

# E200 Series

HYUNDAI WIA CNC Turning Center



# Technical Leader

The CNC Turning Center E200 Series, designed by Hyundai WIA with years of expertise and the latest technology, is designed to maximize productivity by enhancing both technical performance and economic efficiency.



MODEL	Chuck Size		Guideway		Turret	
	6"	8"	LM	Box	Standard	Turn Mill
E200A	•		•		•	
E200C		•	•		•	
E200MA	•		•			•
E200MC		•	•			•
E200PA	•			•	•	
E200PC		•		•	•	

High Speed, Rigidity and Productivity  
Economical CNC Turning Center for next generation

# E200 Series

- 45° slanted one-piece bed structure with high rigidity
- Stabilized unit structure to minimize thermal displacement
- High productivity achieved with its mechanism
- Unbeatable rapid traverse rate : 36m/min {1,417ipm} (E200A/MA/C/MC)
- The most reliable high speed servo turret : 0.1sec/step
- Application of boxguideways for heavy duty cutting (E200PA/PC)
- Compact design suitable for installation in restricted space.
- Ergonomic design for convenient access to chuck and tool

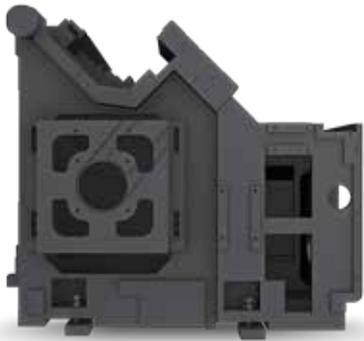


# 01

E200 Series

## Basic Features

The Best Productivity 6 inch / 8 inch Compact CNC Turning Center



01

### High Precision, High Rigidity One-piece Structure

The E200 Series is designed with a 45 degree slanted bed combined with square type and tube type rib structure. This special design enhances rigidity and vibration absorbing capability, allowing powerful cutting with high precision.

### Guideway

E200A/C is designed with LM Guideways for all axes for better speed and response.

LM Guideway reduces non-cutting time and achieves a rapid traverse rate of 36m/min, which increases productivity.

E200PA/PC is designed with box guideways for all axes for stable heavy duty cutting.



**Box Guideway**  
(E200PA/PC)



**LM Guideway**  
(E200A/MA/C/MC)

### Ball Screw

In order to eliminate thermal growth and increase accuracy, all axis are driven by high precision double anchored ballscrews.

02

### Main Spindle

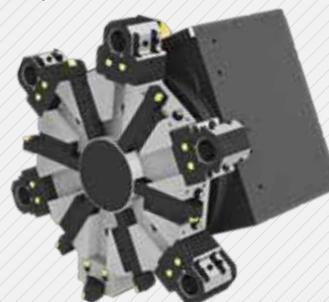
Heat produced by the main spindle is blocked by applying a symmetric one-piece base and an insulation plate. This enables maintenance of high accuracy even during a long period of machining.



03

### Turret

The turret is driven by a servo motor at a remarkably high speed indexing time of 0.12sec/step. Cycle time is reduced and productivity is improved.



04

## Basic Features



### Reduction of non-cutting time by traverse rate

- **Rapid Traverse Rate** (X/Z axis)

E200A | E200C | E200MA | E200MC : **36/36** m/min (**1,417/1,417** ipm)

E200PA | E200PC : **24/24** m/min (**945/945** ipm)

- **Travel** (X/Z axis)

E200A | E200C : **210/330** mm (**8.3"/13"**) E200MA | E200MC : **210/286** mm (**8.3"/11.3"**)

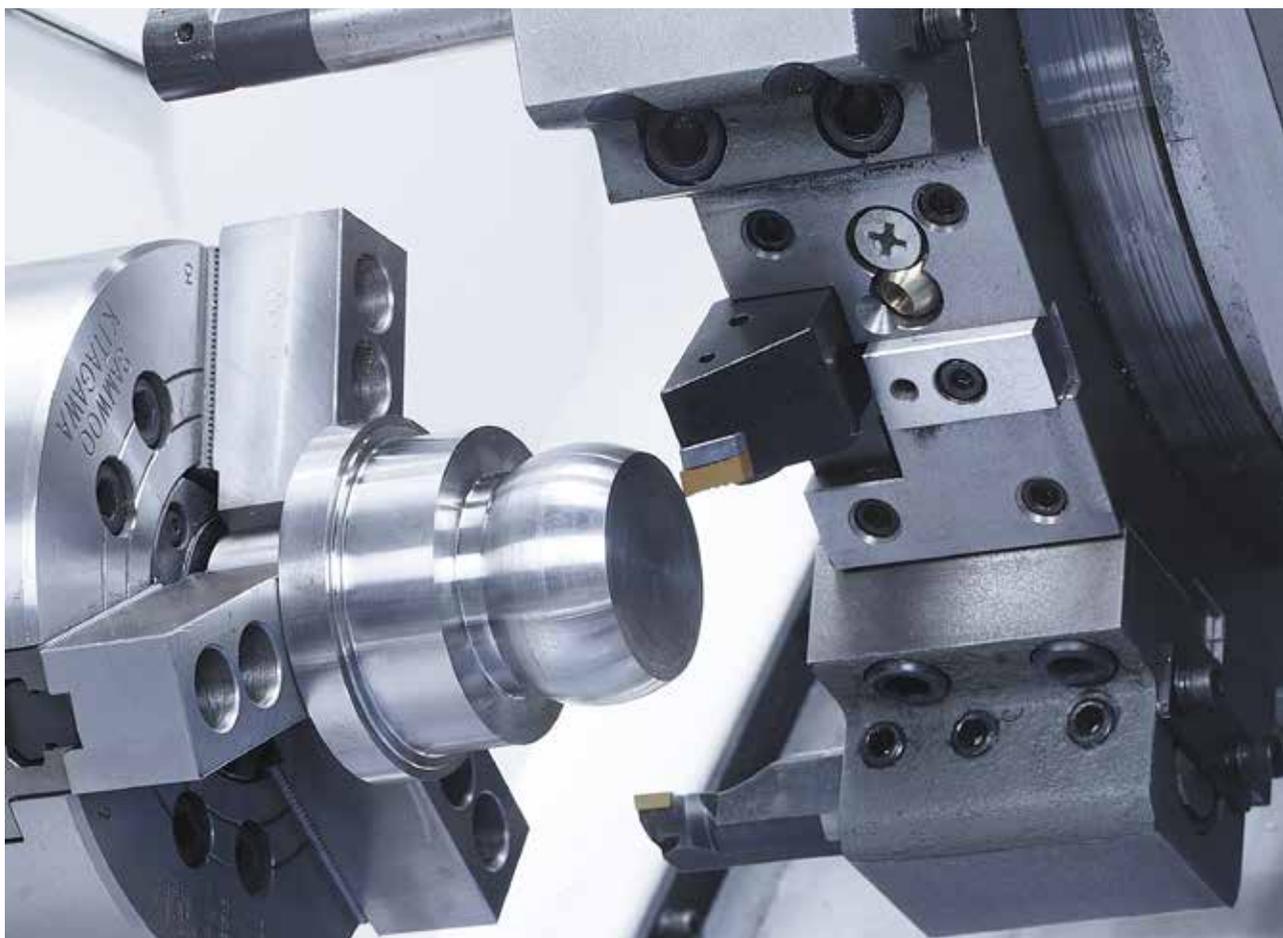
E200PA | E200PC : **210/310** mm (**8.3"/12.2"**)

# 02

E200 Series

## High Precision Spindle

Long Lasting High Accuracy & Excellent Performance  
CNC Turning Center



### Main Spindle

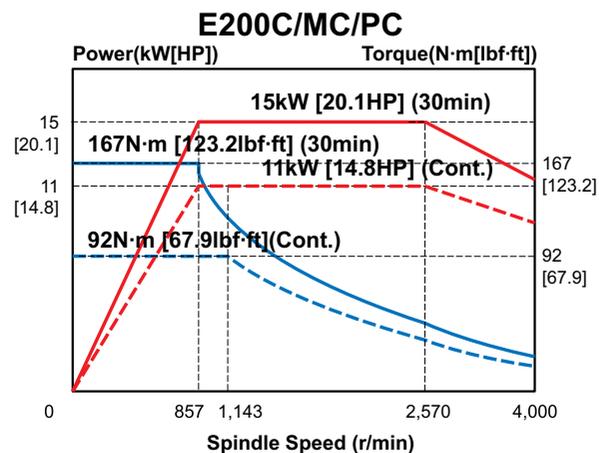
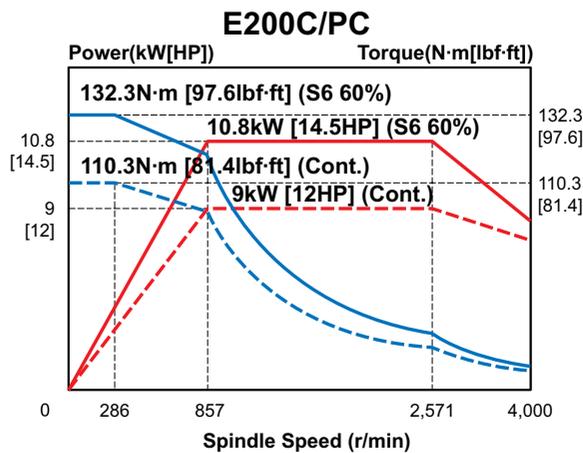
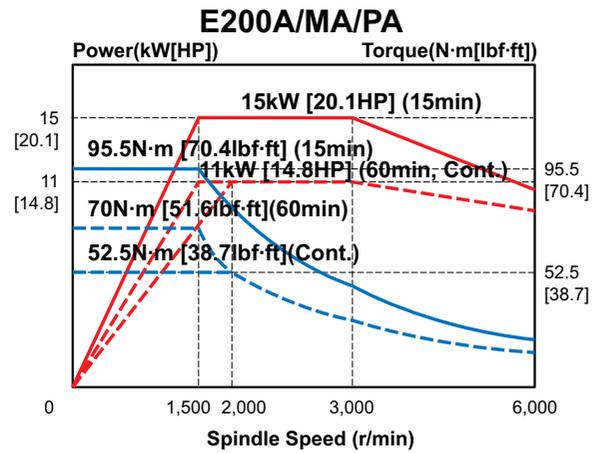
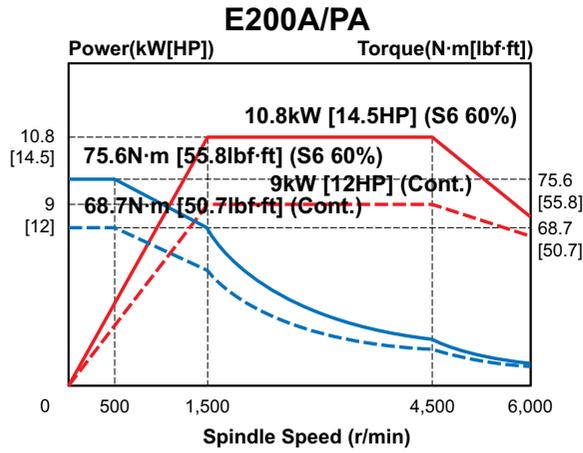
The spindle has a wide span of nominal production. The spindle structure is designed to minimize thermal displacement and perform high precision cutting during high speed and repeated cutting. By enlarging the spindle diameter and thickness, its rigidity is increased. Especially, high precision angular ball bearing designed spindle reduces noise and increases accuracy.

