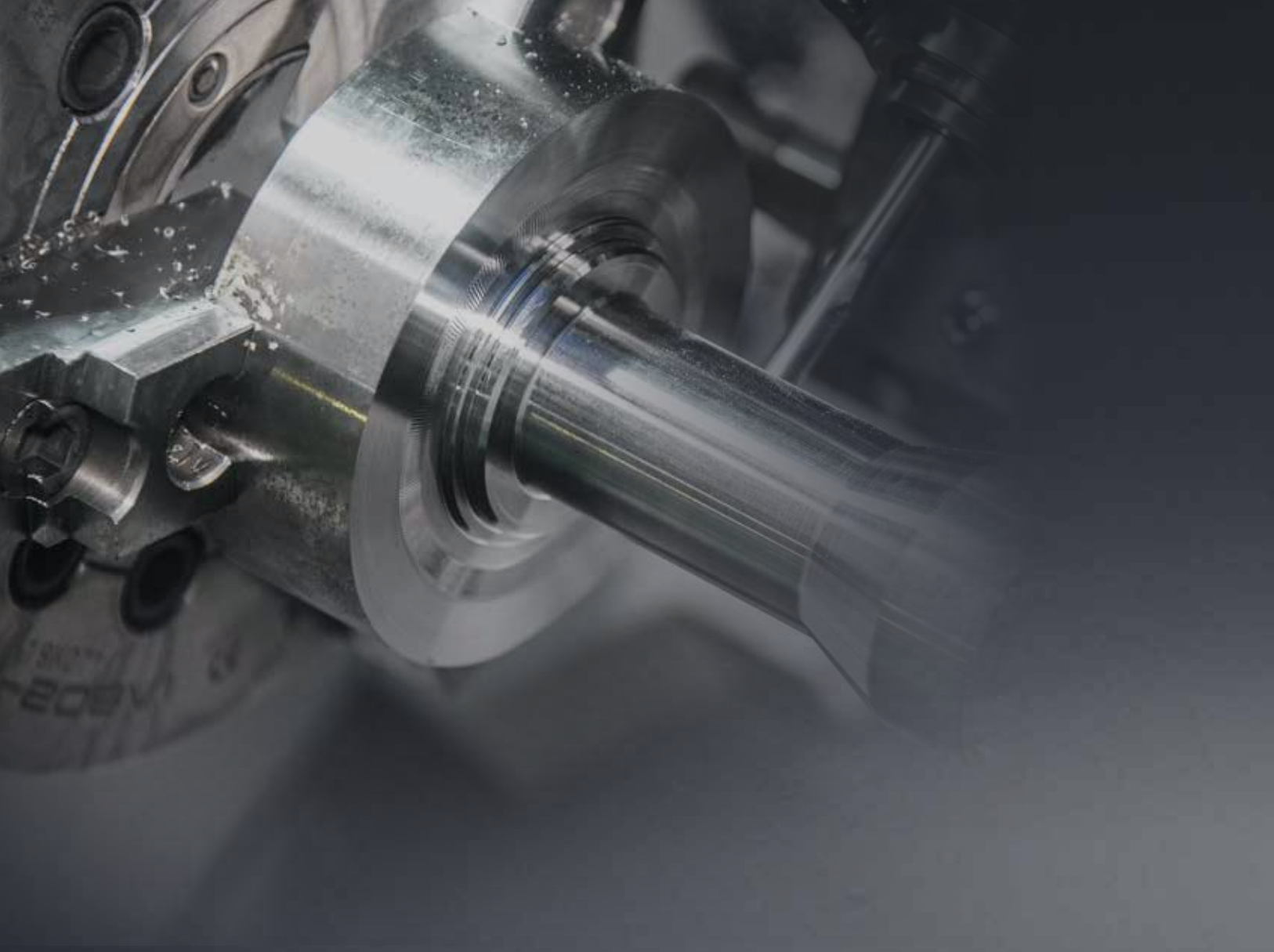
SE 2600 Series

CNC Turning Center for Productivity

WIA Machine Tools CNC Turning Center

WIA MACHINE TOOLS



Technical Leader

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

ITEM	Main Spindle	Sub Spindle	Bed Type		Turret		Y-Axis
	10″	6″	Std. Bed	Long Bed	Standard	Mill turret	
SE2600	●		●		●		
SE2600L	●			●	●		
SE2600M	●		●			●	
SE2600LM	●			●		●	
SE2600Y	●		●			●	●
SE2600LY	●			●		●	●
SE2600SY	●	●	●			●	●
SE2600LSY	●	●		●		●	●

SE 2600 Series

High-speed Type CNC Turning Center for Productivity

- 30° slanted one-piece bed structure with high rigidity
- Applying high-rigidity roller type LM guideway on all axis
- Hydraulic NC tailstock with position control (SE2600/M/Y)
- Multi-tasking operation with wedge type Y-axis structure (SE2600Y/SY/LY/LSY)
- Improved user convenience by applying the latest controller of FANUC




HYUNDAI
WIA
SE 2600SY

APPLICATIONS & PARTS

Reduced machining time by multi-tasking operation

SE2600Y 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



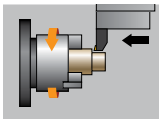
DRIVE GEAR



WORM SHAFT

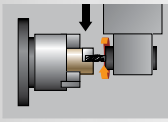
MACHINING CAPABILITY

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



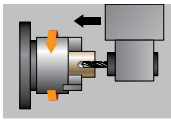
O.D Turning (Material : SM45C)

Machining Dia.	**Ø92** mm (Ø3.5″)
Machining depth	**4** mm (0.16″)
Spindle rpm	**727** r/min
Cutting speed	**210** m/min
Forwarding speed	**0.55** mm/rev
Chip discharging amount	**462** cc/min



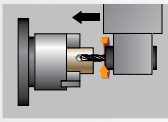
End Mill (Material : SM45C)

Tool Dia.	**Ø16** mm (Ø0.6″)
Spindle rpm	**995** r/min
Forwarding speed	**150** mm/min
Cutting speed	**50** m/min
Machining depth	**16** mm (0.6″)



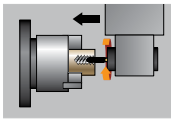
U-Drill (Material : SM45C)

Tool Dia.	**Ø60** mm (Ø2.4″)
Spindle rpm	**551** r/min
Forwarding speed	**0.33** mm/rew
Cutting speed	**104** m/min
Chip discharging amount	**512** cc/min



Drill (Material : SM45C)

Tool Dia.	**Ø14** mm (Ø0.6″)
Spindle rpm	**1,820** r/min
Forwarding speed	**300** mm/min
Cutting speed	**80** m/min



Tap (Material : SM45C)

Tap spec.×Pitch	**M14×P2.0**
Spindle rpm	**133** r/min
Forwarding speed	**2** mm/min
Cutting speed	**5** m/min

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

01 SE2600/M/L/LM

The Best Productivity 10″ CNC Turning Center

Turret

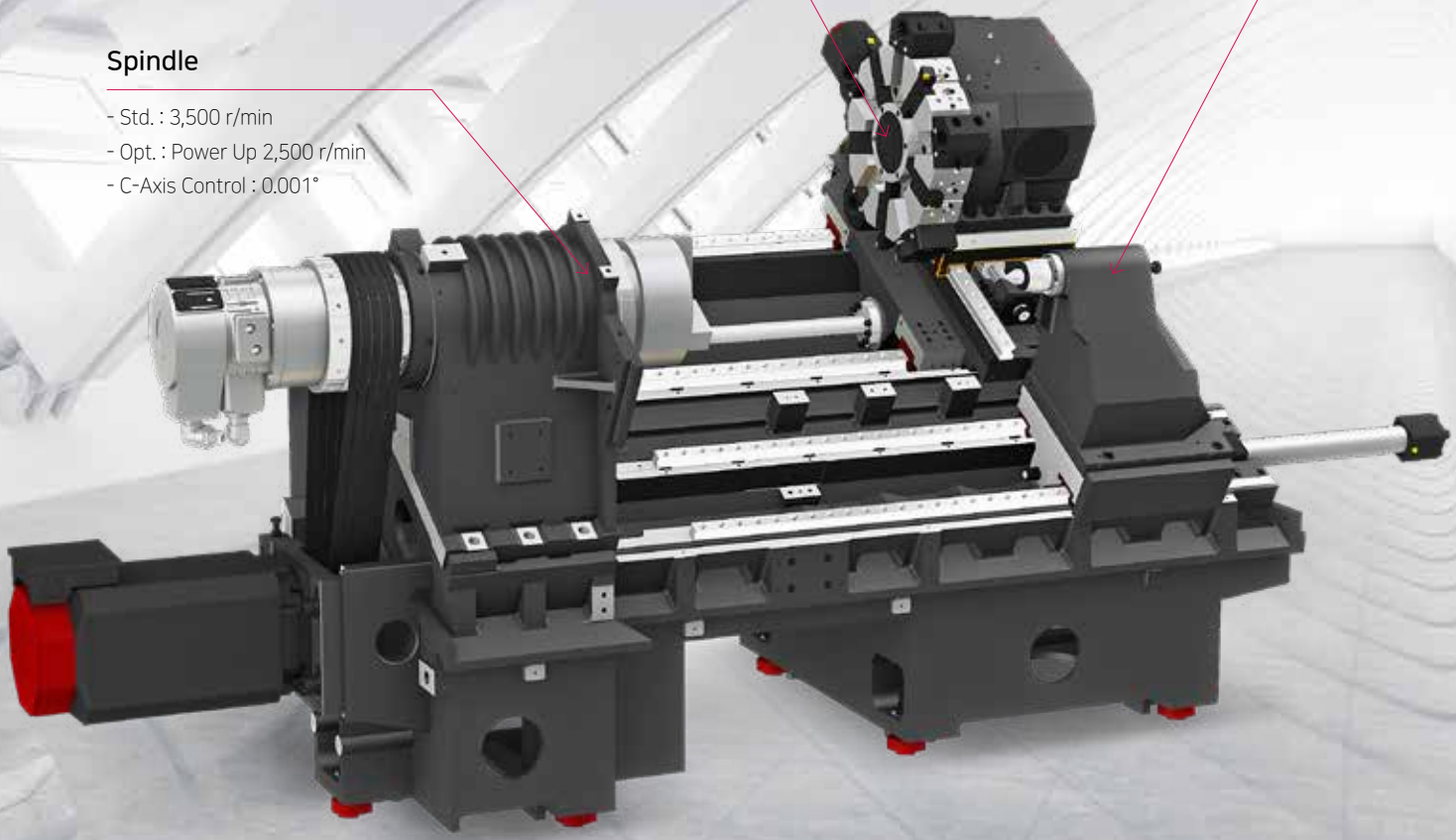
- Std. Turret : 10 EA [Opt. 12 EA]
- Mill Turret : BMT55 12 EA
  [Opt. 24 EA]

Tail Stock

- MT#4
- SE2600M : Hydraulic NC Tailstock
- SE2600L/LM : Quill Type Tailstock

Spindle

- Std. : 3,500 r/min
- Opt. : Power Up 2,500 r/min
- C-Axis Control : 0.001°

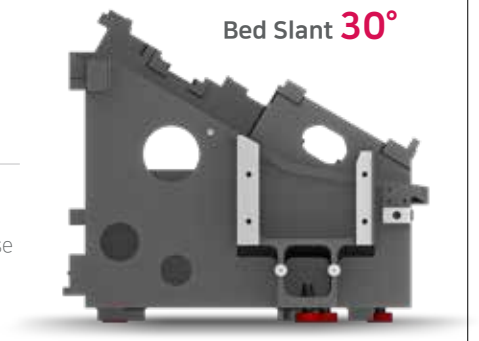




Automatic Grease Supply Unit

Automatic grease lubrication system, which does not require frequent refill, is applied as standard to improve user convenience and cost efficiency. (SE2600L/LM/LY : Oil lubrication)

REDUCTION OF NON-CUTTING TIME BY FAST RAPID SPEED



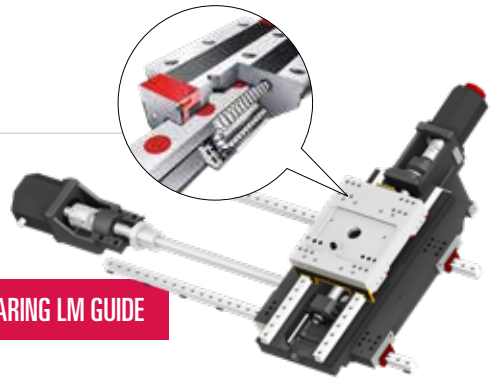
30° SLANTED ONE-PIECE BED

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.

ENHANCED VIBRATION ABSORPTION THANKS TO INCREASED GROUND AREA

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	SE2600M
265/680 mm (10.4"/26.8")	255/680 mm (10"/26.8")
SE2600L	**SE2600LM**
265/1,100 mm (10.4"/43.3")	255/1,100 mm (10"/43.3")

