder	Standard	-	-
		TTC	-	-
Socket	Boring	Ø12 (Ø1/2")	1	1
		Ø16 (Ø5/8")	1	1
		Ø20 (Ø3/4")	1	1
		Ø25 (Ø1")	1	1
		Ø32 (Ø1 1/4")	1	1
		Ø40 (Ø1 1/2")	1	1
	Drill	MT 1 x MT 2	Opt.	Opt.
		MT 2	Opt.	Opt.
		MT 3	Opt.	Opt.
		MT 4	Opt.	Opt.
	ER Collet		-	-

SPECIFICATIONS

Tooling System

unit : mm(in)



Tooling Parts Detail

ITEM			SE2600M	
			mm 단위	inch 단위
Turning Holder	O.D Holder	Right/Left	4	4
		Extension	-	-
	Facing Holder		1	1
Boring Holder	I.D Holder	Single	3	3
	U-Drill	Cap	1	1
Driven Holder	Straight Mill Holder	Standard	2	2
		TTC	-	-
	Angular Mill Holder	Standard	2	2
TTC		-	-	
Socket	Boring	Ø10 (Ø3/8")	1	1
		Ø12 (Ø1/2")	1	1
		Ø16 (Ø5/8")	1	1
		Ø20 (Ø3/4")	1	1
		Ø25 (Ø1")	1	1
		Ø32 (Ø1 1/4")	1	1
		Ø40 (Ø1 1/2")	-	-
	Drill	MT 1 x MT 2	Opt.	Opt.
		MT 2	Opt.	Opt.
		MT 3	Opt.	Opt.
ER Collet		1 Set	1 Set	
Adapter Set		Opt.	Opt.	

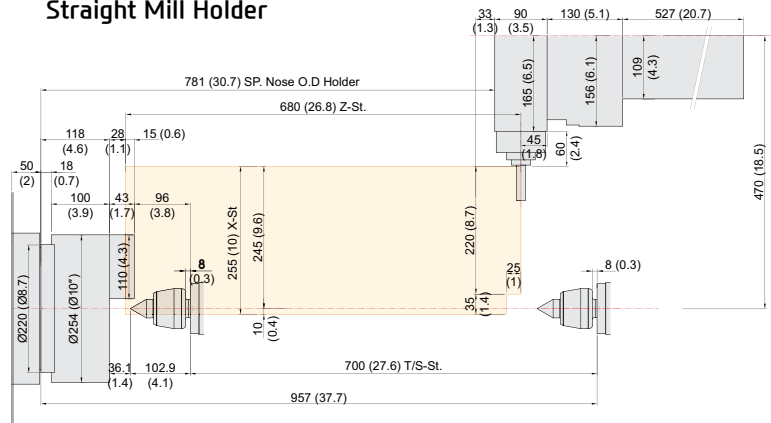
Specifications are subject to change without notice for improvement.

SPECIFICATIONS

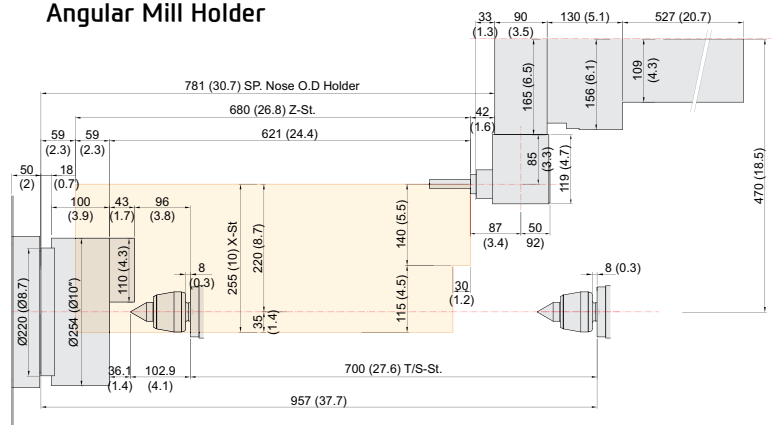
Tooling Travel Range

unit : mm(in)