### C-Axis Control

C-axis with BZ-Sensor performs 0.001°(Command) split angle and position control in order to process various products. (E200MA/MC)

## SIEMENS

## FANUC



### Tail Stock OPTION

It is possible to process with stability by adopting 80mm(3.1") movable tailstock as an option

Taper : **MT4**

Quill Travel :

Quill Dia. : **Ø65 (Ø2.5")**    **80 mm (3.1")**



**n3**  
E200 Series

## Servo Turret

High speed, High Accuracy, Highly Reliable  
Servo Turret



### Turret

The E200 Series has a high performance AC servo motor and 3-piece coupling attached to the turret which enhances its process reliability. Powerful hydraulic tool clamping minimizes tool tip deviation which happens due to the load during heavy duty cutting.

## Mill Turret (VDI)

By adopting 3-piece coupling, it ensures powerful clamping and turret indexing and tool rotation is done by a single motor.

VDI method makes tool change easier and especially reduces tool change time so that it offers a great convenience.



## Mill Tool Holder

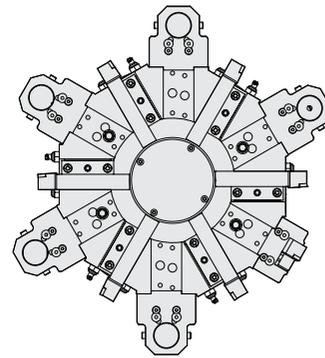
Straight Milling Head and Angular Milling Head live tools can be utilized to cut sides and inner diameters of workpieces.

Also, Drill, Tap, Endmill and many more tools can be utilized to enhance productivity and efficiency.

### Straight Milling Head



### Angular Milling Head

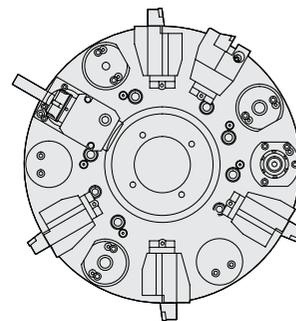


### E200A | PA

- ⊙ Number of Tools : 12 EA
- ⊙ Tool Size (O.D/I.D)  
□ 25/Ø32 ( □ 1"/Ø1.3" )
- ⊙ Indexing Time : 0.12 sec/step

### E200C | PC

- ⊙ Number of Tools : 12 EA
- ⊙ Tool Size (O.D/I.D)  
□ 25/Ø40 ( □ 1"/Ø1.6" )
- ⊙ Indexing Time : 0.12 sec/step



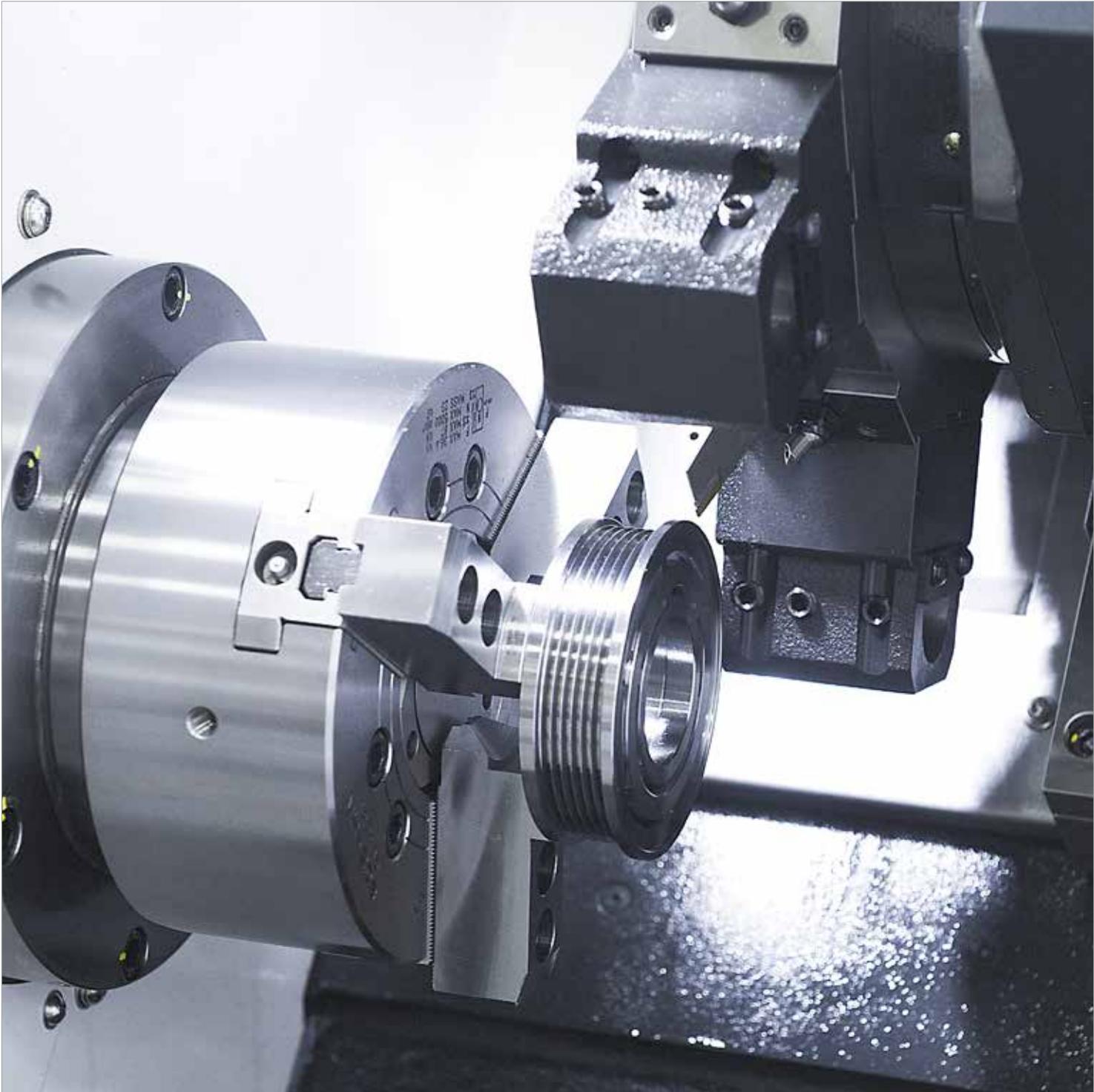
### E200MA | MC (Mill Turret)

- ⊙ Output (Max./Cont.) :  
8.8/3 kW ( 11.8/4 HP )
- ⊙ Speed : 4,500 rpm
- ⊙ Collet size : Ø16 (Ø0.6") (ER25)
- ⊙ Type : VDI30

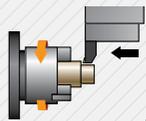
**n4**  
E200 Series

## Machining Capability

Excellent Performance, High Accuracy Cutting  
CNC Turning Center



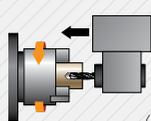
## E200A



### Cutting (O.D)

(Material:JIS)-S45C(Carbon steel)

Processing diameter	Ø42 (Ø1.65")
Side cutting depth	4 mm (0.157")
Cutting speed	198 m/min (7,795 ipm)
Spindle rpm	1,500 r/min
Forwarding speed	0.45 mm/rev (0.17"/rev)
Chip discharge	356 cc/min

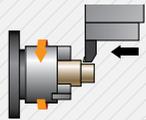


### Drilling

(Material:JIS)-S45C(Carbon steel)

Work diameter	Ø70 (Ø2.75")
Drill diameter	Ø37 (Ø1.45")
Cutting speed	104 m/min (4,094 ipm)
Spindle rpm	895 r/min
Forwarding speed	0.4 mm/rev (0.15"/rev)
Chip discharge	385 cc/min

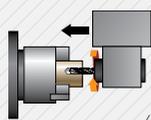
## E200MA



### Cutting (O.D)

(Material:JIS)-S45C(Carbon steel)

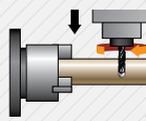
Processing diameter	Ø42 (Ø1.65")
Side cutting depth	4 mm (0.157")
Cutting speed	198 m/min (7,795 ipm)
Spindle rpm	1,500 r/min
Forwarding speed	0.45 mm/rev (0.17"/rev)
Chip discharge	356 cc/min



### Drilling

(Material:JIS)-S45C(Carbon steel)

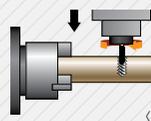
Work diameter	Ø50 (Ø1.97")
Drill diameter	Ø22 (Ø0.87")
Cutting speed	28 m/min (866 ipm)
Spindle rpm	400 r/min
Forwarding speed	0.4 mm/rev (0.15"/rev)
Chip discharge	61 cc/min



### X-Axis Drilling

(Material:JIS)-S45C(Carbon steel)

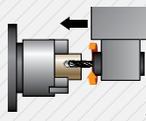
Processing depth	15 mm (0.59")
Drill diameter	Ø12 (Ø0.47")
Cutting speed	162 m/min (6,378 ipm)
Spindle rpm	995 r/min
Forwarding speed	0.4 mm/rev (0.15"/rev)
Chip discharge	180 cc/min



### Tapping

(Material:JIS)-S45C(Carbon steel)

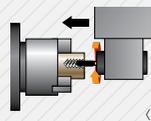
Processing depth	20 mm (0.79")
Tap spec / pitch	M12/1.75
Cutting speed	8 m/min (315 ipm)
Spindle rpm	121 r/min
Forwarding speed	1.75 mm/rev (0.07"/rev)



### Drilling

(Material:JIS)-S45C(Carbon steel)

Processing depth	15 mm (0.59")
Drill diameter	Ø12 (Ø0.47")
Cutting speed	36 m/min (1,417 ipm)
Spindle rpm	960 r/min
Forwarding speed	0.5 mm/rev (0.02"/rev)
Chip discharge	17 cc/min



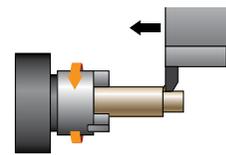
### Tapping

(Material:JIS)-S45C(Carbon steel)

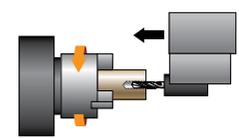
Processing depth	20 mm (0.79")
Tap spec / pitch	M12/1.75
Cutting speed	8 m/min (315 ipm)
Spindle rpm	212 r/min
Forwarding speed	1.75 mm/rev (0.07"/rev)

❖ The above results might be different by types of processing circumstance.