02 SE2600Y/SY/LY/LSY

Y-axis Structure Design for Machining High Value-added Complex Workpiece

BMT55 Mill Turret

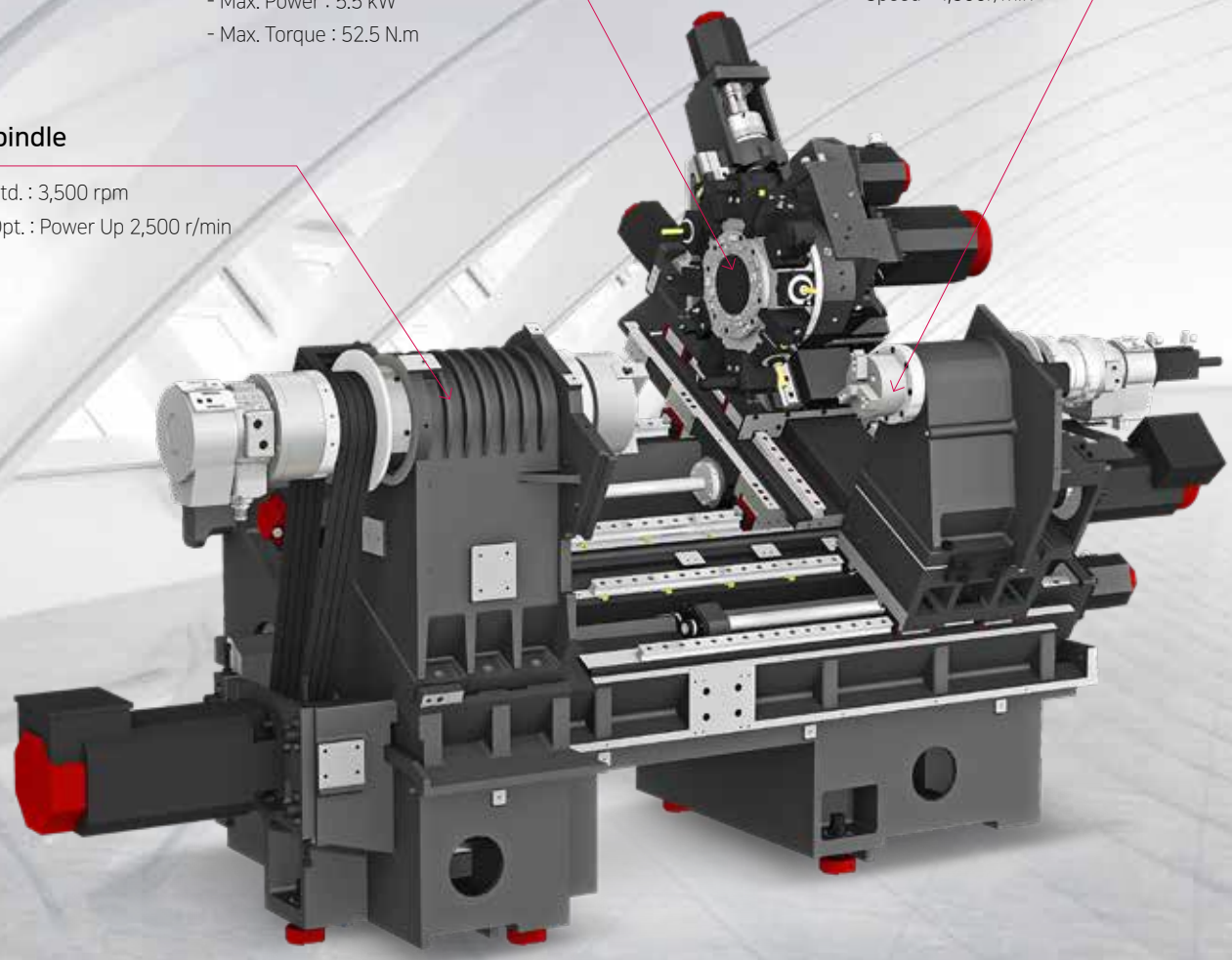
- Speed : 6,000 r/min
- Max. Power : 5.5 kW
- Max. Torque : 52.5 N.m

Sub Spindle (SE2600SY)

- Chuck Size : 6"
- Speed : 4,500r/min

Spindle

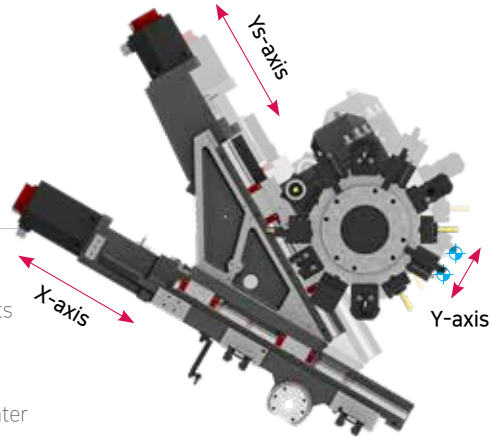
- Std. : 3,500 rpm
- Opt. : Power Up 2,500 r/min



Travel (X/Y/Z/ZB)

SE2600Y/SY	SE2600LY/LSY
255/110/680/660 mm	255/110/1,100/1,080 mm
(10″/4.3″/26.8″/26″)	(10″/4.3″/43.3″/42.5″)

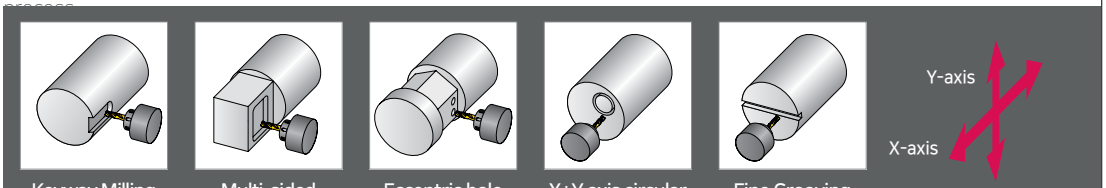
REALIZATION OF COMPLEX MACHINING THROUGH Y-AXIS & SUB-SPINDLE



COMPLEX MACHINING

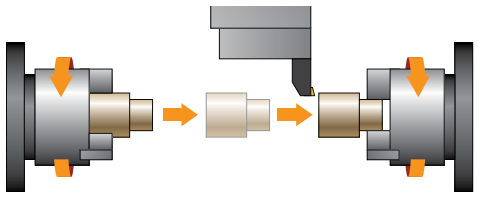
Y-Axis Structure

SE2600Y/LY/SY/LSY with Y-axis added can even machine products thatcannot be machined on the 2-axis turning centers.
Contributes to productivity improvement with machining being performed on a single machine without a separate machining center process.



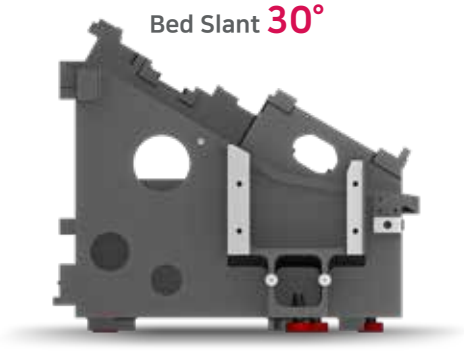
Sub Spindle (SE2600SY/LSY)

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.

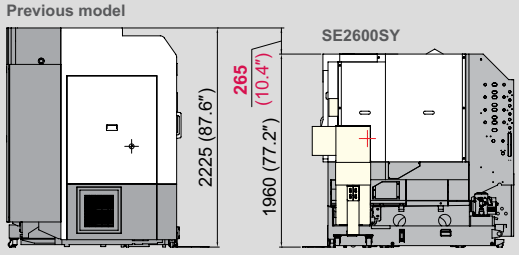


30° SLANTED ONE-PIECE BED

By designing the machine bed at 30°, stability has been improved by reducing the height of the machine which previously used a 45° inclined Y-axis CNC turning center.

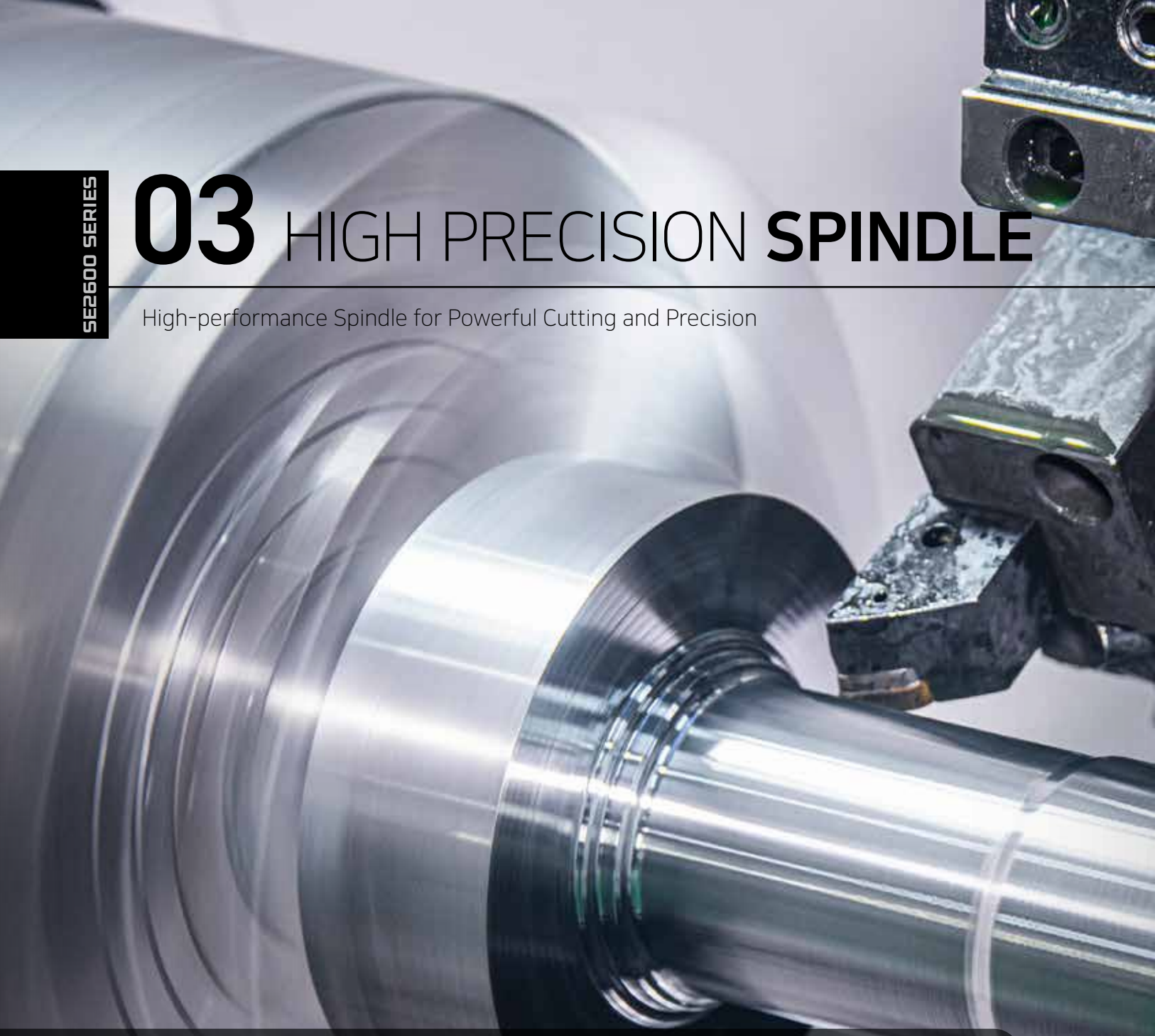


- Height of the machine with the previous 45° inclined Y-axis turning center : 2,225 mm (87.6″)
- SE2600SY machine height : **1,960** mm (77.2″) - 12% height reduction



03 HIGH PRECISION **SPINDLE**

High-performance Spindle for Powerful Cutting and Precision



Spindle Specifications

[ ] : Option ● : SIEMENS

Model	Spindle Speed	Motor (Max./Cont.)	Torque (Max./Cont.)
SE2600/M/L/LM SE2600Y/LY	**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)]
	[**3,500** rpm]	[**23.8/17** kW (31.9/22.8 HP)]	[**455/325** N·m (335.9/239.7 lbf·ft)]
SE2600SY/LSY	**Main : 3,500** rpm	**18.5/15** kW (25/20 HP)	**470.9/286.4** N·m (347.3/211.2 lbf·ft)
	Main : [**2,500** rpm]	[**26/18.5** kW (35/25 HP)]	[**734/522** N·m (541.4/385 lbf·ft)]
	Sub : 4,500 rpm	**7.5/5.5** kW (10/7.5 HP)	**85/47** N·m (62.7/34.7 lbf·ft)
	Sub : [**4,500** rpm]	[**7.4/4.9** kW (9.9/6.6 HP)]	[**63/42** N·m (46.5/31 lbf·ft)]



HEAVY DUTY CUTTING & HIGH ACCURACY

MAIN SPINDLE

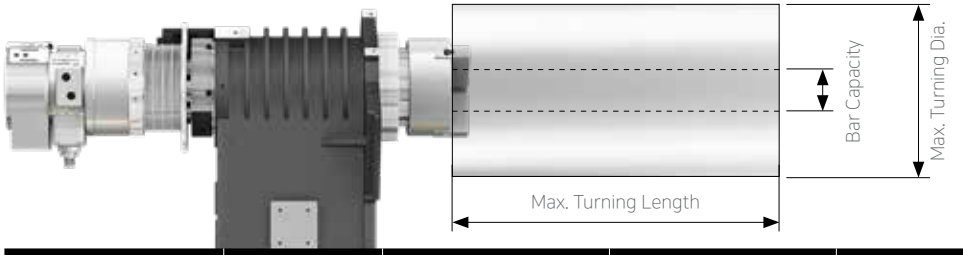
Spindle for Heavy Duty Cutting

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.

C-axis Control for All Models

The SE2600 Series 'M/Y' Type (featuring a mill turret) can control the C-axis by 0.001˚, and the SE2600 (featuring a turning turret) can control the C-axis by 0.03˚.



Model	Chuck Size	Max. Turning Length	Max. Turning Dia.	Bar Capacity
SE2600	10 inch	671 mm (26.4″)	Ø460 mm (18.1″)	Ø81 mm (3.1″)
SE2600M		630 mm (24.8″)	Ø380 mm (15″)	
SE2600Y/SY		653 mm (25.7″)		
SE2600L		1,091 mm (43″)	Ø460 mm (18.1″)	
SE2600LM		1,050 mm (41.3″)	Ø380 mm (15″)	
SE2600LY/LSY		1,073 mm (42.2″)		

6 INCH SUB SPINDLE (SE2600SY/LSY)

By applying a high-performance sub-spindles with the maximum output of 7.5kW (10HP) and the maximum torque of 85N.m, powerful cutting performance can be demonstrated even in the secondary process using the sub-spindles.



04 SERVO TURRET

Excellent Splitting Accuracy, Strong Tool Clamping



Standard Turret (SE2600/L)

[ ] : Option

No. of Tools	Tool Size (O.D/I.D)	Indexing Time
10 [12] EA	□25/Ø50 mm (□1″/Ø2″)	0.15 sec

Mill Turret (SE2600M/LM/Y/LY/SY/LSY)

[ ] : Option ● : SIEMENS

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)
SIEMENS	[6,000 rpm]	[4.2/2.8 kW (5.6/3.8 HP)]	[40.1/26.8 N·m (29.6/19.8 lbf·ft)]	

Standard : 12-angle 12P (30˚ rotation) → Optional : 12-angle 24P (15˚ rotation)

Expanded machining area by increasing the number of tools attached (up to 24 tools)



VARIOUS DRIVEN PRECISION BMT TOOL HOLDERS

SERVO TURRET

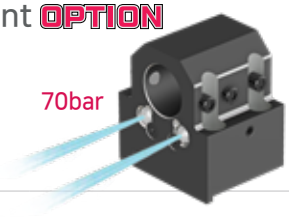


Standard Turret (SE2600/L)

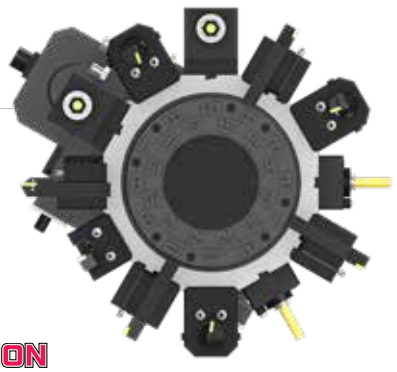
The standard turret is applied with high performance AC servo motor, improving machining reliability. 3-piece coupling shows excellent performance in indexing. Powerful hydraulic tool clamping minimizes tool tip deviation caused by load.