Straight Mill Holder



Angular Mill Holder



SPECIFICATIONS

Specifications

[] : Option

MODEL		SE2600	SE2600M	
CAPACITY	Swing Over the Bed	mm(in)	Ø600 (Ø23.6")	
	Swing Over the Carriage	mm(in)	Ø460 (18.1")	
	Max. Turning Dia.	mm(in)	Ø460 (18.1")	Ø380 (15")
	Max. Turning Length	mm(in)	660 (26")	610 (24")
	Bar Capacity	mm(in)	Ø81 (3.2")	
SPINDLE	Chuck Size	inch	10"	
	Spindle Bore	mm(in)	Ø91 (3.6")	
	Spindle Speed (rpm)	r/min	3,500 [2,500]	
	Motor (Max/Cont.)	kW(HP)	18.5/11 (25/15) [26/18.5 (35/25)]	
	Torque (Max/Cont.)	N·m (lbfft)	470.9/286.4 (347.3/211.2) [734/522 (541.4/385)]	
	Spindle Type	-	BELT	
	Spindle Nose	-	A2-8	
C-axis Indexing	deg	0.001°		
FEED	Travel (X/Z)	mm(in)	265/680 (10.1"/26.8")	255/680 (10"/26.8")
	Rapid Traverse Rate (X/Z)	m/min (ipm)	30/30 (1,181/1,181)	
	Slide Type	-	ROLLER LM GUIDE	
TURRET	No. of Tools	ea	10 [12]	12 [24]
	Tool Size	OD	□ 25 (□ 1")	
		ID	Ø50 (Ø2")	Ø40 (Ø1 1/2")
	Indexing Time	sec	0.15	
LIVE TOOL	Motor (Max/Cont.)	kW(HP)	-	5.5/3.7 (7.4/5)
	Milling Tool Speed (rpm)	r/min	-	6,000
	Torque (Max/Cont.)	N·m (lbfft)	-	52.5/26.5 (38.7/19.5)
	Collet Size	mm(in)	-	Ø16 (0.6") : ER25
	Type	-	-	BMT55
TAIL STOCK	Taper	-	MT#4	
	Quill Dia.	mm(in)	Ø56 (Ø2.2")	
	Quill Travel	mm(in)	-	
	Travel	mm(in)	700 (Ø27.6")	
TANK CAPACITY	Coolant Tank	ℓ(gal)	200 (52.8)	
	Lubricating Tank	ℓ(gal)	0.7 (0.18)	
POWER SUPPLY	Electric Power Supply	kVA	18	
	Thickness of Power Cable	mm ²	Over 16	
	Voltage	V/Hz	220/60 (200/50*)	
MACHINE	Floor Space (L×W)	mm(in)	3,255×1,900 (128.1"×74.8")	
	Height	mm(in)	1,730 (68.1")	
	Weight	kg(lb)	4,200 (9,259)	4,300 (9,480)
PC	Controller	-	HYUNDAI WIA FANUC i Series - Smart Plus	

Specifications are subject to change without notice for improvement.

CONTROLLER

HYUNDAI WIA FANUC – 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	
Pano 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	9 ea
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 Off
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	I, II
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##)
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	
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 II)

Figures in inch are converted from metric values.

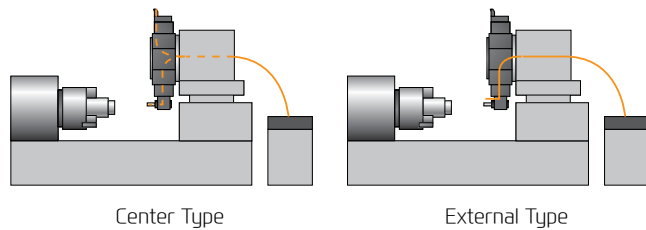
The FANUC controller specifications are subject to change based on the policy of company CNC supplying.

HYUNDAI WIA ECO SYSTEM

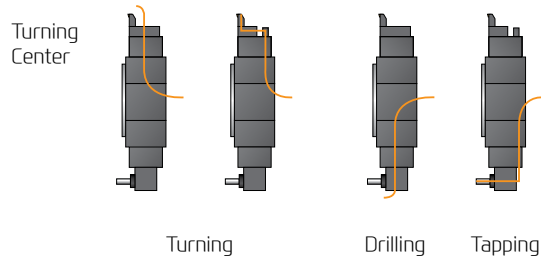
MQL (Minimal Quantity Lubrication)

The goal of this system is to spray only the amount of lubricant required to prevent heat and chip build up at the cutting tool or work piece face.

Example of Turning Center Application



Example of Etc.



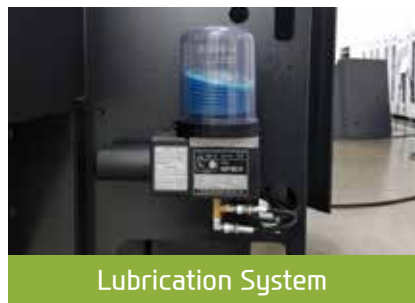
Oil Skimmer

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



Mist Collector

Mist Collector reduces the amount of smoke and oil mist in the air. This helps build a safe and comfortable working environment and improve durability.



Lubrication System

By applying lubricant only when the machines axis are moving lubrication consumption is reduced by compared to standard systems.

HYUNDAI WIA ENERGY SAVING

HW-ESS (HYUNDAI WIA Energy Saving System)

HYUNDAI WIA Machine tool provides the optimum power saving function that can easily save energy with an intuitive user interface.



1. **Machine-ready power saving function** : Put all servo motors and other motors into sleep mode when no control or operation is done for a set time
2. **Work light auto-off function** : The work light is turned off automatically when no control or operation is done for a set time
3. **Chip conveyor auto power saving** : Operation/non operation time (timer) can be set to save energy
4. **Auto Power-off** : Auto power off after ending the an operation after a period of time
5. **Eco function** : Machine ready sleep mode can be activated/de-activated from the controller panel
6. **Power consumption monitor** : Real time power consumption can be monitored through the OP screen



You Tube HYUNDAI WIA MT

www.youtube.com/HYUNDAIWIAMT

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