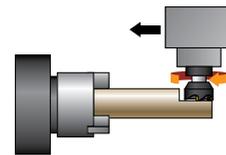
## Machining Variation



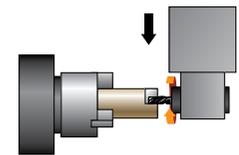
O.D Cutting



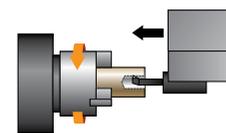
Drilling



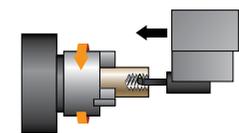
Face Cutting



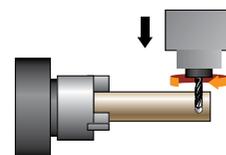
End Milling



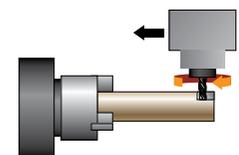
I.D Cutting



I.D Threading



O.D Hole Drilling



Ball-End Milling

## Sample Workpiece



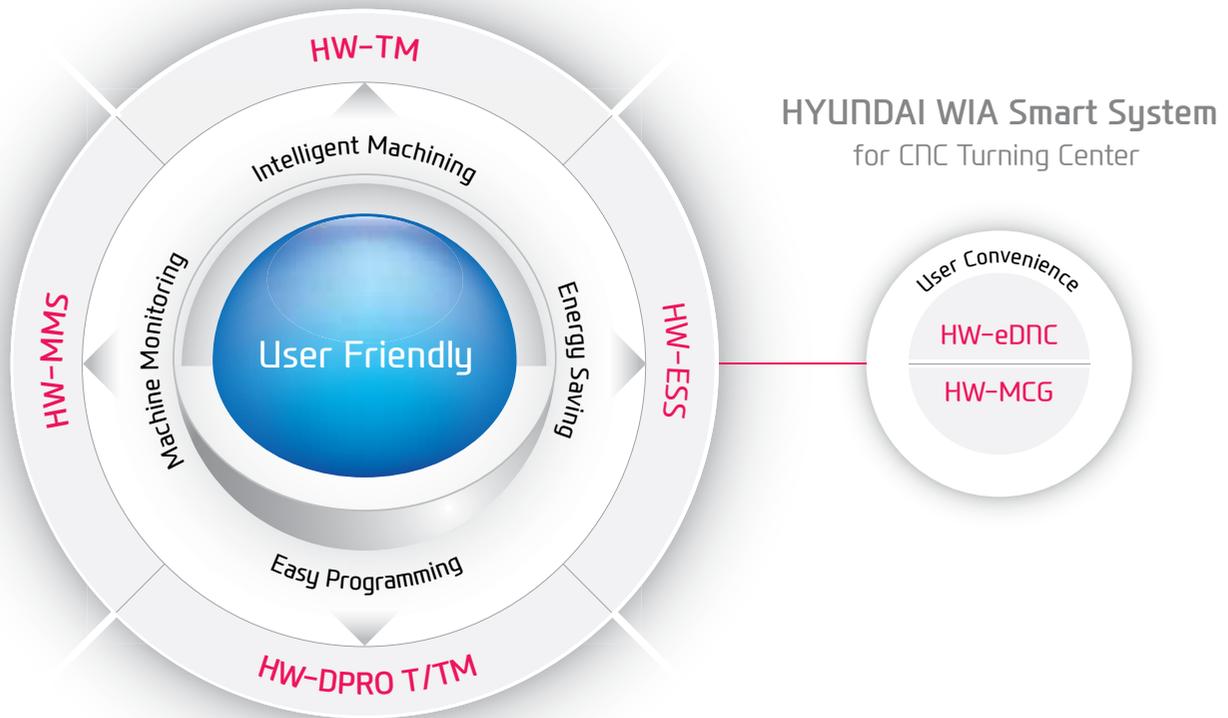
# 05

E200 Series

## Smart System



Software for Smart Operating and Machining



HYUNDAI WIA Smart System  
for CNC Turning Center

### Smart Factory HW-MMS (HYUNDAI WIA-Machine Monitoring System)

A brand new manufacturing machine by HYUNDAI WIA, HW-MMS is a unique software capable of monitoring the operation status of manufacturing machines in factories, a smart solution to improve manufacturing conditions of customers.

01 Real-time monitoring of machine operation status (Cloud)

02 History and statistics of machine operation (Cloud)

03 History and statistics of alarm occurrence (Cloud)

04 History and statistics of work count (Cloud)

05 Remote diagnosis (Remote)

**HW-MMS Remote System**

- 01 Real-time monitoring of machine operation status (Cloud)
- 02 History and statistics of machine operation (Cloud)
- 03 History and statistics of alarm occurrence (Cloud)
- 04 History and statistics of work count (Cloud)
- 05 Remote diagnosis (Remote)

Faster processing and enhanced accuracy in are possible through the **HYUNDAI WIA Smart System**. The user friendly software and equipment monitoring of the Smart System maximizes productivity.



### HW-eDNC

HYUNDAI WIA ethernet  
Direct Numerical Control

This software allows transmission of NC data between PC and a machine's CNC. The processing programs can be managed on the PC through the ethernet or serial communication.



### HW-MCG

HYUNDAI WIA  
Machine Guidance

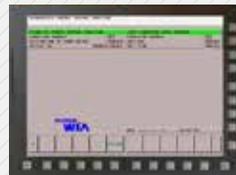
Software that offers operation, maintenance, management monitoring and various user friendly features.



### HW-TM

HYUNDAI WIA  
Tool Monitoring

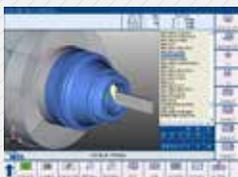
A tool monitoring software which analyzes the load of the spindle motor to determine and monitor possible damage of tools.



### HW-ESS (Standard)

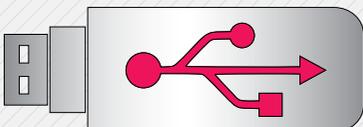
HYUNDAI WIA  
Energy Saving System

An environmental friendly software that reduces the unnecessarily wasted standby power waiting for an operation.



### HW-DPRO T/TM HYUNDAI WIA Dialogue PROgram Turn/TurnMill

Using a dialogue method, this software makes it easy to work out a program for a lathe processing operation with complicated configurations. (Can be installed on a PC.)



### USB Port

Convenience is increased when inputting and outputting program. The USB port is available in addition to the former input output methods such as CF memmort card and LAN.

# SIEMENS

## DIFFERENTIATED CAPABILITIES, INTEGRATED ENGINEERING PERFECTLY INTERLINKED

SIEMENS 828D is a latest model CNC. It is designed for horizontal/vertical all-purpose equipments.

Its 80-bit control reduces processing time and increases productivity. The 828D is easy to maintain and run, with its easy setup functions.



### SIEMENS Technology

#### Shop Turn

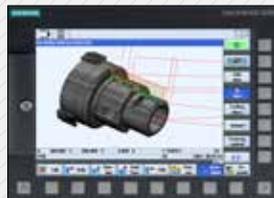
- Dialogue-type programming, simple and convenient
- Effective specifications for small quantity batch production
- Step-by-step operation possible without knowledge of the DIN/ISO code



OPTION

#### 3D Simulation

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



OPTION

#### Easy Extend

- Easy to install/uninstall an option (Ex : barfeeder and chip conveyor, etc.)
- Possible to install in one motion without revision of individual perimeters.
- A spate list is unnecessary as option items are indicated with letters.



### SIEMENS Communication Function

#### Variable Communication Port

RJ 45 Ethernet

USB 2.0

Compact Flash Card



Easy input/output of a program is possible as a USB memory card, a CF memory card and LAN can all be used.

#### ISO Code Programming



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

## SIEMENS Convenience Function

### Easy Tool Measuring

- Easy calculation (automatic and manual) of the offset values of the installed equipment
- Automatic input of the measured offset values of equipment into the equipment list



### Work Offset Measuring

- Supports the function of work offset calculation
- Automatic application of the measured work offset value as the activated work offset



### Real Time PLC Monitoring

- Real time monitoring of PLC programs is possible. Supports the “search” and “cross reference” functions.
- Real time verification of I/O variables and PLC interface
- Input/change of the values of variables



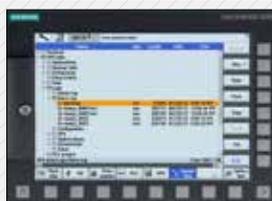
### Block Searching

- Program can be re-started from a particular location without editing the processing program.
- Provides safety to the user.



### Alarm Log

- A maximum of 500 alarms can be stored.
- The entire alarm log can be stored as a data file in the I/O
- The overall alarm history can be checked through the alarm log.



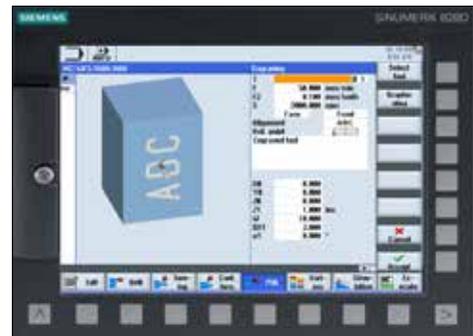
## SIEMENS Easy Programming



### Program Guide

#### Simple Program, High Productivity

- Use of cycle program minimizes program capacity.
- When cycle variables are input, graphic images are provided.
- Tool path and simulation of completed cycle program are available.
- Various configurations can be processed using cycles.



### Engraving Cycle

#### Simple Letter Processing is Possible.

- Letters can be processed on products by establishing a plane and inputting letters.
- Letter size/angle/location/direction can be designated.
- Capital and small letters of English can be processed.

# 07

E200 Series

## User Convenience



Various Devices for User Convenience

### Bar Feeder System

#### Bar Feeder

Bar feeder system enables automation which leads to efficiency improvement.

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



#### Parts Conveyor

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



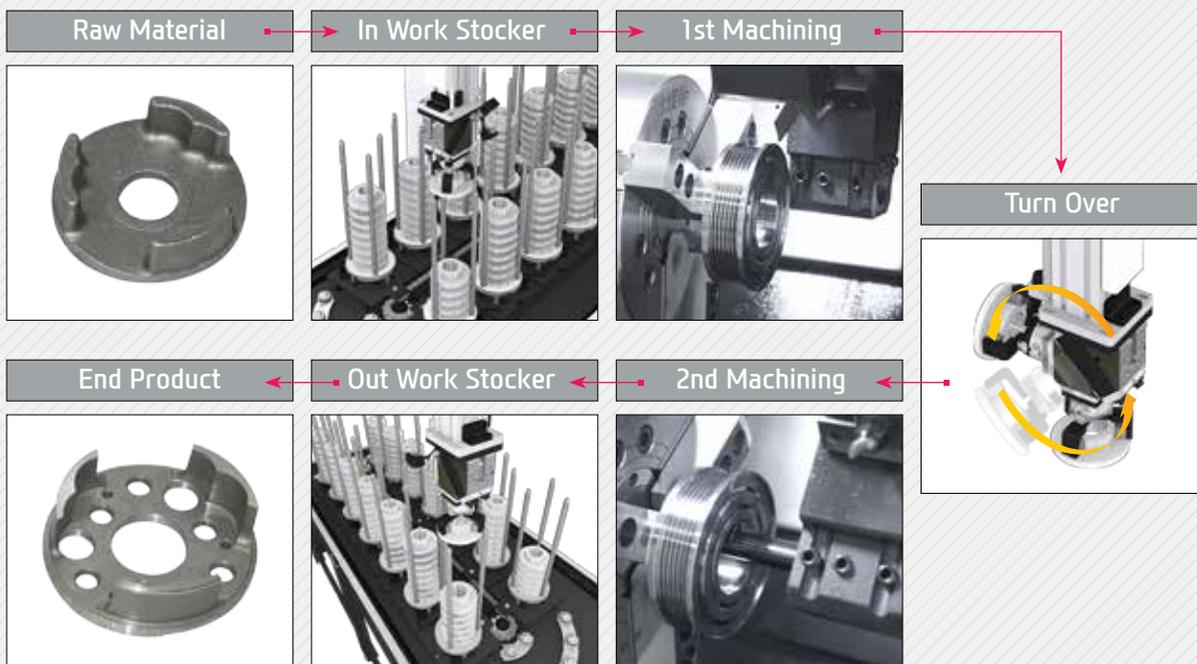
Optional

## Gantry Loader System



### Gantry Loader Machining Process

The high speed gantry loaders and the work stocker allow the implementation of automation cells. This enables machining process flexibility and productivity enhancement.