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/LM/Y/LY/SY/LSY)

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.

Triple I.D Holder



Double O.D Holder



OPTION

12 Station 24 Position Turret

Efficient tooling is possible by adjusting the partition angle of the turret, which allows a maximum of two external tools per side and three internal tools per side.

ITEM		STd. 12 Station 12 Position	Opt. 12 Station 24 Position
Turret Angle of Rotation		30˚	15˚
I.D Holder	Single	Ø40 (Ø1 1/2″)	Ø40 (Ø1 1/2″)
	Double	Ø20 (Ø3/4″)	-
	Triple	-	Ø20 (Ø3/4″)
O.D Holder	Single	□25 (□1″)	□20 (□3/4″)
	Double	-	□20 (□3/4″)

※ 24P applicable exclusive to the mill turret

05 USER CONVENIENCE

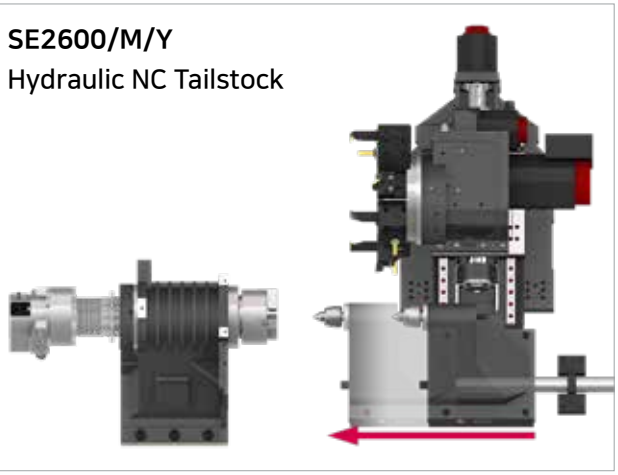
Various Devices for User Friendly

HYDRAULIC NC TAILSTOCK

Optimal tail stock line-up for each machine's characteristic

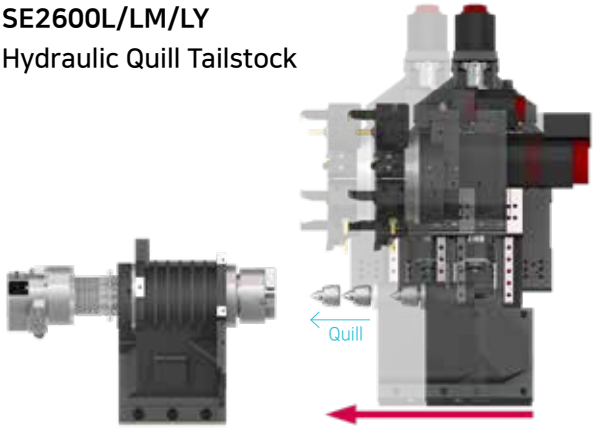
SE2600 series consist of optimized tail stock line-up considering machine's characteristic.
SE2600/M/Y with a standard bed adopts a hydraulic NC tailstock as standard to improve user convenience.
Also, SE2600L/LM/LY with a long bed adopts a hydraulic quill-type tailstock as standard for strong support of long workpiece.

SE2600/M/Y
Hydraulic NC Tailstock



> 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
> MT#4 live center standard application

SE2600L/LM/LY
Hydraulic Quill Tailstock

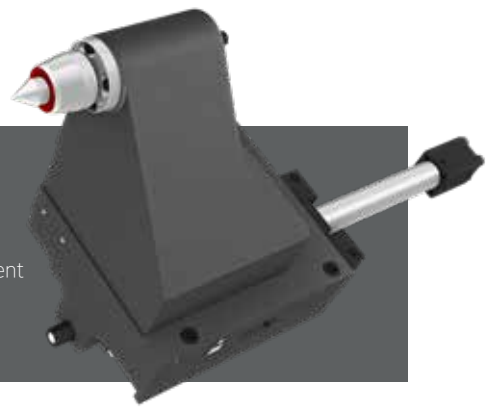


> A structure that moves by fixing the tailstock to the saddle
> After fixing the tailstock, the quill operated by hydraulic pressure advances to stabilize the material
> High rigidity tail spindle and enhancement in thrust
> Suitable for workpieces subject to vibration during machining and heavy machining 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.		
※ 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 drum filter chip conveyor, prior consult with hyudai wia's sales person.

HIGH PRECISION SYSTEM & COOLANT UNIT OPTION



Q-Setter (Automatic/Manual)



Linear Scale



Gun Coolant



High Pressure Coolant



Chuck Coolant (Upper Chuck)



Chuck Air Blow (Upper Chuck)

06 FANUC - Smart Plus

The Compatible All-round Control

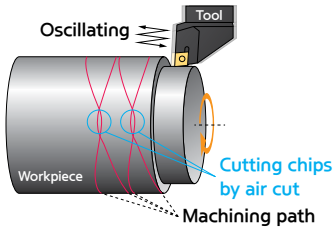


15″ Touch-type Monitor as a standard

Smart Machine Control	Fast Cycle Time Technology
	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

Servo Learning Oscilliation Function for Chip Breaking OPTION

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





(Developed special screen page for servo learning oscilliation function / Even when this function is applied, the cycle time remains same.)

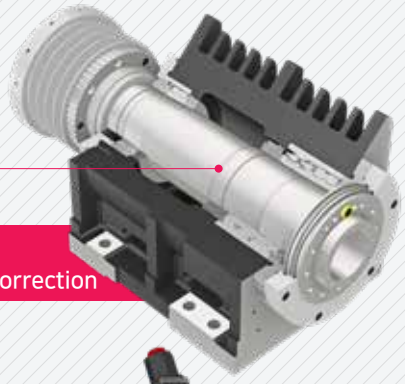
8Ch. Thermal displacement compensation OPTION





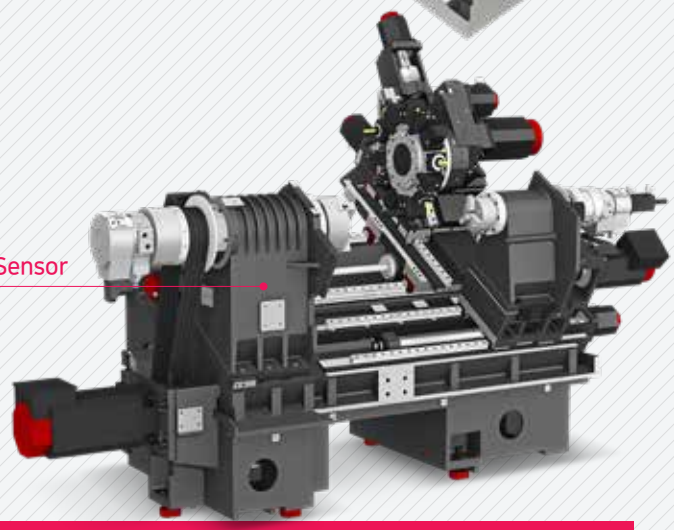
Control Software

Thermal Sensor



Spindle thermal displacement error correction

Thermal Sensor

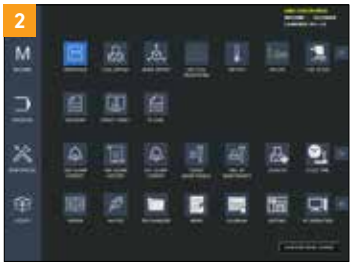


Structure thermal displacement error correction

Machine tools generate thermal displacement due to heat during machining.
WIA MACHINE TOOLS detect thermal changes through thermal sensors installed on the main thermal sources of the machine.
In addition, a thermal displacement compensation device that predicts the amount of thermal displacement according to the amount of thermal change and provides a command to the motor with a compensated value to maintain consistent precision is provided as an option.

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

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

Spindle		SE2600/L	SE2600M/LM
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		●	●
Turret Type	BMT55	-	●
	12 Station 12P	○	●
	12 Station 24P	-	○
Straight Milling Head	Collet Type, 2ea	-	●
Angular Milling Head	Collet Type, 2ea	-	●
Straight Milling Head	Adapter Type	-	○
Angular Milling Head	Adapter Type	-	○
Boring Sleeve		●	●
Drill Socket		○	○
U-Drill Holder		●	●
U-Drill CAP		●	●
Angle Head		-	☆
Tail Stock & Steady Rest			
Hydraulic NC Tail Stock (Std. Live Center)		●/-	●/-
Quill Type Tail Stock	Manual	○/●	○/●
	Programable	○	○
	MT4 Live	○/●	○/●
	MT5 Live	○	○
	MT4 Built-in	○	○
High Precesion 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(200 ℓ [52.8 gal])	●/-	●/-
	Front(230 ℓ [60.8 gal])	-/●	-/●
	Front(170 ℓ [44.9 gal])	○	○
Chip Conveyor (Hinge/Scraper)	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	☆	☆

Electric Device		SE2600/L	SE2600M/LM
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	FANUC	○	○
	SIEMENS	-	-
AVR (Auto Voltage Regulator)		☆	☆
Transformer	25kVA	○	○
Measurement		○	○
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		☆	☆
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/20 ℓ (5.3gal)	●	●
S/W			
Dialogue Program (HW-DPRO)		○	○
DNC software (HW-eDNC)		○	○
SmartGuide-i : FANUC		●	●
Smart S/W		☆	☆
Safety Device			
Front Door Interlock		●	●
Total Splash Guard		●	●
Back Spin Torque Limiter (BST)		●	●
Chuck Hydraulic Pressure Maintenance Interlock		☆	☆
ETC			
Tool Box		●	●
Customized Color	Need Munsel No.	☆	☆
CAD & CAM		☆	☆
Thermal displacement compensation		○	○

※ 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

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

Spindle		SE2600Y/LY	SE2600SY/LSY
Main Sp. Hollow Chuck 3 Jaw	10″	●	●
Main Sp. Solid Chuck 3 Jaw	10″	○	○
Sub Sp. Hollow Chuck 3 Jaw	6″	-	●
Sub Sp. Solid Chuck 3 Jaw	6″	-	○
Standard Soft Jaw (1set)		●	●
Chuck Clamp Foot Switch		●	●
2 Steps Hyd, Pressure Device		○	○
Spindle Inside Stopper		☆	☆
Cs-Axis (0.001°)	Main	●	●
	Sub	-	●
Chuck Open/Close Confirmation Device		●	●
2 Steps Chuck Foot Switch		○	○
Sub Sp. Foot Switch		-	●
Turret			
Tool Holder		●	●
Turret Type	BMT55	●	●
	12 Station 12P	●	●
	12 Station 24P	○	○
Straight Milling Head	Collet Type, 2ea	●	●
Angular Milling Head	Collet Type, 2ea	●	●
Straight Milling Head	Adapter Type	○	○
Angular Milling Head	Adapter Type	○	○
Boring Sleeve		●	●
Drill Socket		○	○
U-Drill Holder		●	●
U-Drill CAP		●	●
Angle Head		☆	☆
Adapter Set		○	○
Tail Stock & Steady Rest			
Hydraulic NC Tail Stock (Std. Live Center)		●/-	-
Quill Type Tail Stock	Manual	○/●	-
	Programable	○	-
	MT4 Live	○/●	-
	MT5 Live	○	-
	MT4 Built-in	○	-
High Precesion 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)		☆	☆
Bed Flushing (Only for Rear Coolant Tank)		○	○
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(200 ℓ [52.8 gal])	●/-	●/-
	Front(230 ℓ [60.8 gal])	-/●	-/●
	Front(170 ℓ [44.9 gal])	○	○
Chip Conveyor (Hinge/Scraper)	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	☆	☆

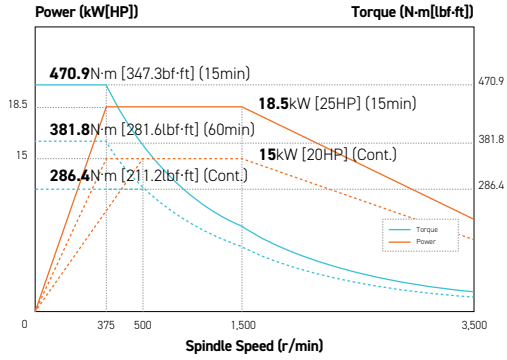
Electric Device		SE2600Y/LY	SE2600SY/LSY
Call Light	1Color : ■	●	●
Call Light & Buzzer	3Color : ■■■B	○	○
Electric Cabinet Light		○	○
Remote MPG		○	○
Work Counter	Digital	○	○
Total Counter	Digital	○	○
Tool Counter	Digital	○	○
Multi Tool Counter	6ea	○	○
	9ea	○	○
Electric Circuit Breaker	FANUC	○	○
	SIEMENS	-	-
AVR (Auto Voltage Regulator)		☆	☆
Transformer	30kVA	○	○
Measurement		○	○
Q-Setter		○	○
Automatic Q-Setter		○	○
Work Close Confirmation Device (Only for Special Chuck)	TACO	○	○
	SMC	○	○
Work Setter		☆	☆
Linear Scale	X/Y/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		☆	☆
Sub Sp. Work Pusher (Spring Type)		-	○/-
Sub Sp. Work Ejector (Pneumatic Type)		-	○/-
Extra M-Code 4ea		○	○
Automation Interface		☆	☆
I/O Extension (IN & OUT)	16 Contact	○	○
	32 Contact	○	○
Parts Catcher	Main	○	○
	Sub	-	○/-
Turret Work Pusher (For Automation)		☆	☆
Parts Conveyor (Required Main Parts Catcher)		○	○
Semi Automation System		☆	☆
Hyd. Device			
Standard Hyd. Cylinder	Hollow	●	●
Standard Hyd. Unit	35bar/20 ℓ (5.3gal)	●	●
S/W			
Dialogue Program (HW-DPRO)		○	○
DNC software (HW-eDNC)		○	○
SmartGuide-i : FANUC		●	●
Smart S/W		☆	☆
Safety Device			
Front Door Interlock		●	●
Total Splash Guard		●	●
Back Spin Torque Limiter (BST)		●	●
Chuck Hydraulic Pressure Maintenance Interlock		☆	☆
ETC			
Tool Box		●	●
Customized Color	Need Munsel No.	☆	☆
CAD & CAM		☆	☆
Thermal displacement compensation		○	○

※ 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.

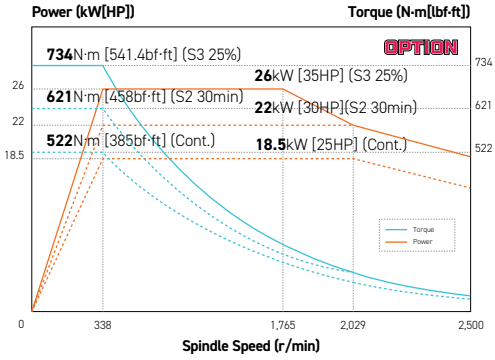
SPECIFICATIONS

Spindle Output/Torque Diagram

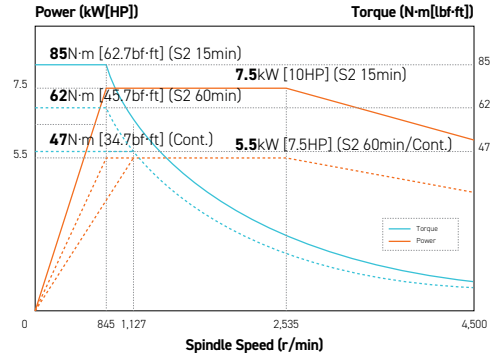
FANUC Main 3,500 rpm



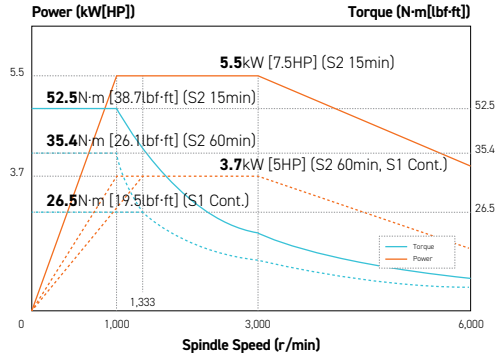
FANUC Main 2,500 rpm (Power Up)



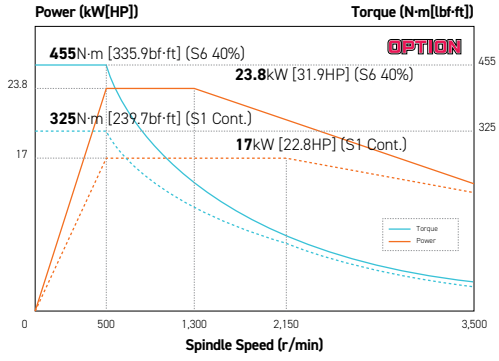
FANUC Sub 4,500 rpm



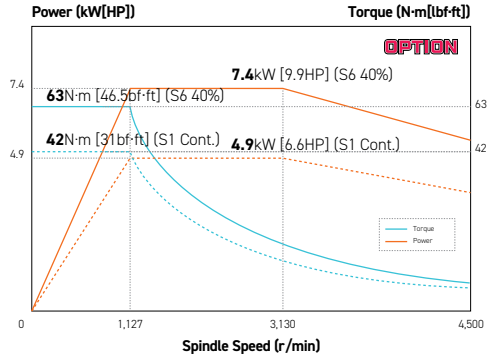
FANUC Mill Turret 6,000 rpm



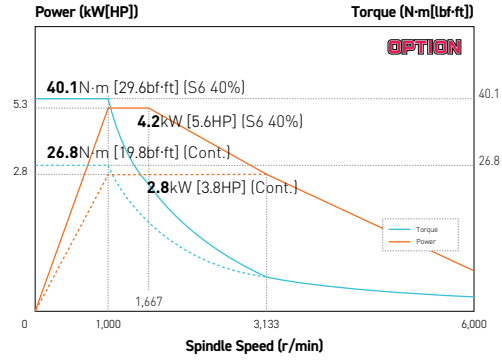
SIEMENS Main 3,500 rpm



SIEMENS Sub 6,000 rpm

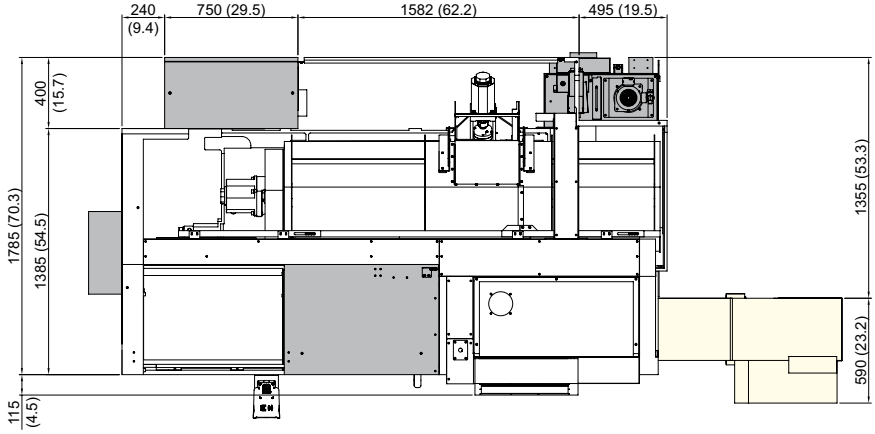


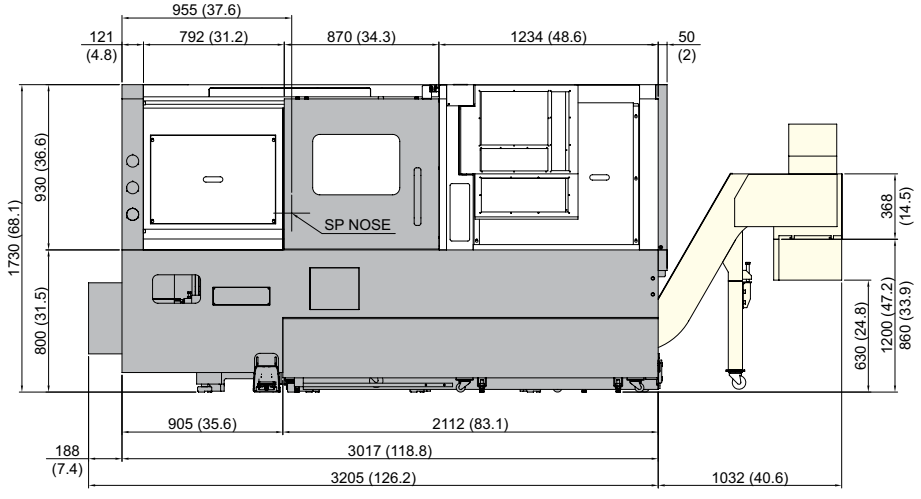
SIEMENS Mill Turret 6,000 rpm

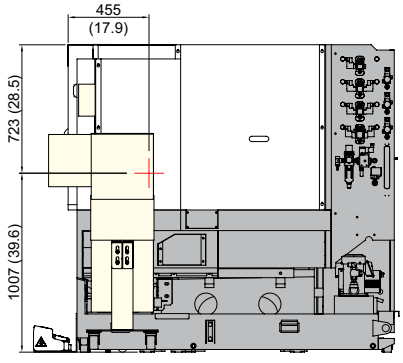


External Dimensions (SE2600 | SE2600M)

unit : mm(in)



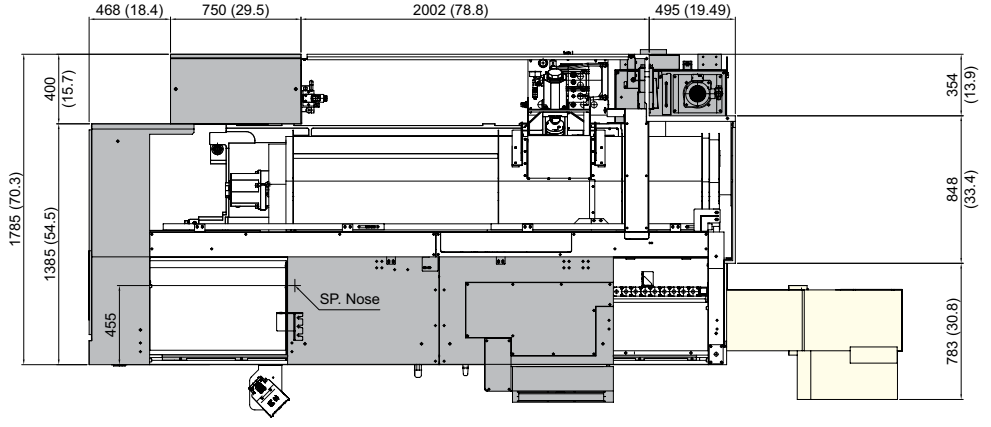


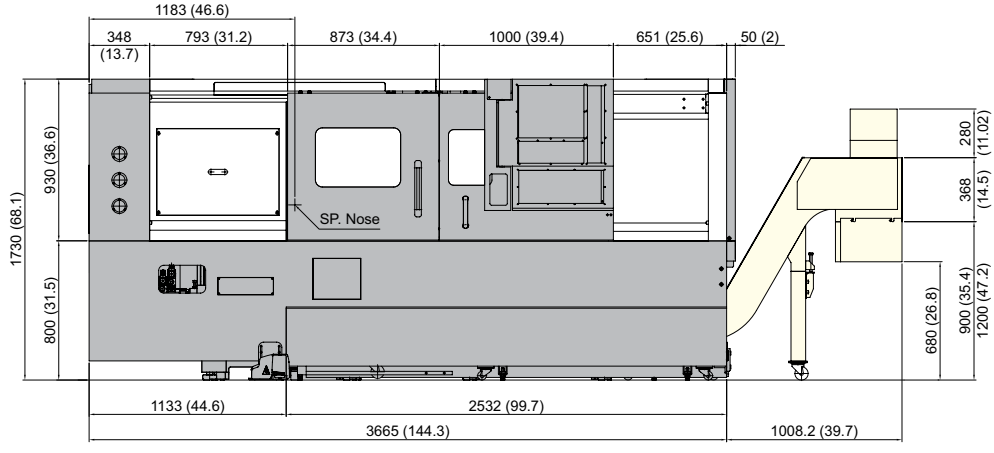


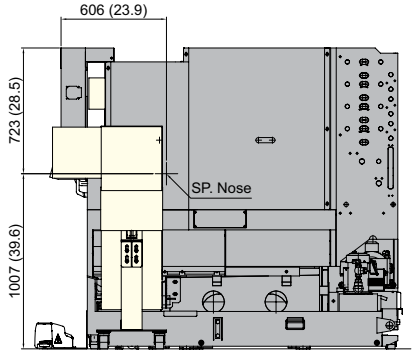
SPECIFICATIONS

External Dimensions (SE2600L | SE2600LM)

unit : mm(in)

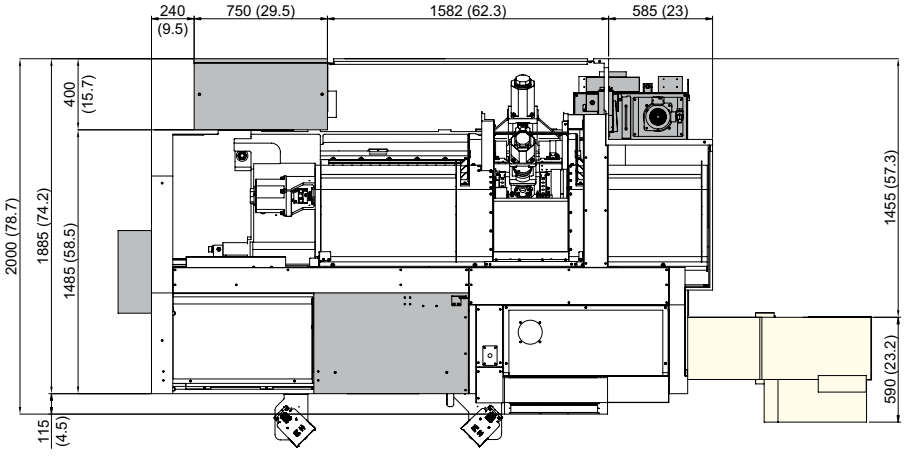


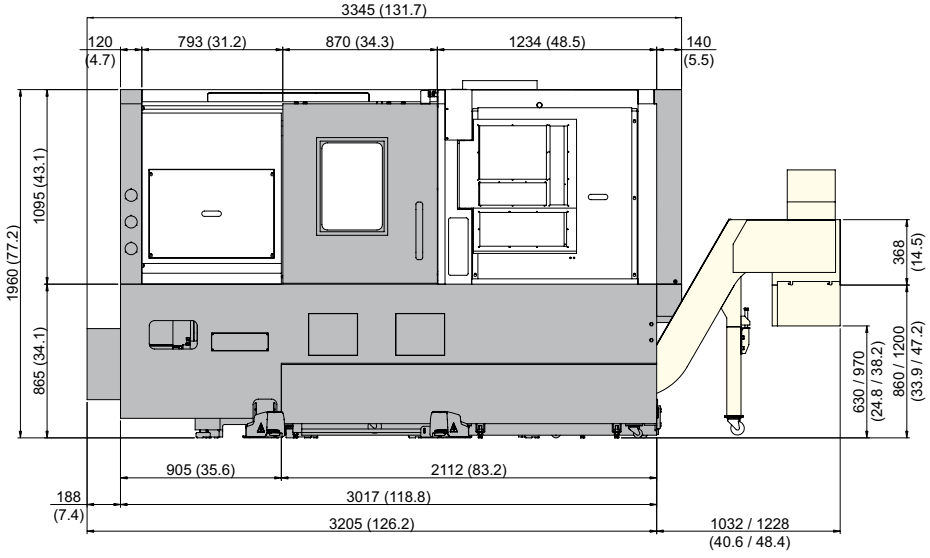


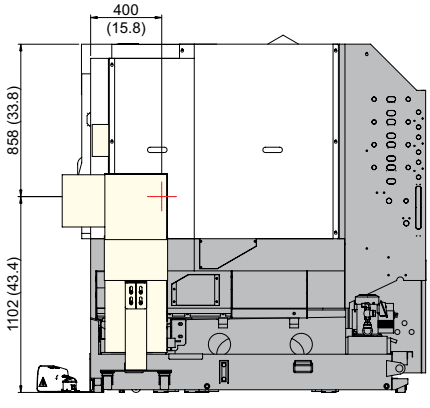


External Dimensions (SE2600Y | SE2600YS)

unit : mm(in)