# SPECIFICATIONS

## Standard & Optional

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

Spindle		E200A/PA	E200MA
Main Spindle	6"	●	●
Hollow Chuck 3 Jaw	8"	○	○
Main Spindle	6"	○	○
Solid Chuck 3 Jaw	8"	☆	☆
Standard Soft Jaw (1set)		●	●
Chuck Clamp Foot Switch		●	●
2 Steps Hyd. Pressure Device		○	○
Spindle Inside Stopper		☆	☆
5° Index		☆	-
C-Axis (0.001")		-	●
Chuck Open/Close Confirmation Device		○ (CE:●)	○ (CE:●)
2 Steps Chuck Foot Switch		○	○
<b>Turret</b>			
Tool Holder		●	●
Mill Turret	VDI	-	●
Straight Milling Head (Axial)	Collet Type,1ea	-	●
Angular Milling Head (Radial)	Collet Type,1ea	-	●
Straight Milling Head (Axial)	Adapter Type	-	-
Angular Milling Head (Radial)	Adapter Type	-	-
Boring Sleeve		●	●
Drill Socket		●	-
U-Drill Holder		○	○
U-Drill Holder Sleeve		○	○
O.D Extension Holder	For Outside Diameter	☆	-
Angle Head		-	○
<b>Tail Stock &amp; Steady Rest</b>			
Quill Type Tail Stock		○	○
Programmable Tail Stock		-	-
Manual Type Hyd. Steady Rest		-	-
Standard Live Center (Tail Stock : Standard)		○	○
High Precision Live Center		○	○
2 Steps Tail Stock Pressure System		☆	☆
Quill Forward/Reverse Confirmation Device		○	○
Tail Stock Foot Switch		☆	☆
<b>Coolant &amp; Air Blow</b>			
Standard Coolant (Nozzle)		●	●
Chuck Coolant (Upper Chuck)		○	○
Gun Coolant		○	○
Through Spindle Coolant (Only for Special Chuck)		☆	☆
Thru Coolant for Live Tool		-	-
Chuck Air Blow (Upper Chuck)		○	○
Tail Stock Air Blow (Upper Tail Stock)		☆	☆
Turret Air Blow		☆	☆
Air Gun		○	○
Through Spindle Air Blow (Only for Special Chuck)		☆	☆
High Pressure Coolant	0.4Bar (5.8 psi)	●	●
	6Bar (87 psi)	○	○
Power Coolant System (For Automation)		☆	☆
Coolant Chiller		☆	☆
<b>Chip Disposal</b>			
Coolant Tank	135 ℓ (35.7 gal)	●	●
Chip Conveyor	Front(Rear)	○	○
(Hinge/Scraper)	Front (Right)	○	○
Special Chip Conveyor (Drum Filter)		☆	☆
Chip Wagon	Standard (180 ℓ [47.5 gal])	○	○
	Swing (200 ℓ [52.8 gal])	○	○
	Large Swing (290 ℓ [76.6 gal])	○	○
	Large Size (330 ℓ [87.2 gal])	○	○
	Customized	☆	☆

Safety Device		E200A/PA	E200MA
Total Splash Guard		●	●
Chuck hydraulic pressure maintenance interlock		○ (CE:●)	○ (CE:●)
<b>Electric Device</b>			
Call Light	1 Color : ■	●	●
Call Light	2 Color : ■ ■	○	○
Call Light	3 Color : ■ ■ ■	○	○
Call Light & Buzzer	3 Color : ■ ■ ■ B	○	○
Electric Cabinet Light		○	○
Remote MPG		-	-
Work Counter	Digital	○	○
Total Counter	Digital	○	○
Tool Counter	Digital	○	○
Multi Tool Counter	Digital	○	○
Electric Circuit Breaker		○	○
AVR (Auto Voltage Regulator)		☆	☆
Transformer	20kVA	○	○
Auto Power Off		○	○
<b>Measurement</b>			
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)		☆	☆
<b>Environment</b>			
Air Conditioner		○	○
Oil Mist Collector		☆	☆
Oil Skimmer (Only for Chip Conveyor)		○	○
MLQ (Minimal Quantity Lubrication)		☆	☆
<b>Fixture &amp; Automation</b>			
Auto Door		○	○
Auto Shutter (Only for Automatic System)		☆	☆
Sub Operation Pannel		☆	☆
Bar Feeder Interface		○	○
Bar Feeder (FEDEK)		☆	☆
Work Pusher (Spring Type)		○	○
Extra M-Code 4ea		○	○
Automation Interface		☆	☆
I/O Extension (IN & OUT)	16 Contact	○	○
	32 Contact	○	○
Parts Catcher	Main SP.	○	○
Turret Work Pusher (For Automation)		☆	☆
Parts Conveyor		☆	☆
Semi Automation System		☆	☆
<b>Hyd. Device</b>			
Standard Hyd. Cylinder	Hollow	●	●
Standard Hyd. Unit	35bar (507.6 psi)/ 15 ℓ (4 gal)	●	●
<b>S/W</b>			
Machine Guidance (HW-MCG)		☆	☆
Energy Saving System (HW-ESS)		●	●
Tool Monitoring (HW-TM)		○	○
DNC software (HW-eDNC)		○	○
Machine Monitoring System (HW-MMS)		☆	☆
Conversational Program (HW-DPRO)		○	○
<b>ETC</b>			
Tool Box		●	●
Customized Color	Need Munsel No.	☆	☆
CAD & CAM		☆	☆

# SPECIFICATIONS

## Standard & Optional

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

Spindle		E200C/PC	E200MC
Main Spindle	8"	●	●
Hollow Chuck 3 Jaw	10"	○	○
Main Spindle	8"	○	○
Solid Chuck 3 Jaw	10"	○	○
Standard Soft Jaw (1set)		●	●
Chuck Clamp Foot Switch		●	●
2 Steps Hyd. Pressure Device		○	○
Spindle Inside Stopper		☆	☆
5° Index		☆	-
C-Axis (0.001")		-	●
Chuck Open/Close Confirmation Device		○(CE:●)	○(CE:●)
2 Steps Chuck Foot Switch		○	○
<b>Turret</b>			
Tool Holder		●	●
Mill Turret	VDI	-	●
Straight Milling Head (Axial)	Collet Type, 1ea	-	●
Angular Milling Head (Radial)	Collet Type, 1ea	-	●
Straight Milling Head (Axial)	Adapter Type	-	-
Angular Milling Head (Radial)	Adapter Type	-	-
Boring Sleeve		●	●
Drill Socket		●	-
U-Drill Holder		○	○
U-Drill Holder Sleeve		○	○
O.D Extension Holder	For Outside Diameter	☆	-
Angle Head		-	○
<b>Tail Stock &amp; Steady Rest</b>			
Quill Type Tail Stock		○	○
Extension of Tail Stock Quill Stroke	100mm (3.9")	○/-	-
Programmable Tail Stock		-	-
Manual Type Hyd. Steady Rest		-	-
Standard Live Center (Tail Stock : Standard)		○	○
High Precision Live Center		○	○
2 Steps Tail Stock Pressure System		☆	☆
Quill Forward/Reverse Confirmation Device		○	○
Tail Stock Foot Switch		☆	☆
<b>Coolant &amp; Air Blow</b>			
Standard Coolant (Nozzle)		●	●
Chuck Coolant (Upper Chuck)		○	○
Gun Coolant		○	○
Through Spindle Coolant (Only for Special Chuck)		☆	☆
Thru Coolant for Live Tool		-	-
Chuck Air Blow (Upper Chuck)		○	○
Tail Stock Air Blow (Upper Tail Stock)		☆	☆
Turret Air Blow		☆	☆
Air Gun		○	○
Through Spindle Air Blow (Only for Special Chuck)		☆	☆
High Pressure Coolant	0.4Bar (5.8 psi) 6Bar (87 psi)	● ○	● ○
Power Coolant System (For Automation)		☆	☆
Coolant Chiller		☆	☆
<b>Chip Disposal</b>			
Coolant Tank	135 ℓ (35.7 gal)	●	●
Chip Conveyor	Front(Rear)	○	○
(Hinge/Scraper)	Front (Right)	○	○
Special Chip Conveyor (Drum Filter)		☆	☆
Chip Wagon	Standard (180 ℓ [47.5 gal])	○	○
	Swing (200 ℓ [52.8 gal])	○	○
	Large Swing (290 ℓ [76.6 gal])	○	○
	Large Size (330 ℓ [87.2 gal])	○	○
	Customized	☆	☆