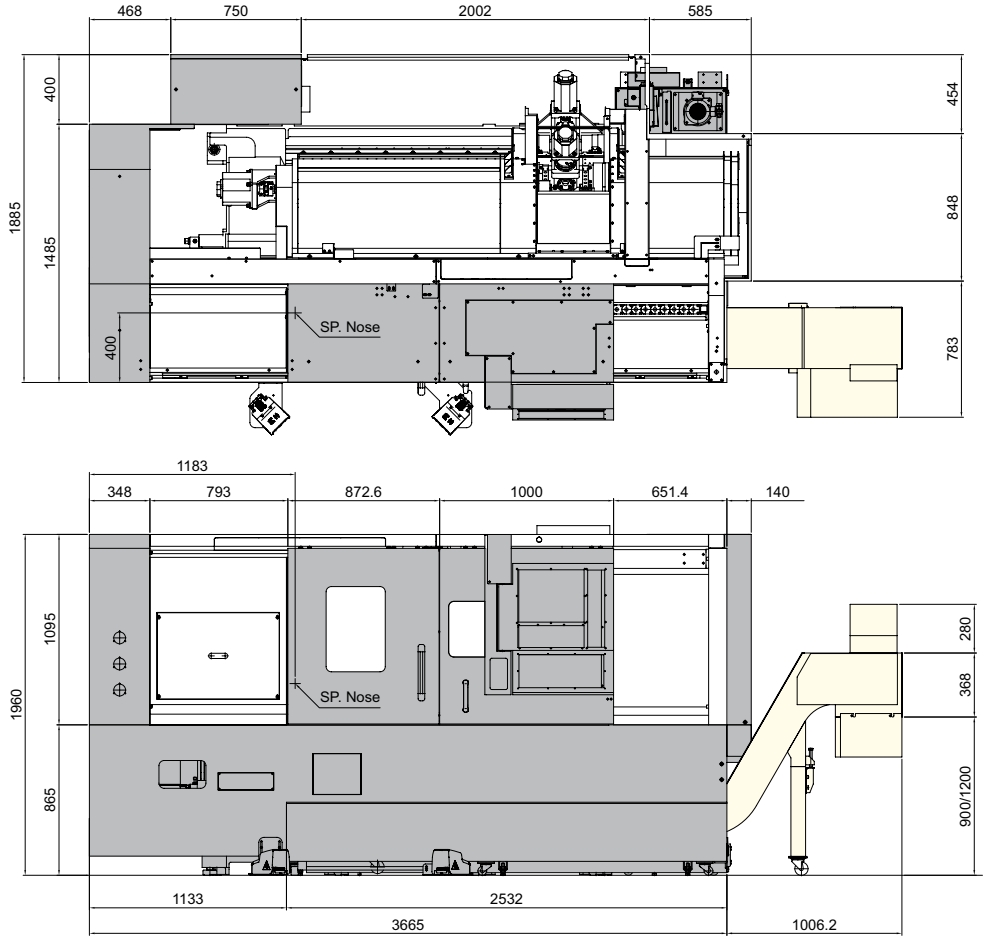


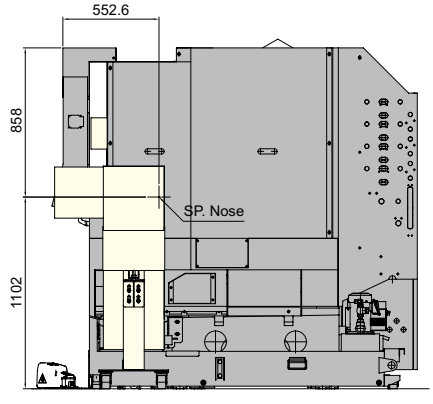


SPECIFICATIONS

External Dimensions (SE2600LY | SE2600LSY)

unit : mm(in)



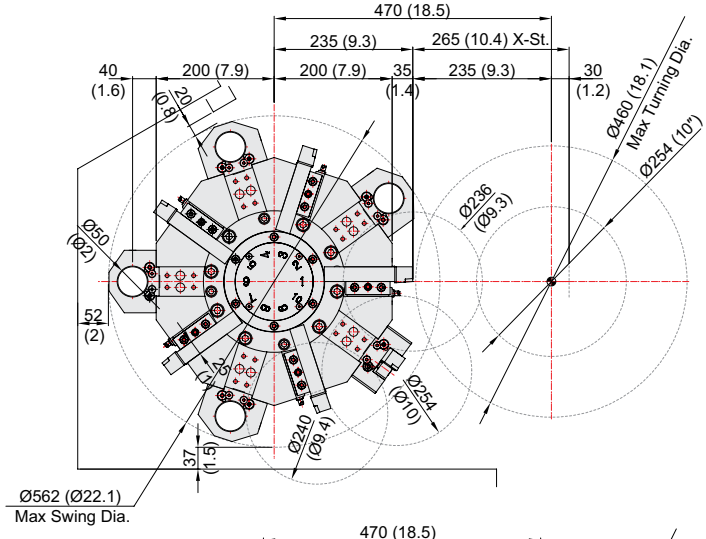


Interference

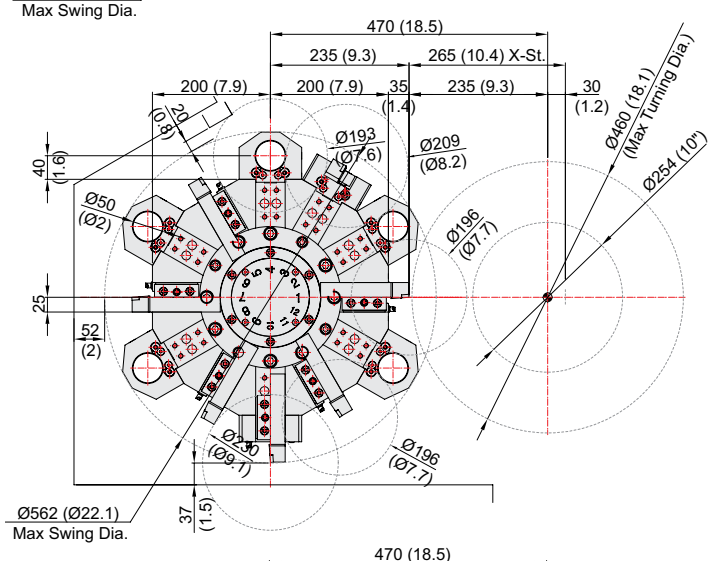
unit : mm(in)

SE2600
SE2600L

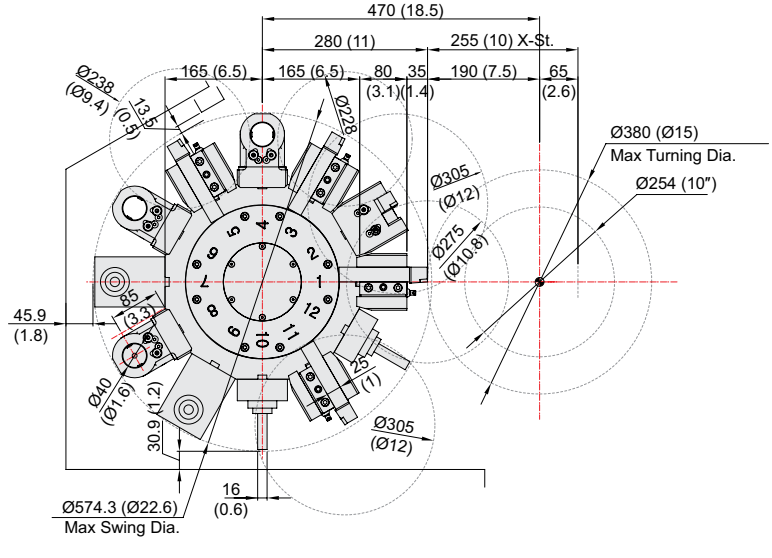
10 Position



12 Position : Opt.



SE2600M
SE2600LM

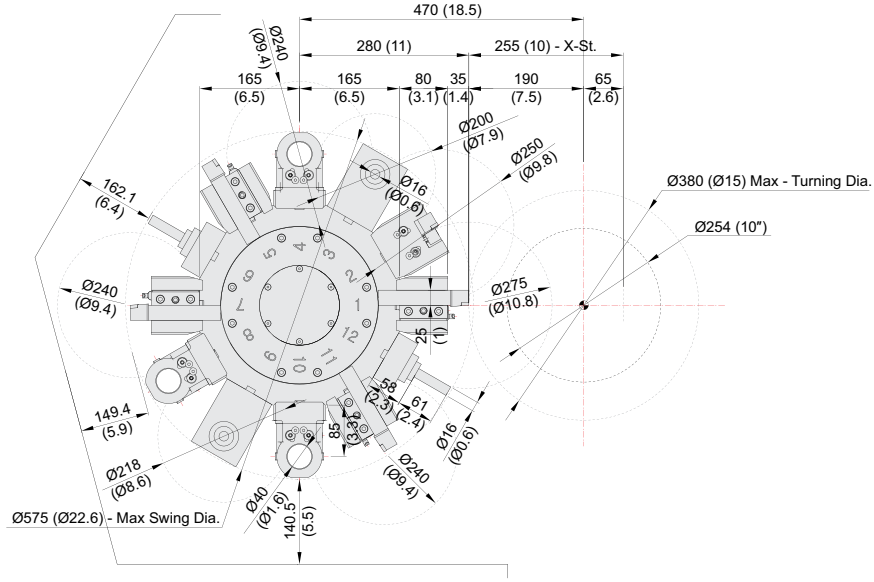


SPECIFICATIONS

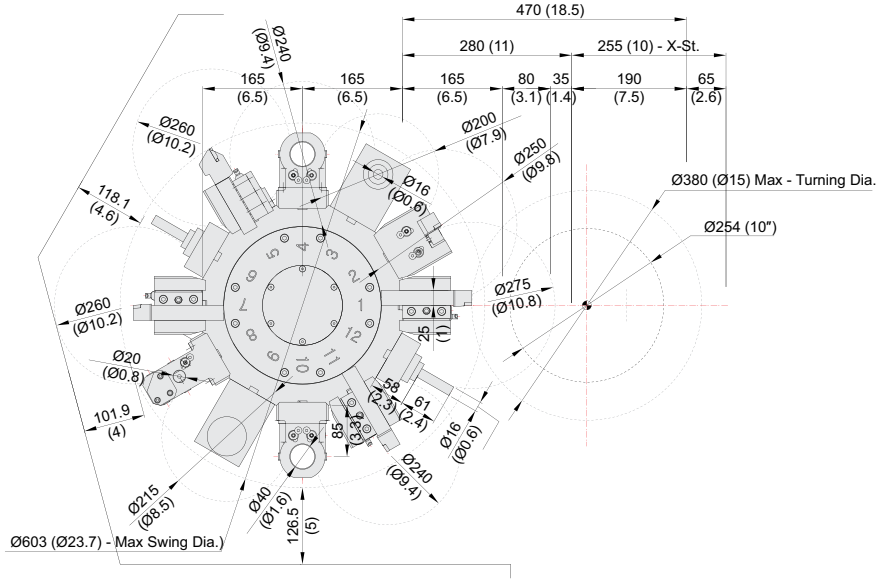
Interference

unit : mm(in)

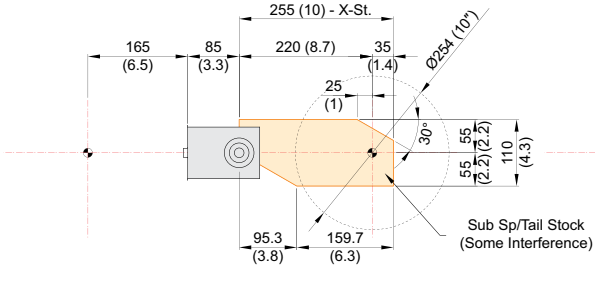
SE2600Y
SE2600LY



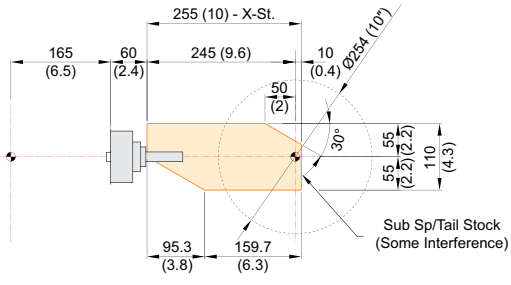
SE2600SY
SE2600LSY



Angular Milling Y-St.

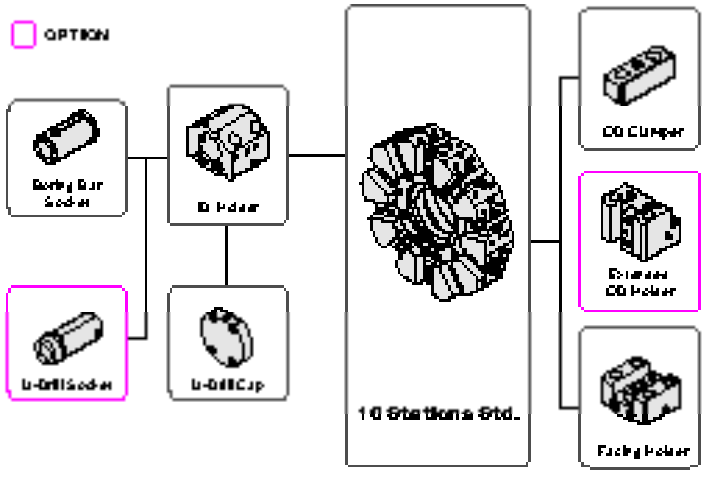


Straight Milling Y-St.



Tooling System (SE2600/L)

unit : mm(in)



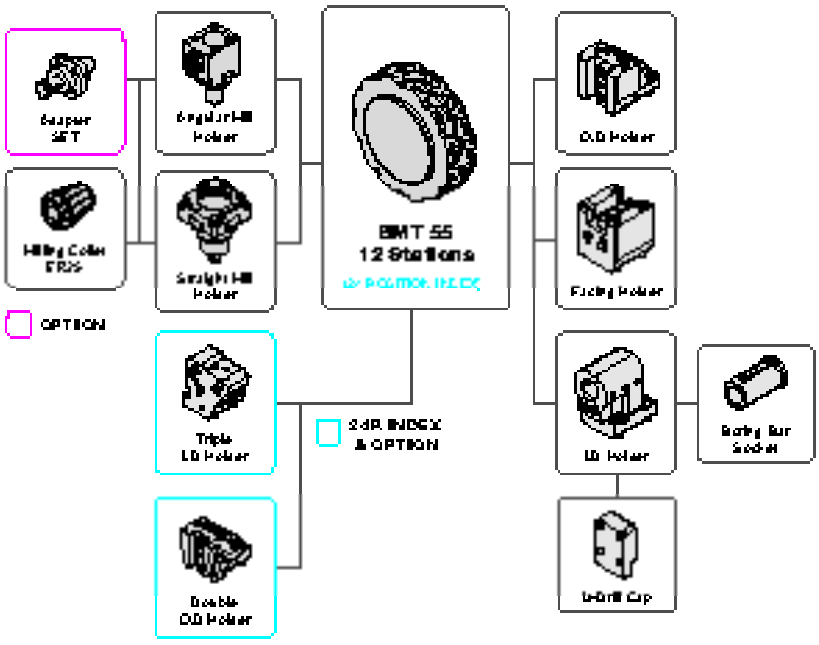
Tooling Parts Detail

ITEM			10 Position		12 Position : Opt.	
			mm Unit	inch Unit	mm Unit	inch Unit
Turning Holder	O.D Clamper		5	5	6	6
	O.D Holder	Extenstion	Opt.	Opt.	1	1
	Facing Holder		1	1	1	1
Boring Holder	I.D Holder	Single	4	4	5	5
	U-Drill	Cap	1	1	1	1
Driven Holder	Straight Mill Holder	Standard	-	-	-	-
		TTC	-	-	-	-
	Angular Mill Holder	Standard	-	-	-	-
		TTC	-	-	-	-
Socket	Boring	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
		Ø32 (Ø1 1/4")	1	1	1	1
		Ø40 (Ø1 1/2")	1	1	1	1
	Drill	MT 1 x MT 2	Opt.	Opt.	Opt.	Opt.
		MT 2	Opt.	Opt.	Opt.	Opt.
		MT 3	Opt.	Opt.	Opt.	Opt.
		MT 4	Opt.	Opt.	Opt.	Opt.
	ER Collet		-	-	-	-