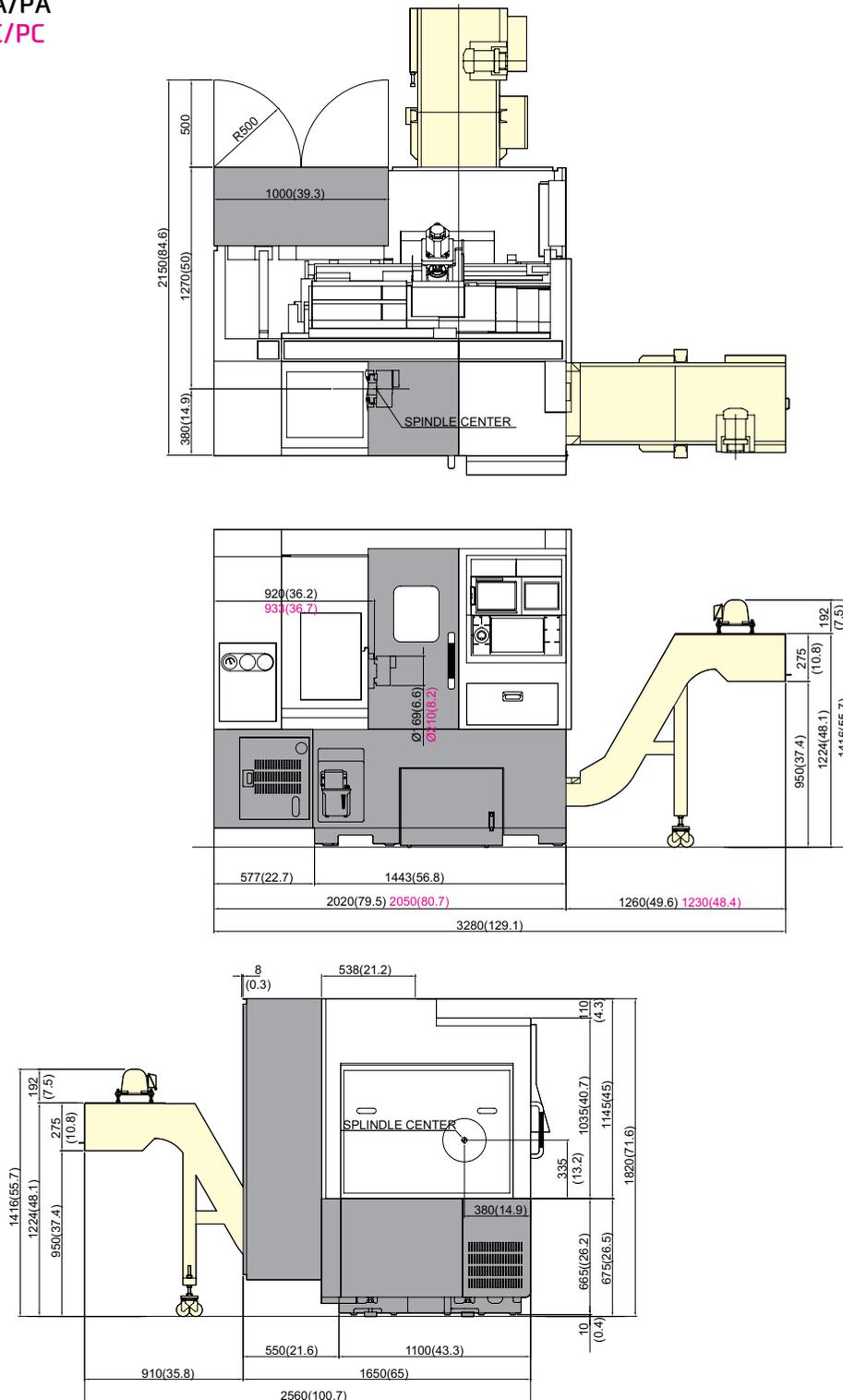
Safety Device		E200C/PC	E200MC
Total Splash Guard		●	●
Chuck hydraulic pressure maintenance interlock		○(CE:●)	○(CE:●)
<b>Electric Device</b>			
Call Light	1 Color : ■	●	●
Call Light	2 Color : ■ ■	○	○
Call Light	3 Color : ■ ■ ■	○	○
Call Light & Buzzer	3 Color : ■ ■ ■ B	○	○
Electric Cabinet Light		○	○
Remote MPG		-	-
Work Counter	Digital	○	○
Total Counter	Digital	○	○
Tool Counter	Digital	○	○
Multi Tool Counter	Digital	○	○
Electric Circuit Breaker		○	○
AVR (Auto Voltage Regulator)		☆	☆
Transformer	20KVA	○	○
Auto Power Off		○	○
<b>Measurement</b>			
Q-Setter		○	○
Automatic Q-Setter		○	○
Work Close Confirmation Device	TACO	○	○
(Only for Special Chuck)	SMC	○	○
Work Setter		☆	☆
Linear Scale	X axis Z axis	- -	- -
Coolant Level Sensor (Only for Chip Conveyor)		☆	☆
<b>Environment</b>			
Air Conditioner		○	○
Oil Mist Collector		☆	☆
Oil Skimmer (Only for Chip Conveyor)		○	○
MQL (Minimal Quantity Lubrication)		☆	☆
<b>Fixture &amp; Automation</b>			
Auto Door		○	○
Auto Shutter (Only for Automatic System)		☆	☆
Sub Operation Panel		☆	☆
Bar Feeder Interface		○	○
Bar Feeder (FEDEK)		☆	☆
Work Pusher (Spring Type)		○	○
Extra M-Code 4ea		○	○
Automation Interface		☆	☆
I/O Extension (IN & OUT)	16 Contact 32 Contact	○ ○	○ ○
Parts Catcher	Main SP.	○	○
Turret Work Pusher (For Automation)		☆	☆
Parts Conveyor		☆	☆
Semi Automation System		☆	☆
<b>Hyd. Device</b>			
Standard Hyd. Cylinder	Hollow	●	●
Standard Hyd. Unit	35bar (507.6 psi)/ 15 ℓ (4 gal)	●	●
<b>S/W</b>			
Machine Guidance (HW-MCG)		☆	☆
Energy Saving System (HW-ESS)		●	●
Tool Monitoring (HW-TM)		○	○
DNC software (HW-eDNC)		○	○
Machine Monitoring System (HW-MMS)		☆	☆
Conversational Program (HW-DPRO)		○	○
<b>ETC</b>			
Tool Box		●	●
Customized Color	Need Munsel No.	☆	☆
CAD & CAM		☆	☆

# SPECIFICATIONS

## External Dimensions

unit : mm(in)

E200A/MA/PA  
E200C/MC/PC

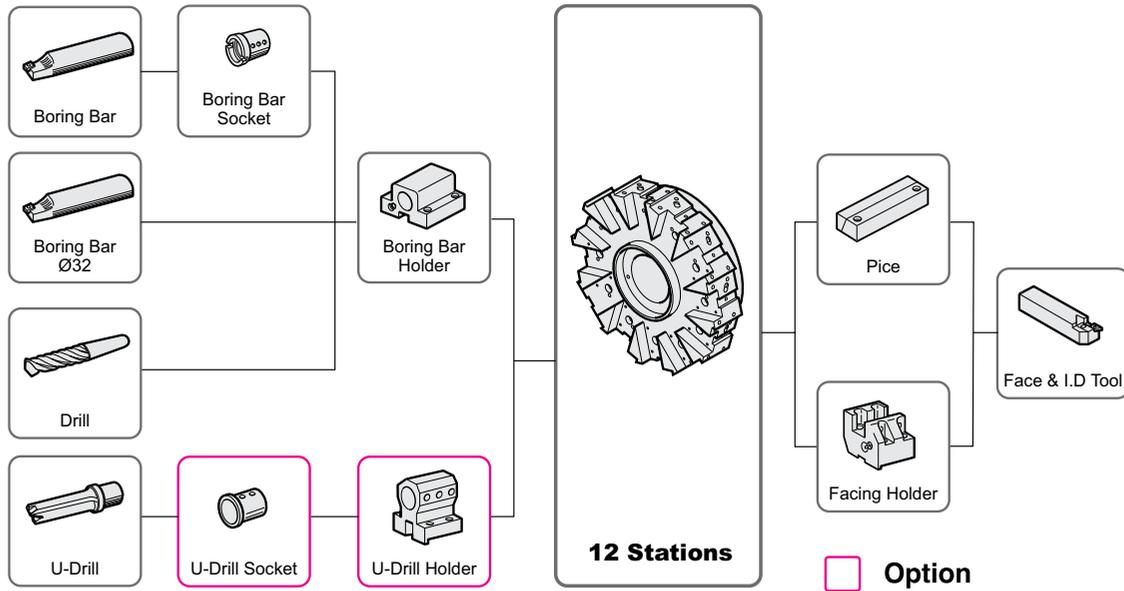


# SPECIFICATIONS

## Tooling System

unit : mm(in)

E200A/PA  
E200C/PC



## Tooling Parts Detail

ITEM			E200A/PA		E200C/PC	
			mm unit	inch unit	mm unit	inch unit
Turning Holder	O.D Holder	Right/Left	-	-	-	-
	Facing Holder		1	1	1	1
Boring Holder	I.D Holder	Single	5	5	5	5
	U-Drill Holder	Ø32 (1 1/4")	Opt	-	Opt	-
		Ø40 (1 1/2")	-	Opt	-	Opt
Driven Holder	Straight Mill Holder	Standard	-	-	-	-
	Angular Mill Holder	Standard	-	-	-	-
Socket	Boring	Ø10 (Ø3/8")	1	1	1	-
		Ø12 (Ø1/2")	1	1	1	1
		Ø16 (Ø5/8")	1	-	1	-
		Ø20 (Ø3/4")	1	1	1	1
		Ø25 (Ø1")	-	1	1	1
		Ø32 (Ø1 1/4")	-	-	1	1
	Drill	MT 1 × MT 2	1	1	1	1
		MT 2	1	1	1	1
	ER Collet		-	-	-	-

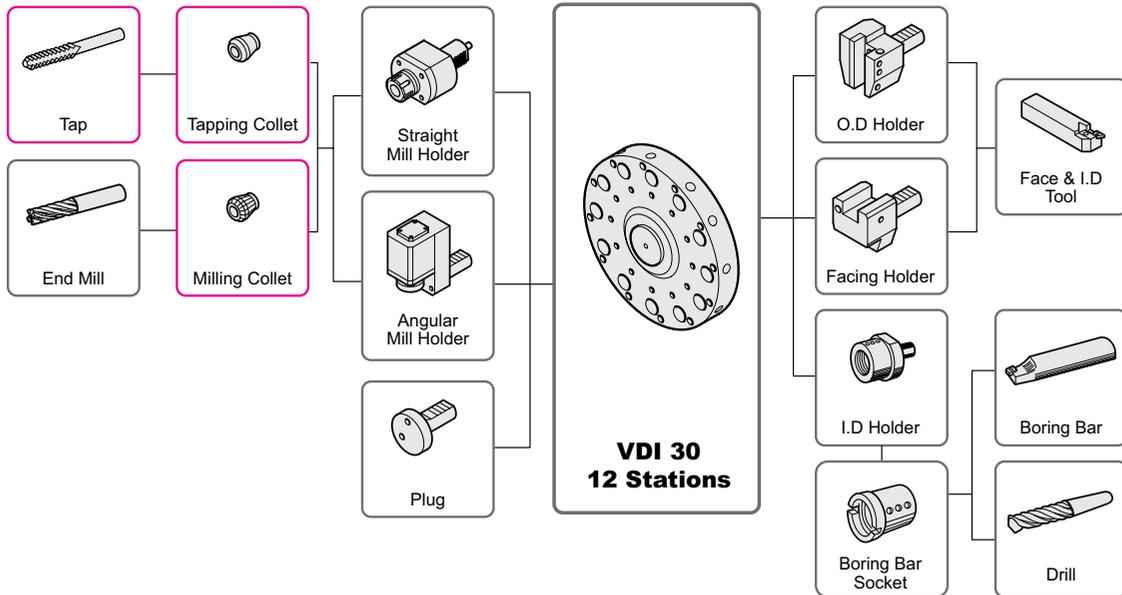
Specifications are subject to change without notice for improvement.