SPECIFICATIONS

Tooling System (SE2600M/LM | SE2600Y/LY)

unit : mm(in)



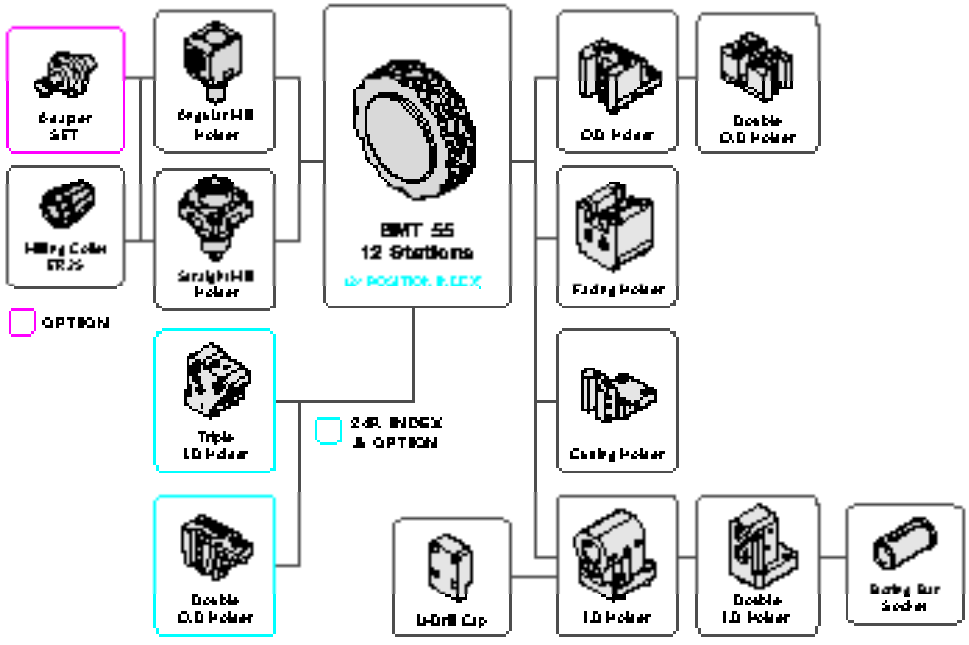
Tooling Parts Detail

ITEM			12 Position		24 Position : Opt.	
			mm Unit	inch Unit	mm Unit	inch Unit
Turning Holder	O.D Holder	Right/Left	4	4	3	3
		Double	-	-	1	1
	Facing Holder		1	1	1	1
	Cutting Holder		-	-	-	-
Boring Holder	I.D Holder	Single	3	3	2	2
		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
		Ø32 (Ø1 1/4")	1	1	1	1
	Drill	MT 1	Opt.	Opt.	Opt.	Opt.
		MT 2	Opt.	Opt.	Opt.	Opt.
		MT 3	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.

Tooling System (SE2600SY/LSY)

unit : mm(in)



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	1	1
		Double (Main & Sub)	1	1	-	-
		Double (Main)	-	-	1	1
		Double (Sub)	-	-	1	1
	Facing Holder		1	1	1	1
	Cutting Holder		1	1	1	1
Boring Holder	I.D Holder	Single	2	2	2	2
		Double	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	Main Spindle 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
		Ø32 (Ø1 1/4″)	1	1	1	1
	Sub Spindle Boring	Ø8 (Ø5/16″)	1	1	1	1
		Ø12 (Ø1/2″)	1	1	1	1
		Ø16 (Ø5/8″)	1	1	1	1
	Drill	MT 1	Opt.	Opt.	Opt.	Opt.
		MT 2	Opt.	Opt.	Opt.	Opt.
		MT 3	Opt.	Opt.	Opt.	Opt.
	ER Collet		1 Set	1 Set	1 Set	1 Set
	Adapter Set		Opt.	Opt.	Opt.	Opt.

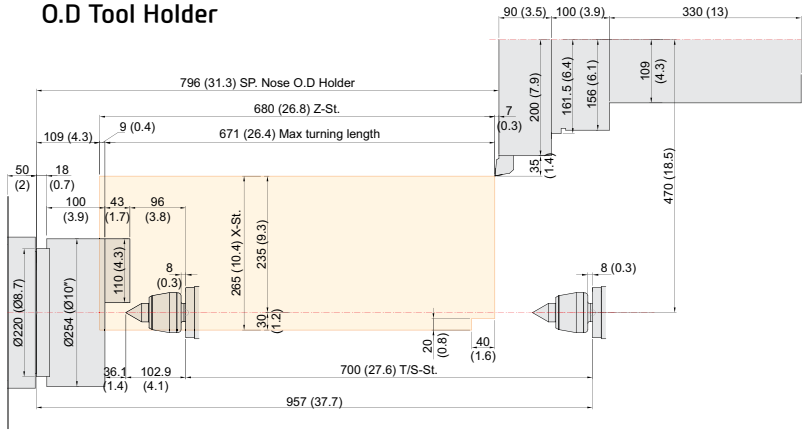
Specifications are subject to change without notice for improvement.

SPECIFICATIONS

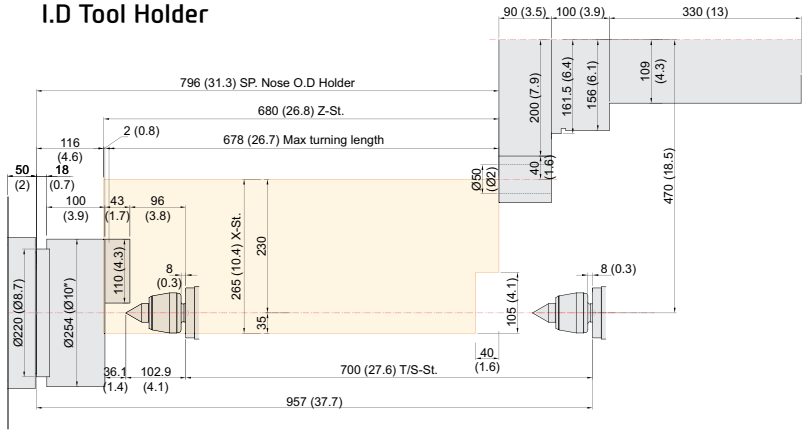
Tooling Travel Range (SE2600)

unit : mm(in)

O.D Tool Holder



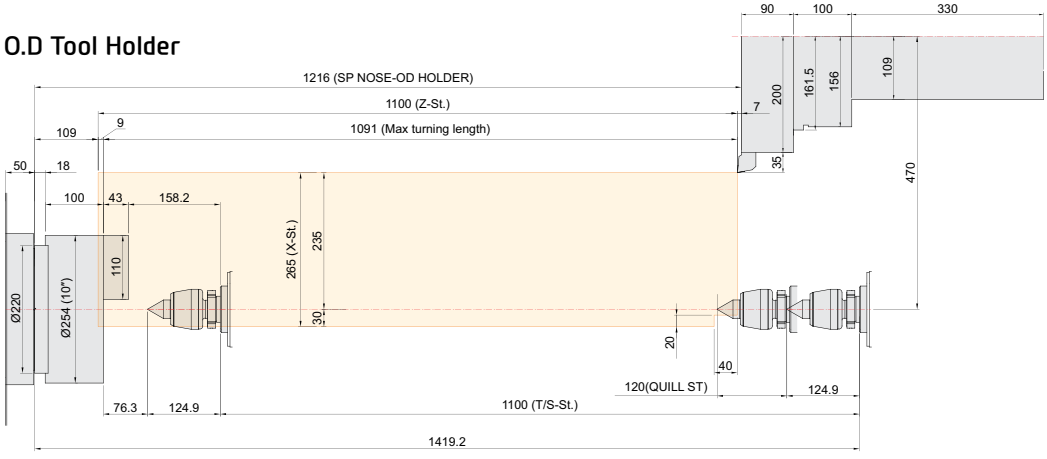
I.D Tool Holder



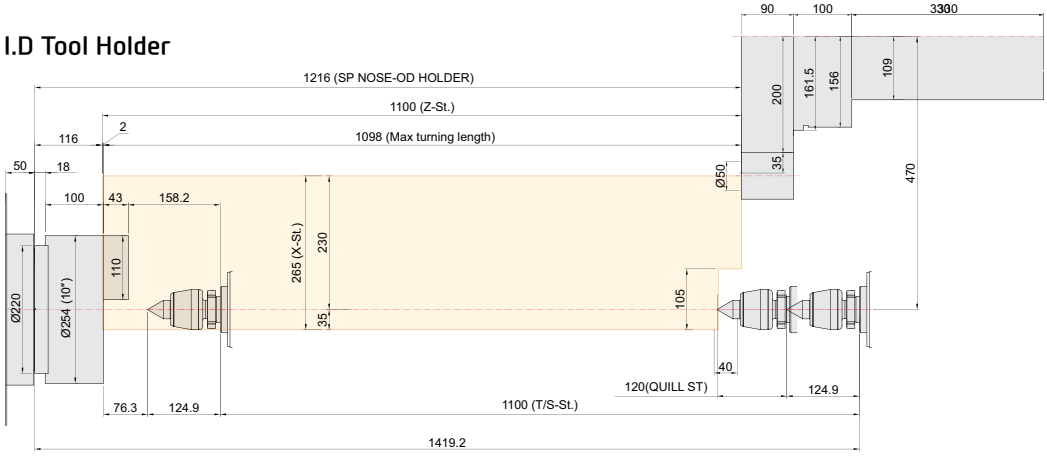
Tooling Travel Range (SE2600L)

unit : mm(in)

O.D Tool Holder



I.D Tool Holder

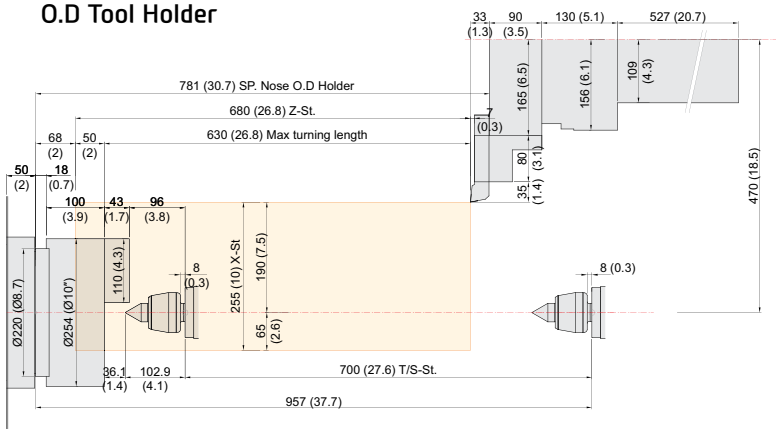


SPECIFICATIONS

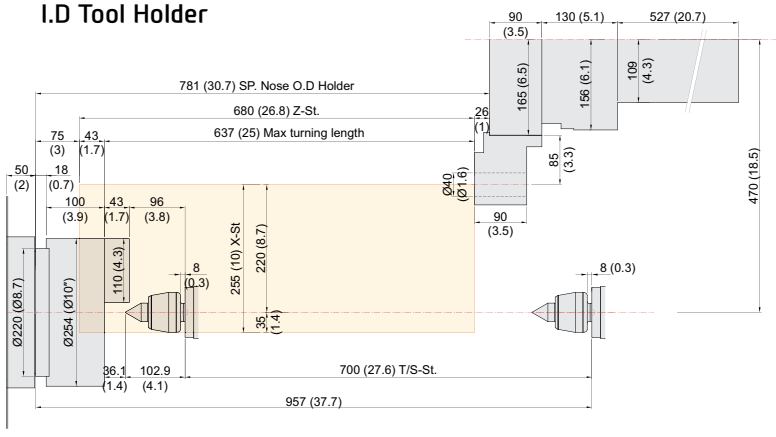
Tooling Travel Range (SE2600M)

unit : mm(in)

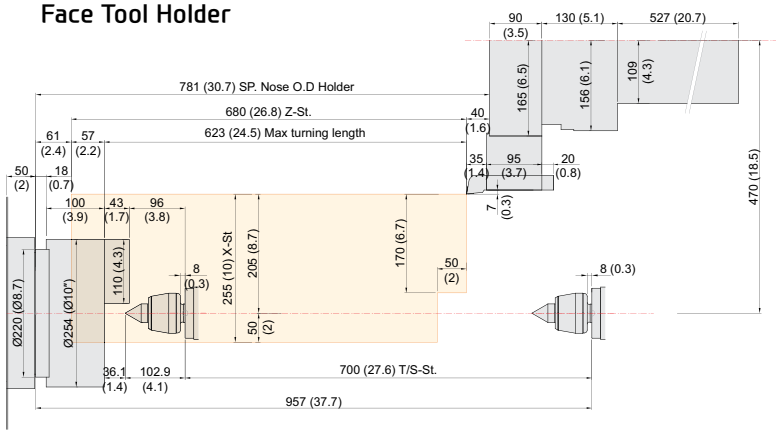
O.D Tool Holder



I.D Tool Holder



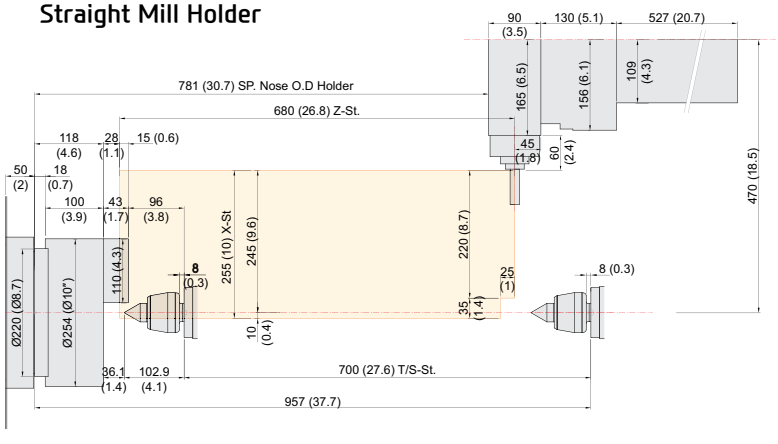
Face Tool Holder



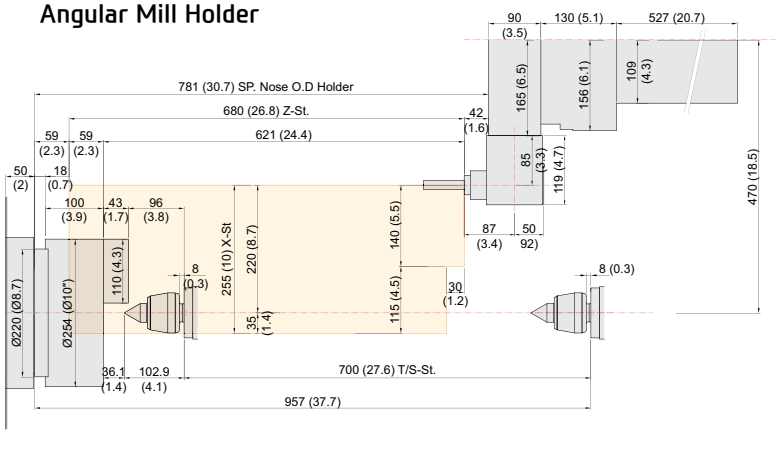
Tooling Travel Range (SE2600M)

unit : mm(in)