# SPECIFICATIONS

## Tooling System

unit : mm(in)

E200MA  
E200MC



Option

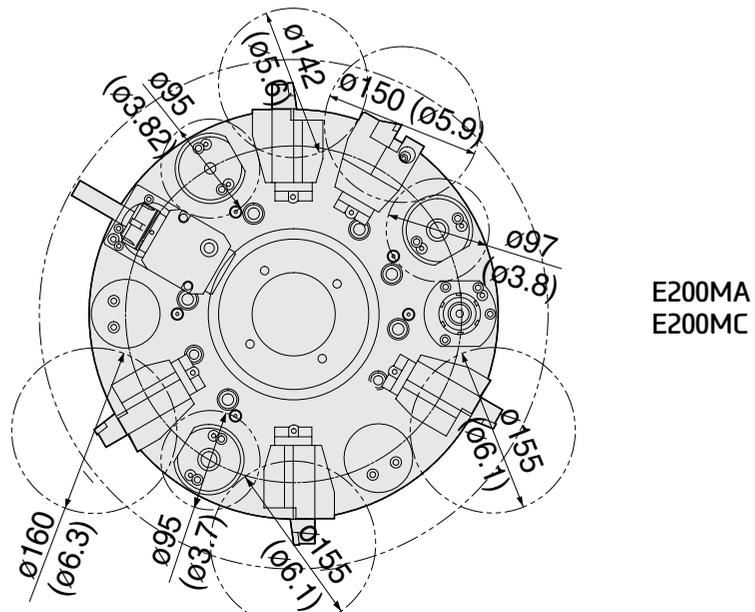
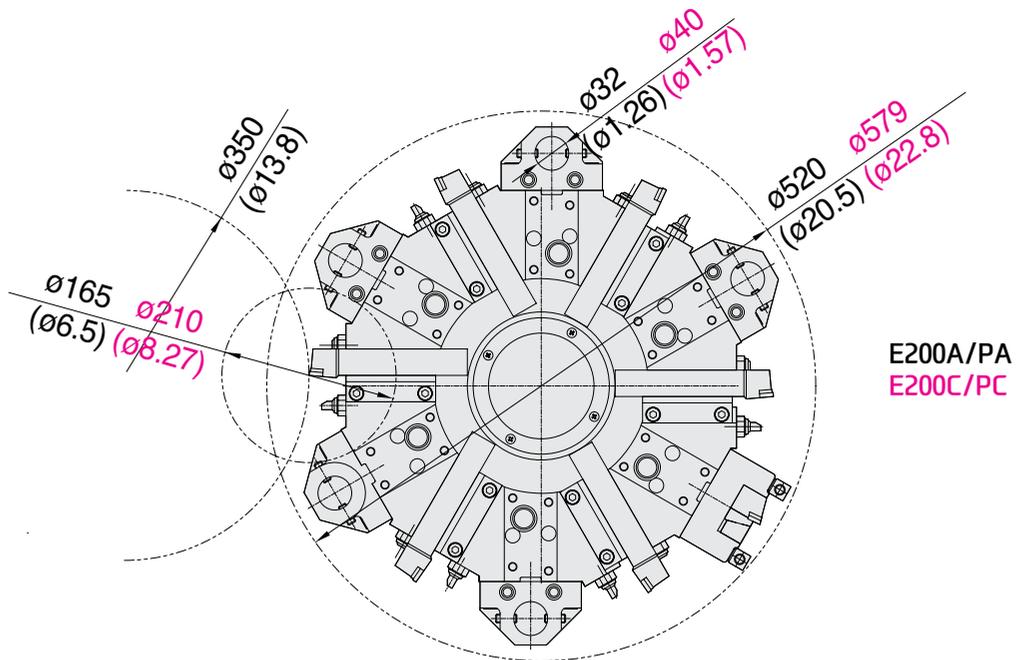
## Tooling Parts Detail

ITEM			E200MA		E200MC	
			mm unit	inch unit	mm unit	inch unit
Turning Holder	O.D Holder	Right/Left	4	4	4	4
	Facing Holder		1	1	1	1
Boring Holder	I.D Holder	Single	3	3	3	3
	U-Drill Holder	Ø32 (Ø1 1/4")	-	-	-	-
		Ø40 (Ø1 1/2")	-	-	-	-
Driven Holder	Straight Mill Holder	Standard	1	1	1	1
	Angular Mill Holder	Standard	1	1	1	1
Socket	Boring	Ø8 (Ø5/16")	1	1	1	1
		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
	Drill	MT 1 × MT 2	-	-	-	-
		MT 2	-	-	-	-
	ER Collet		Opt	Opt	Opt	Opt

# SPECIFICATIONS

Interference

unit : mm(in)



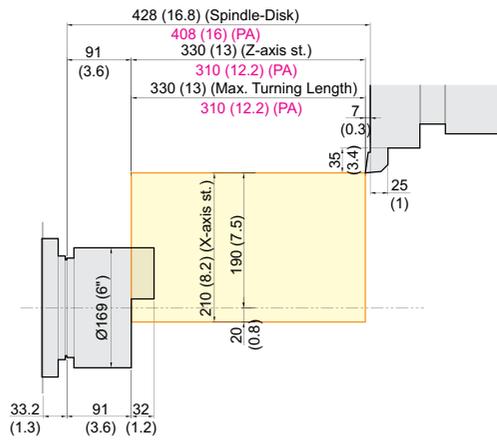
# SPECIFICATIONS

## Tooling Travel Range

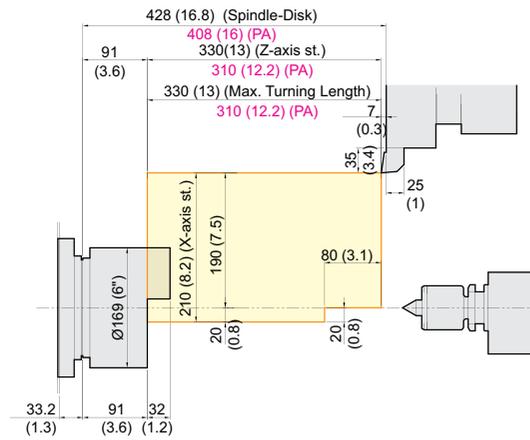
unit : mm(in)

### E200A/PA

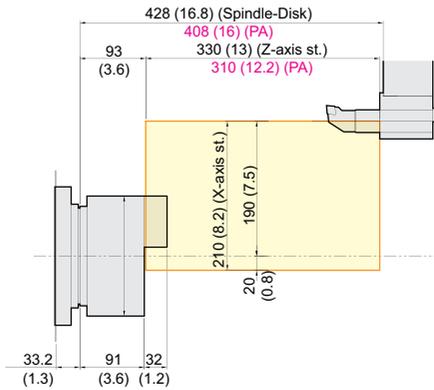
#### O.D. Tool holder



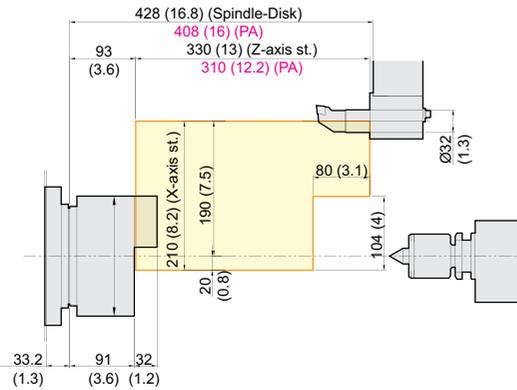
#### O.D. Tool holder (with Tail Stock)



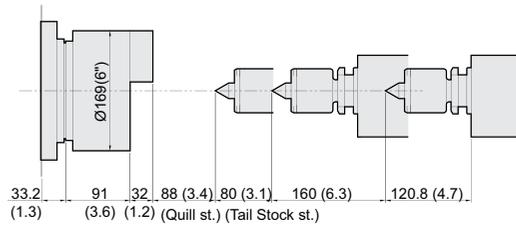
#### I.D. Tool holder



#### I.D. Tool holder (with Tail Stock)



#### Tail Stock



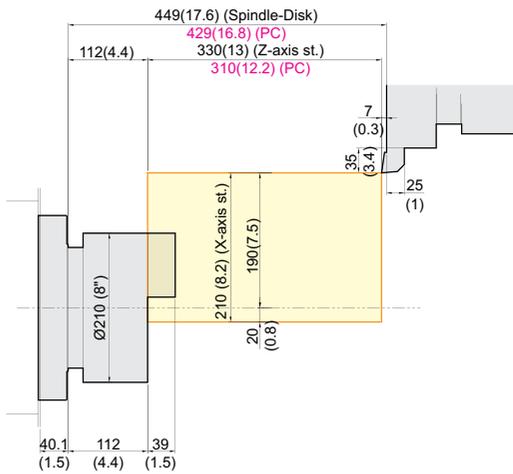
# SPECIFICATIONS

## Tooling Travel Range

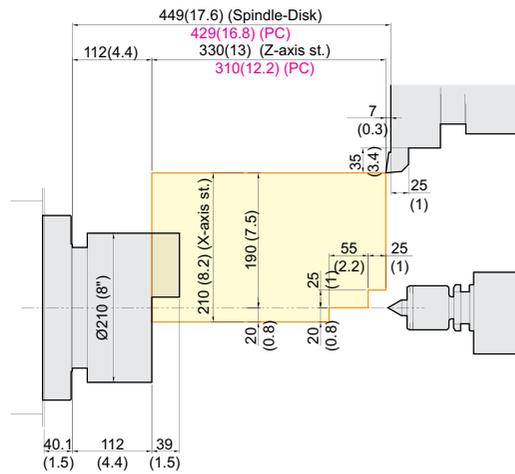
unit : mm(in)

### E200C/PC

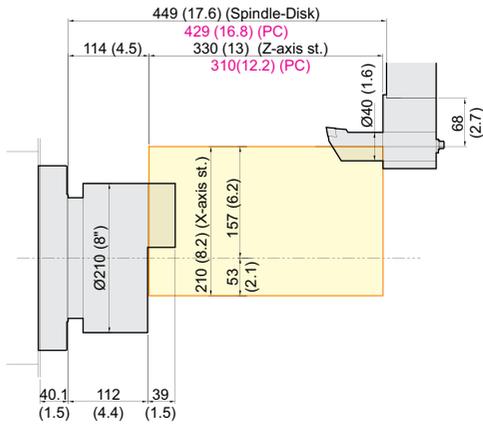
#### O.D. Tool holder



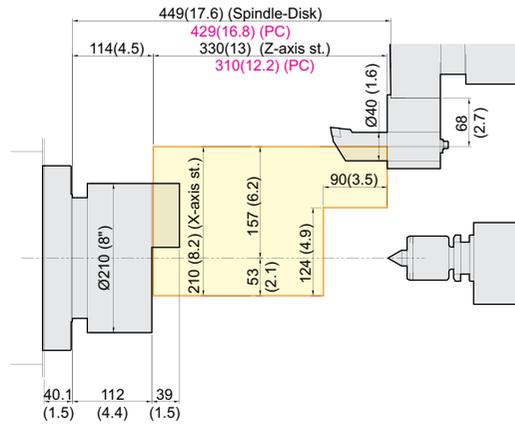
#### O.D. Tool holder (with Tail Stock)