Straight Mill Holder



Angular Mill Holder

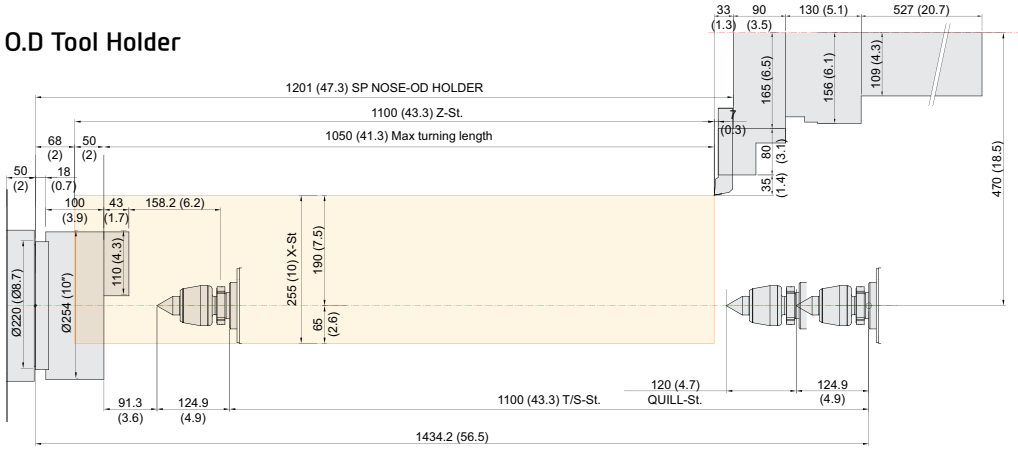


SPECIFICATIONS

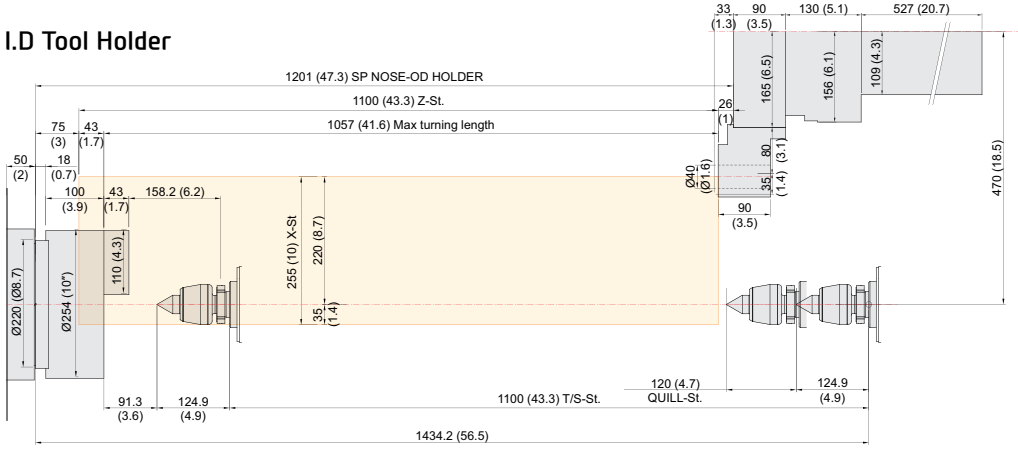
Tooling Travel Range (SE2600LM)

unit : mm(in)

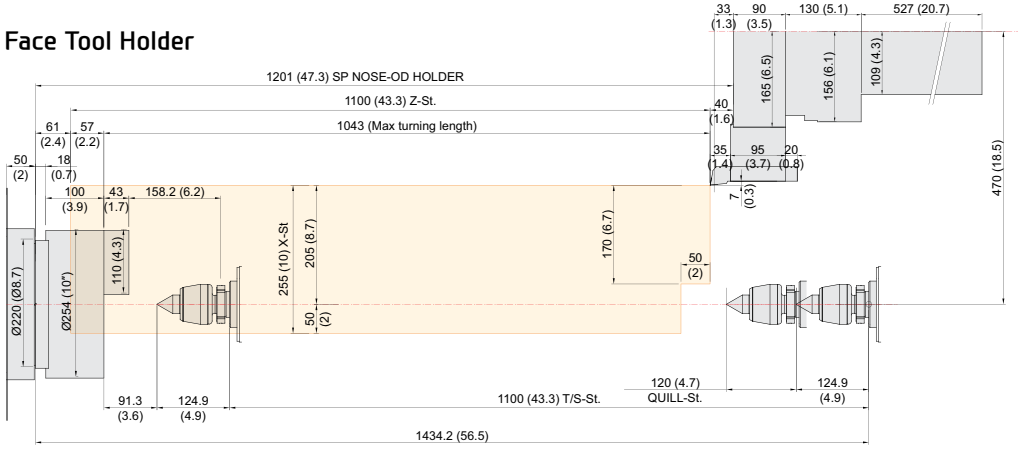
O.D Tool Holder



I.D Tool Holder



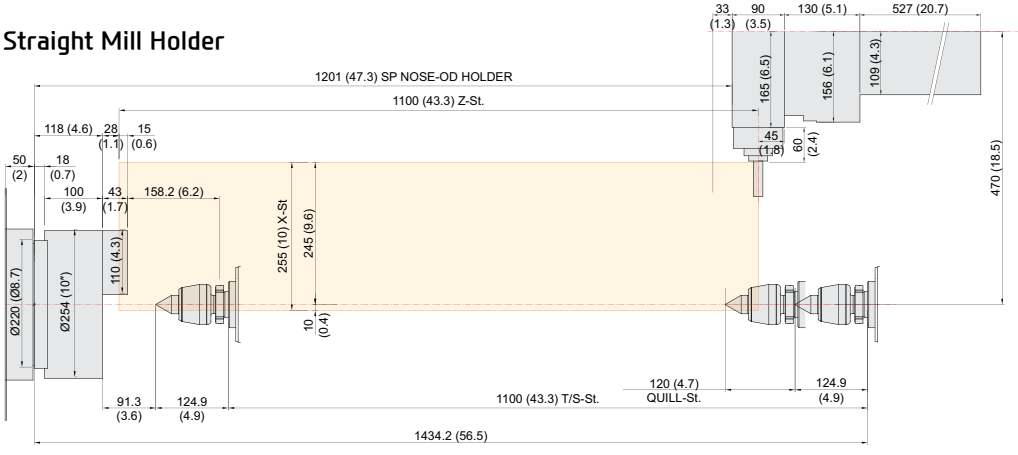
Face Tool Holder



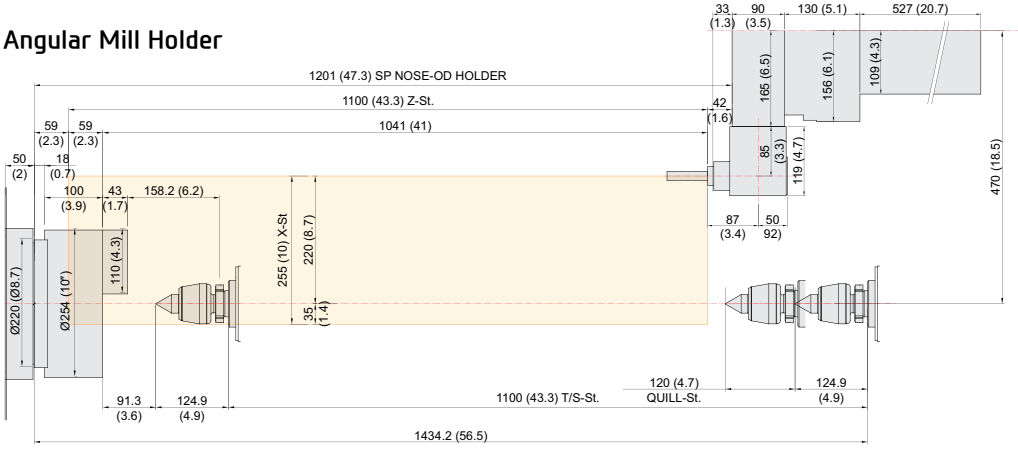
Tooling Travel Range (SE2600LM)

unit : mm(in)

Straight Mill Holder



Angular Mill Holder

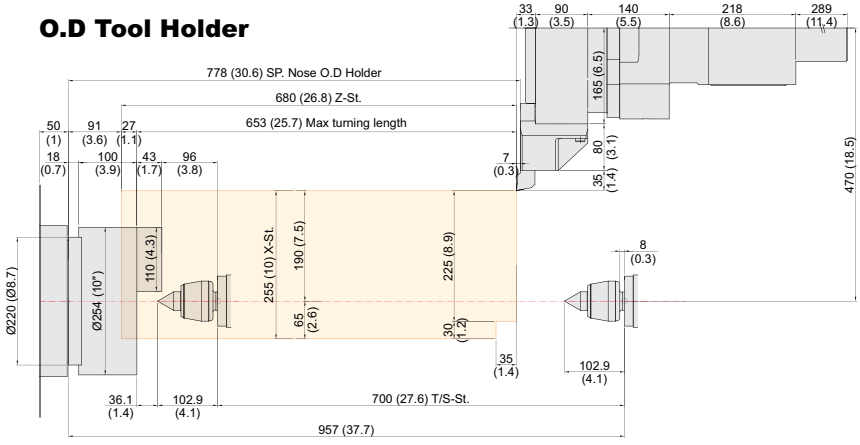


SPECIFICATIONS

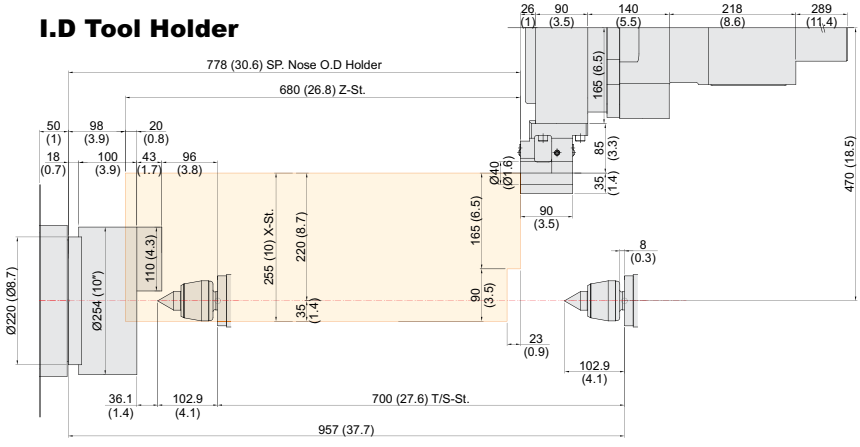
Tooling Travel Range (SE2600Y)

unit : mm(in)

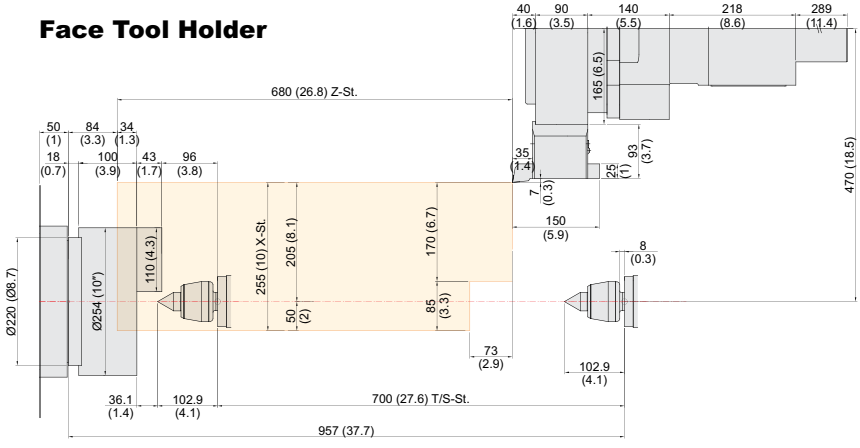
O.D Tool Holder



I.D Tool Holder



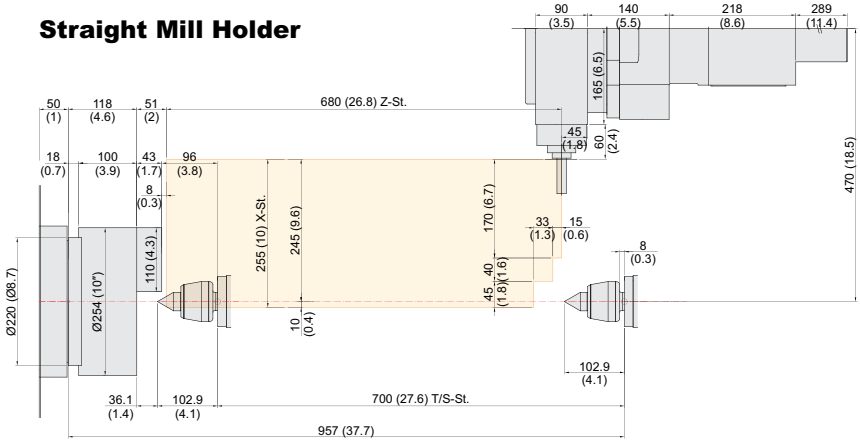
Face Tool Holder



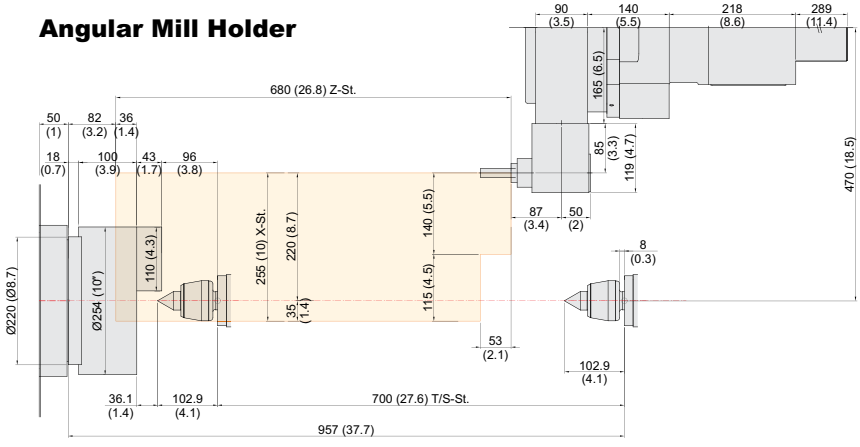
Tooling Travel Range (SE2600Y)

unit : mm(in)