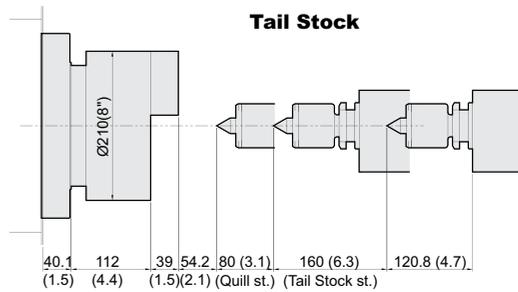
#### I.D. Tool holder



#### I.D. Tool holder (with Tail Stock)



#### Tail Stock



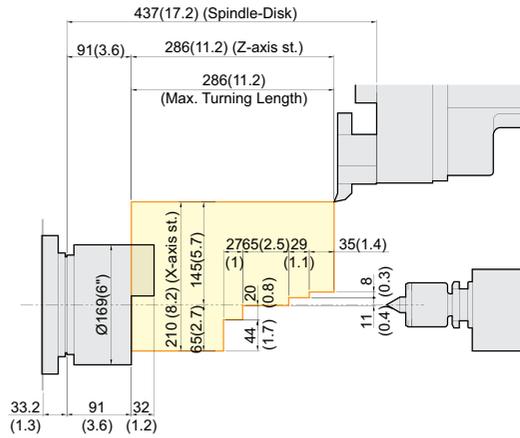
# SPECIFICATIONS

## Tooling Travel Range

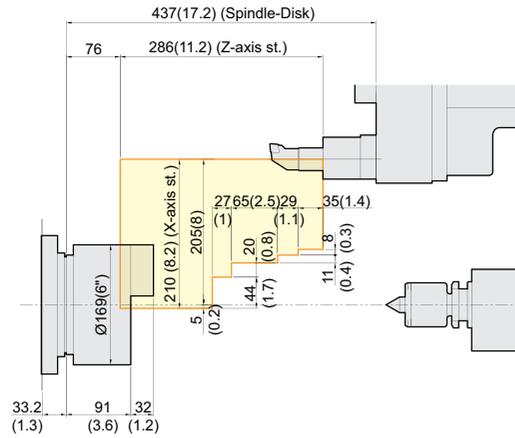
unit : mm(in)

### E200MA

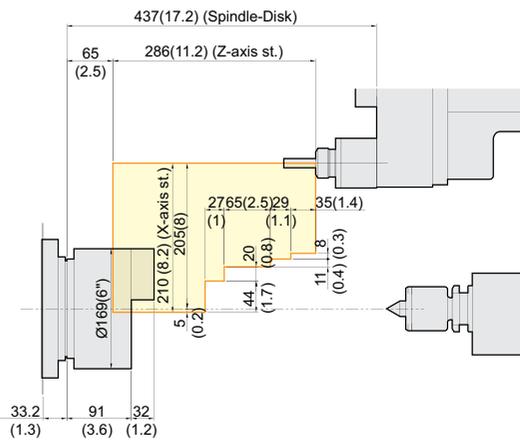
#### O.D. Tool holder (with Tail Stock)



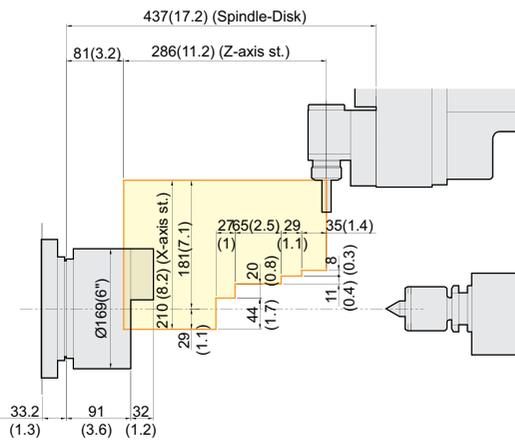
#### I.D. Tool holder (with Tail Stock)



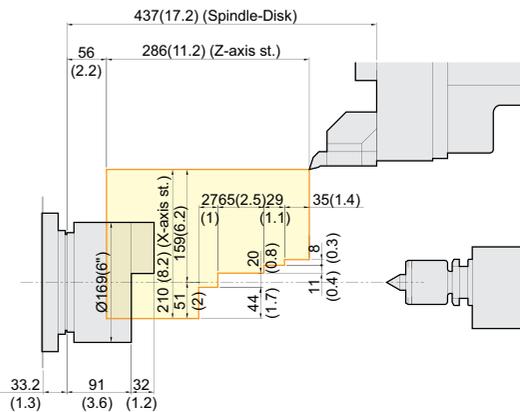
#### Angular Milling Head (with Tail Stock)



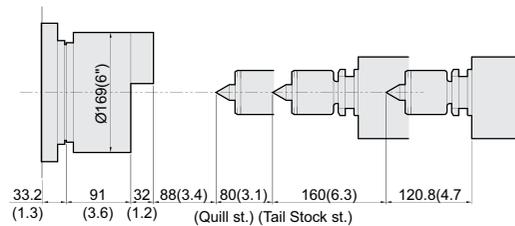
#### Straight Milling Head (with Tail Stock)



#### Face Tool holder



#### Tail Stock





# SPECIFICATIONS

## Specifications

[ ] : Option

ITEM			E200A	E200MA	E200PA	
CAPACITY	Swing Over the Bed	mm(in)	Ø550 (21.7")			
	Swing Over the Carriage	mm(in)	Ø350 (13.8")			
	Max. Turning Dia.	mm(in)	Ø350 (13.8")	Ø290 (11.4")	Ø350 (13.8")	
	Max. Turning Length	mm(in)	300 (11.8")	255 (10")	280 (11")	
	Bar Capacity	mm(in)	Ø45 (1.8")			
SPINDLE	Chuck Size	inch	6"			
	Spindle Bore	mm(in)	Ø53 (2.1")			
	Spindle Speed (rpm)	r/min	6,000 [6,000]	6,000	6,000 [6,000]	
	Motor (Max/Cont.)	kW(HP)	15/11(20.1/14.8) [10.8/9 (14.5/12)]	15/11 (20.1/14.8)	15/11(20.1/14.8) [10.8/9 (14.5/12)]	
	Torque (Max/Cont.)	N·m(lbf·ft)	95.5/52.5 (70.4/38.7) [75.6/68.7 (55.8/50.7)]	95.5/52.5 (70.4/38.7)	95.5/52.5 (70.4/38.7) [75.6/68.7 (55.8/50.7)]	
	Spindle Type	-	BELT			
	Spindle Nose	-	A2-5			
	C-axis Indexing	deg	-	0.001°	-	
FEED	Travel (X/Z/B)	mm(in)	210/330 (8.3"/13")	210/286 (8.3"/11.3")	210/310 (8.3"/12.2")	
	Rapid Traverse Rate (X/Z)	m/min(ipm)	36/36 (1,417/1,417)		24/24 (945/945)	
	Slide Type	-	LM GUIDE		BOX GUIDE	
TURRET	No. of Tools	EA	12			
	Tool Size	OD	mm(in)	□ 25 (1")	□ 20 (0.8")	□ 25 (1")
		ID	mm(in)	Ø32 (1.3")		
	Indexing Time	sec/step	0.12	0.23	0.12	
LIVE TOOL	Motor (Max/Cont.)	kW(HP)	-	8.8/3 (11.8/4)	-	
	Milling Tool Speed (rpm)	r/min	-	4,500	-	
	Torque (Max/Cont.)	N·m(lbf·ft)	-	45/20 (33.2/14.7)	-	
	Collet Size	mm(in)	-	Ø16 (0.6") ER25	-	
	Type	-	-	VDI30	-	
TAIL STOCK	Taper	-	MT4			
	Quill Dia.	mm(in)	Ø65 (2.6")			
	Quill Travel	mm(in)	80 (3.1")			
	Travel	mm(in)	160 (6.3")			
TANK CAPACITY	Coolant Tank	ℓ (gal)	135 (35.7)			
	Lubricating Tank	ℓ (gal)	1.8 (0.5)			
POWER SUPPLY	Electric Power Supply	kVA	17			
	Thickness of Power Cable	Sq	OVER 16			
	Voltage	V/Hz	220/60 (200/50*)			
MACHINE	Floor Space (L×W)	mm(in)	2,020×1,763 (79.5"×69.4")			
	Height	mm(in)	1,820 (71.7")			
	Weight	kg(lb)	3,800 (8,378)			
PC	Controller	-	HYUNDAI WIA FANUC i Series [E200A/PA : SIEMENS 828D]			

\*) Using 50Hz voltage instead of 60Hz may lower the output of motors. (excluding servo motors and inverter motors)  
Specifications are subject to change without notice for improvement.

# SPECIFICATIONS

## Specifications

[ ] : Option

ITEM			E200C	E200MC	E200PC
CAPACITY	Swing Over the Bed	mm(in)	Ø550 (21.7")		
	Swing Over the Carriage	mm(in)	Ø350 (13.8")		
	Max. Turning Dia.	mm(in)	Ø350 (13.8")	Ø290 (11.4")	Ø350 (13.8")
	Max. Turning Length	mm(in)	270 (10.6")	255 (10")	270 (10.6")
	Bar Capacity	mm(in)	Ø65 (2.6")		
SPINDLE	Chuck Size	inch	8"		
	Spindle Bore	mm(in)	Ø78 (3.1")		
	Spindle Speed (rpm)	r/min	4,000 [4,000]	4,000	4,000 [4,000]
	Motor (Max/Cont.)	kW(HP)	15/11(20.1/14.8) [10.8/9 (14.5/12)]	15/11 (20.1/14.8)	15/11 (20.1/14.8) [10.8/9 (14.5/12)]
	Torque (Max/Cont.)	N·m(lbf·ft)	167/92 (123.2/67.9) [132.3/110.3 (97.6/81.4)]	167/92 (123.2/67.9)	167/92 (123.2/67.9) [132.3/110.3 (97.6/81.4)]
	Spindle Type	-	BELT		
	Spindle Nose	-	A2-6		
	C-axis Indexing	deg	-	0.001°	-
FEED	Travel (X/Z/B)	mm(in)	210/330 (8.3"/13")	210/286 (8.3"/11.3")	210/310 (8.3"/12.2")
	Rapid Traverse Rate (X/Z)	m/min(ipm)	36/36 (1,417/1,417)		24/24 (945/945)
	Slide Type	-	LM GUIDE		BOX GUIDE
TURRET	No. of Tools	EA	12		
	Tool Size	OD	□ 25 (1")	□ 20 (0.8")	□ 25 (1")
		ID	Ø40 (1.6")	Ø32 (1.3")	Ø40 (1.6")
	Indexing Time	sec/step	0.12	0.23	0.12
LIVE TOOL	Motor (Max/Cont.)	kW(HP)	-	8.8/3 (11.8/4)	-
	Milling Tool Speed (rpm)	r/min	-	4,500	-
	Torque (Max/Cont.)	N·m(lbf·ft)	-	45/20 (33.2/14.7)	-
	Collet Size	mm(in)	-	Ø16 (0.6") ER25	-
	Type	-	-	VDI30	-
TAIL STOCK	Taper	-	MT4		
	Quill Dia.	mm(in)	Ø65 (2.5")		
	Quill Travel	mm(in)	80 (3.1")		
	Travel	mm(in)	160 (6.3")		
TANK CAPACITY	Coolant Tank	ℓ (gal)	135 (35.7)		
	Lubricating Tank	ℓ (gal)	1.8 (0.5)		
POWER SUPPLY	Electric Power Supply	kVA	17		
	Thickness of Power Cable	Sq	OVER 16		
	Voltage	V/Hz	220/60 (200/50*)		
MACHINE	Floor Space (L×W)	mm(in)	2,050×1,763 (80.7"×69.4")		
	Height	mm(in)	1,820 (71.7")		
	Weight	kg(lb)	3,800 (8,378)		
PC	Controller	-	HYUNDAI WIA FANUC i Series [E200C/PC : SIEMENS 828D]		

\*) Using 50Hz voltage instead of 60Hz may lower the output of motors. (excluding servo motors and inverter motors)  
Specifications are subject to change without notice for improvement.

# CONTROLLER

## HYUNDAI WIA FANUC i Series

[ ] : Option

Controlled axis / Display / Accuracy Compensation	
Control axes	2 axes (X, Z) / 3 axes (X, Z, C / X, Z, B) / 4 axes (X, Z, Y, C) 5 axes (X, Z, B, C, A) / 6 axes (X, Z, Y, B, C, A)
Simultaneously controlled axes	2 axes [Max. 4 axes]
Designation of spindle axes	3 axes (1 path)
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 (Rapid traverse / Cutting feed)
Position switch	
LCD / MDI	8.4 inch / 10.4 inch color LCD
Feedback	Absolute motor feedback
Stored stroke check 1	Over travel
Stored stroke check 2, 3	
PMC axis control	
<b>Operation</b>	
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
<b>Interpolation functions</b>	
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	
Thread cutting retract	
Variable lead thread cutting	
Multi / Continuous threading	
<b>Feed function / Acc. &amp; Dec. control</b>	
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	F1%, F5%, F25% / 50%, F100%
Override cancel	
Feed per minute	G98
Feed per revolution	G99
Look-ahead block	1 block
<b>Program input</b>	
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 ~ #149, #500 ~ #549
G code system	A
Programmable mirror image	G51.1, G50.1
G code preventing buffering	G4.1
Direct drawing dimension program	Including Chamfering / Corner R

<b>Program input</b>	
Multiple repetitive cycles	I, II
Canned cycle for turning	
<b>Auxiliary function / Spindle speed function</b>	
Auxiliary function	M & 4 digit
Level-up M Code	High speed / Multi / Bypass M code
Spindle speed function	S & 4 digit, Binary output
Spindle override	0% ~ 150% (10% Unit)
Multi position spindle orientation	M19
Rigid tapping	
Constant surface speed control	G96, G97
<b>Tool function / Tool compensation</b>	
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	
<b>Editing function</b>	
Part program storage size	1280m (512KB)
No. of registerable programs	1000 ea
Program protect	
Background editing	
Extended part program editing	Copy, move and change of NC program
Memory card program edit	
<b>Data input / output &amp; Interface</b>	
I/O interface	RS 232C serial port, CF card, USB memory Embedded Ethernet interface
Screen hard copy	
External message	
External key input	
External workpiece number search	
Automatic data backup	
<b>Setting, display and diagnosis</b>	
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 20 languages
Display language switching	Selection of 5 optional Languages
LCD Screen Saver	Screen saver
Unexpected disturbance torque	BST (Back spin torque limit)
<b>Function for machine type</b>	
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
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	MS, SY TTS, TTMS, TTSY
<b>Option</b>	
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
Part program storage size	5120m (2MB)
Polygon turning (2 Spindles)	Mill, MS, Y, SY, LF-Mill, TTMS, TTSY
Helical interpolation	
Manual Guide i	Conversational auto program
Dynamic graphic display	

Figures in inch are converted from metric values.

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

# CONTROLLER

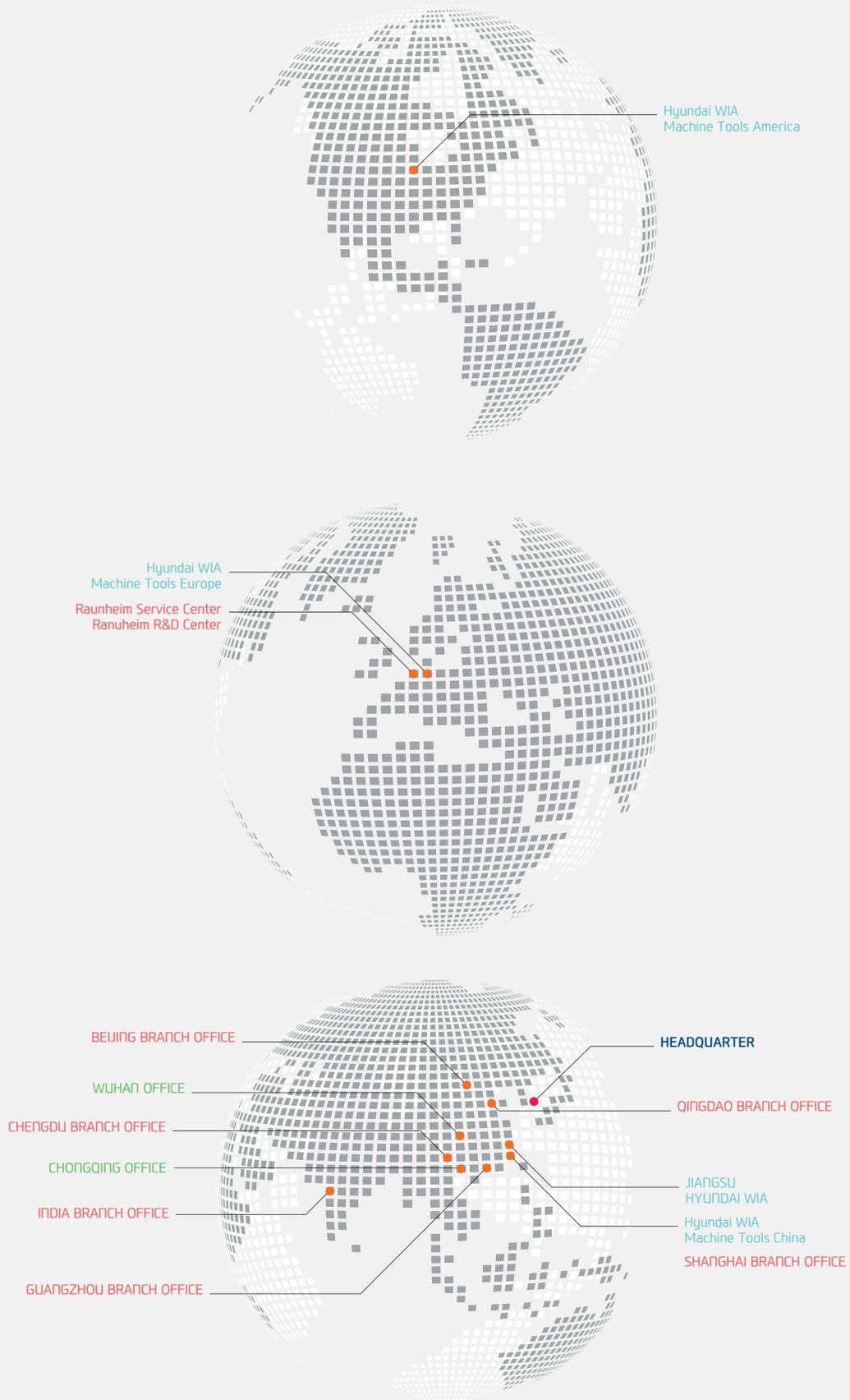
## SIEMENS 828D (E200A/PA | E200C/PC)

Control function		Program function	
Max. configuration of axis	3 axis(MS / SY exception) 4 axis(MS / SY machine only)	Part Program Storage Length	3MB (MS / SY exception) PPU26x.x 5MB (MS / SY machine only) PPU28x.x
Max. configuration of axis and sp.	6 axis(MS / SY exception) 8 axis(MS / SY machine only)	Program Name	23 digit
Least Command/input	0.0001mm / 0.00001inch	Subroutine Call	(7 level)
<b>Feed function</b>		Absolute/incremental Command	G90 – G91
Feedrate Override	0 – 120%	Scaling, ROT	
Rapid Traverse Override	F1, 5, 25/50, 100%	Inch / Metric Conversion	
Acceleration with jerk limitation		Conversational Cycle Program	(22 Machine)
Programmable acceleration		Block Search	
Follow-up mode		Variable Program (Macro)	
Measuring system 1 and 2, selectable		Read / Write System Variable	
Separate path feed for corners and chamfers		BackGround Editing	
Travel to fixed stop		Miscellaneous Functions	M – Code
<b>Spindle function</b>		Label Skip	
Spindle Override	50% – 120%	Program Stop/End	M00, M01, M02, M30
Spindle Orientation		Lookahead , Jerk LimitationFeed & forward control	
Spindle Speed Limitation		ISO Dialect Interpreter(G291) (Fanuc Program exe)	
Rigid Tapping		Maximum number of tools/cuttings	128/256 (MS / SY exception) PPU26x.x 256/512 (MS / SY machine only) PPU28x.x
<b>Interpolation function</b>		Number of levels for skip blocks 1	
Linear interpolation axis	Max. 4 axis	<b>Protection Function</b>	
Circle via center point and end point		Emergency Stop	
Circle via interpolation point		Over Travel	Soft Limit & Hard O.T
Helical interpolation		Contour Monitoring	
Universal interpolator NURBS (non-uniform rational B splines)		Program Protection	
Continuous-path mode with programmable rounding clearance		<b>Automation Support Fun.</b>	
<b>Tool function</b>		Actual Speed Display(Monitor)	
Tool Radius Comp.		Tool Life Management	(Time, Parts)
Zero Offset (G54, G55, G56, G57, G58, G59)	100 EA	Work Count Function	(Internal)
Programmable Zero Offset		<b>Language Function</b>	
Tool management			(6EA)
<b>Display</b>		Two Language Switchable	Chinese Traditional, Czech, Danish, Dutch, Finnish, Hungarian, Japanese, Korean, Polish, Russian, Swedish, Portuguese, Turkish
CRT / MDI	10.4" Color LCD	<b>Data Transfer</b>	
SCREEN SAVER		RS 232C I/F / Ethernet	
<b>Manual Operation</b>		USB Memory Stick & CF Card	
Manual Handle/Jog Feed		<b>Option</b>	
Reposition		Shop Turn	
Reference Approach	Ref 1, 2 Approach	3D Simulation	
Spindle Control	Start, Stop, Rev, Jog, Ort.	DRF offset	
<b>Auto Operation</b>		Teach -in	
Single Block		Number of levels for skip blocks 8	
Feed Hold		TRACYL (Cylinder interpolation)	
Optional Block Skip		TRANSMIT (Pole coordinate command)	
Machine Lock		Sister Tool	
Dry Run		A,B,C SPLINE INTERPOLATION	
Simulation	(2 dimensional)	RCS HOST (Remote Control)	
<b>Diagnosis function</b>		Simultaneous Recording (Real time monitoring)	
Alarm Display		Analysis of Internal Drive Values	
Spindle Load Meter/RPM Meter (monitor)		Network Drive Management	
PLC status/LAD display			

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# GLOBAL NETWORK



# GLOBAL NETWORK



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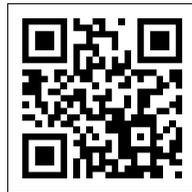
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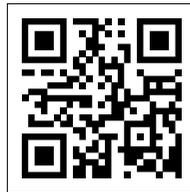
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E200A Movie



E200C Movie



<http://machine.hyundai-wia.com>

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