Straight Mill Holder



Angular Mill Holder

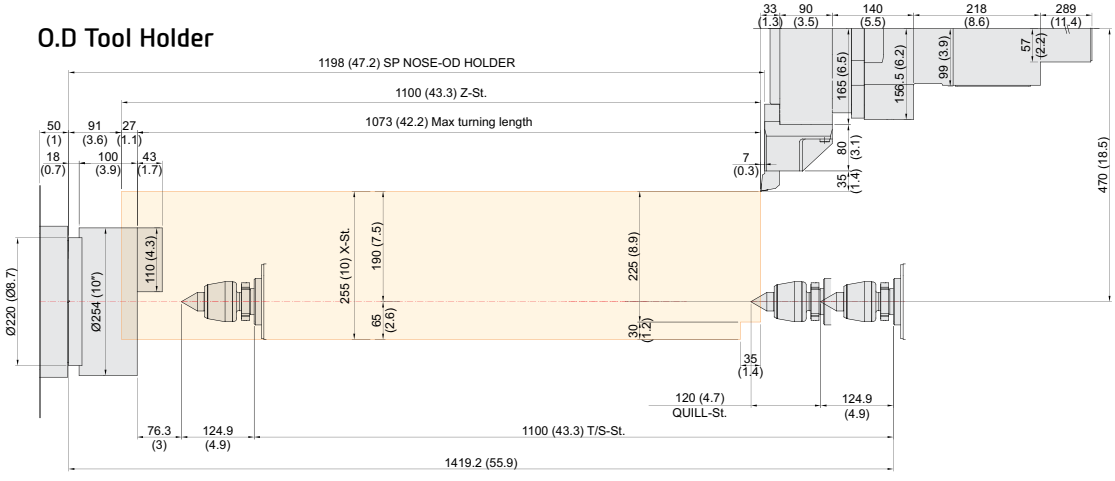


SPECIFICATIONS

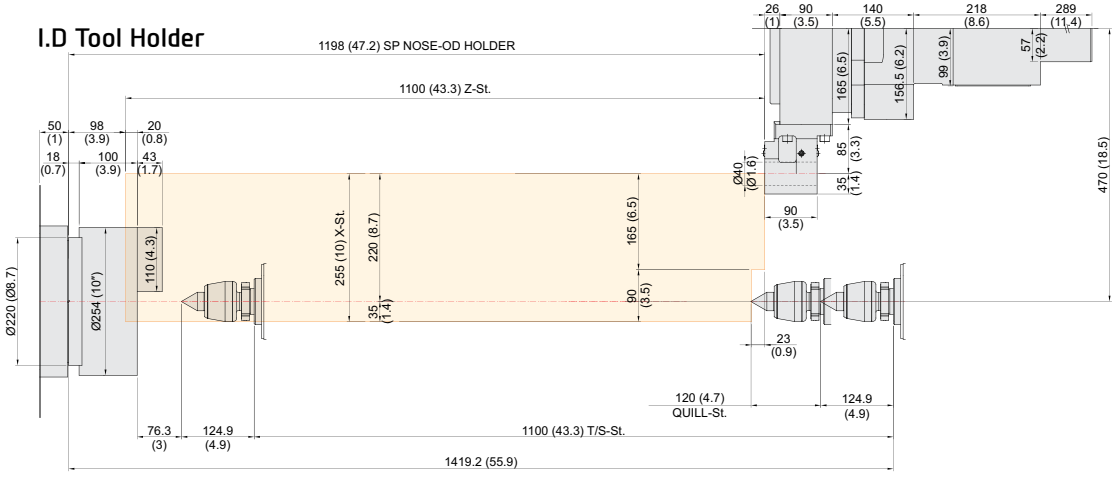
Tooling Travel Range (SE2600LY)

unit : mm(in)

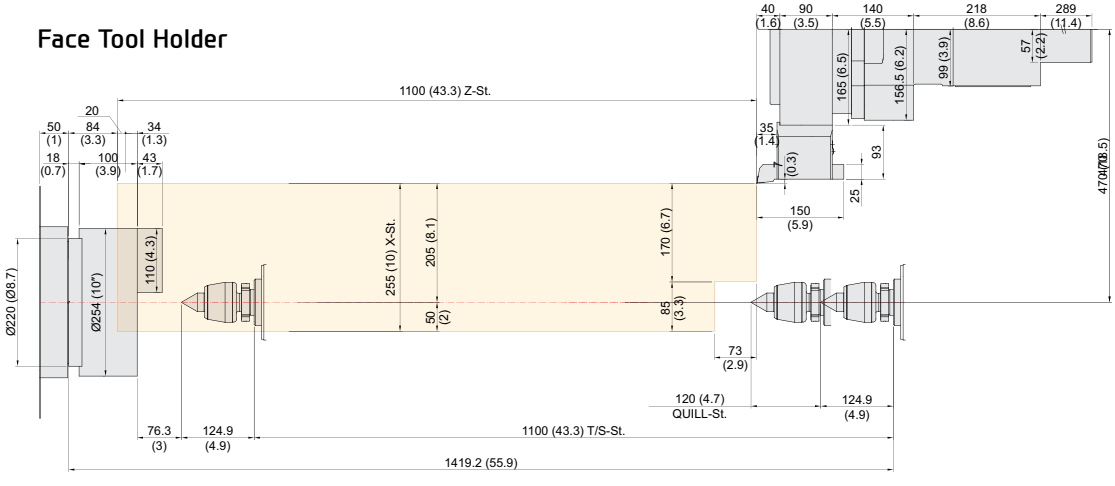
O.D Tool Holder



I.D Tool Holder



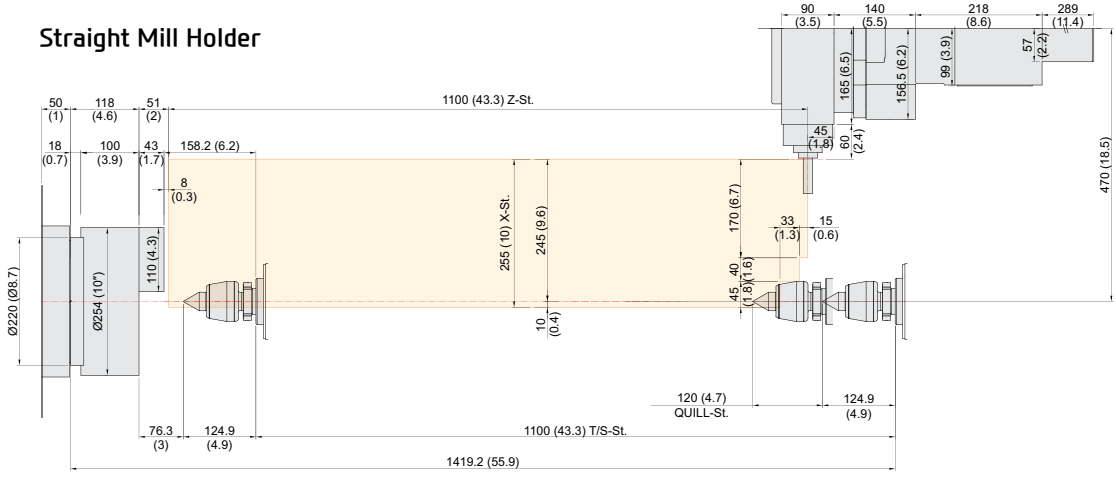
Face Tool Holder



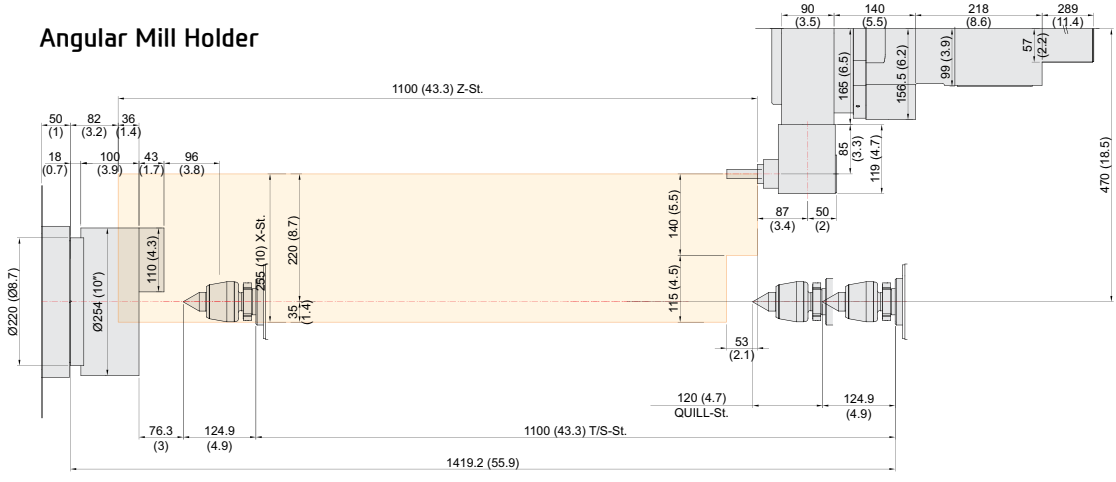
Tooling Travel Range (SE2600LY)

unit : mm(in)

Straight Mill Holder



Angular Mill Holder

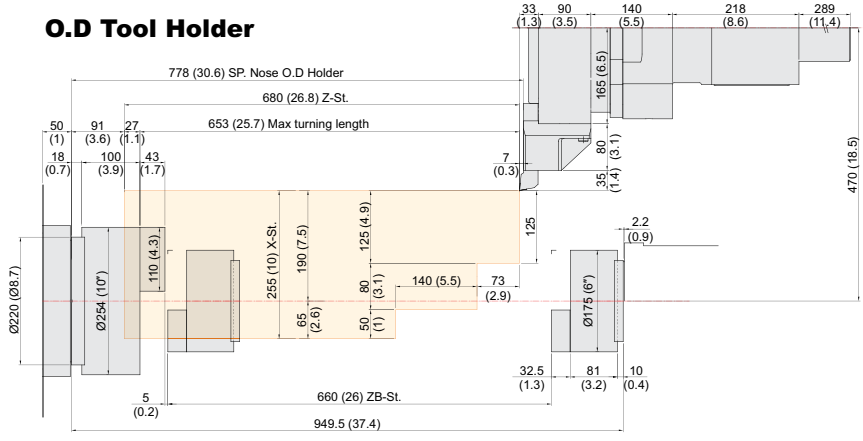


SPECIFICATIONS

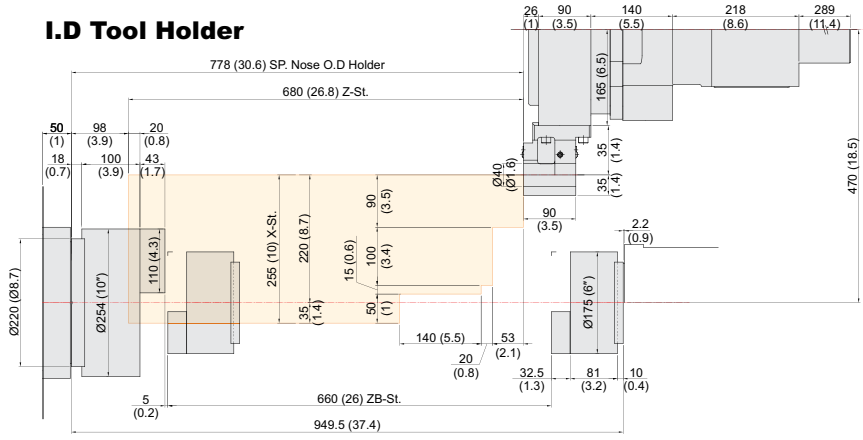
Tooling Travel Range (SE2600SY)

unit : mm(in)

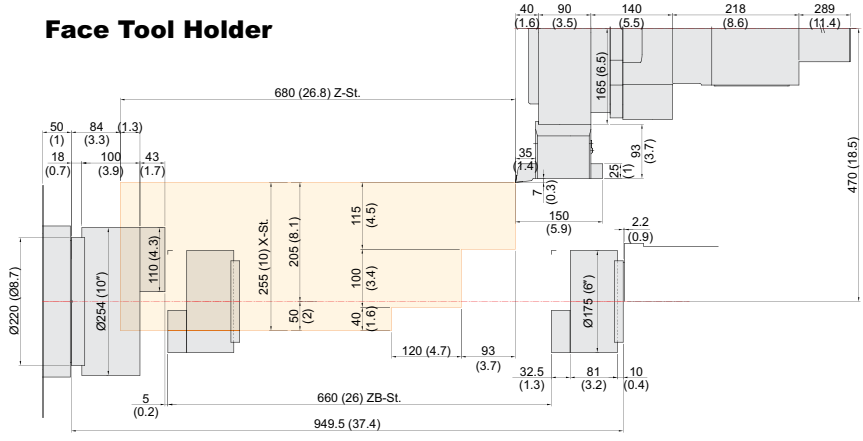
O.D Tool Holder



I.D Tool Holder



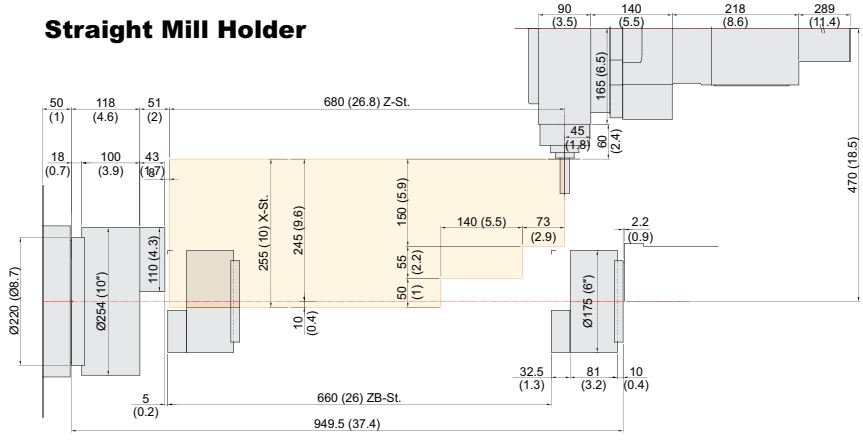
Face Tool Holder



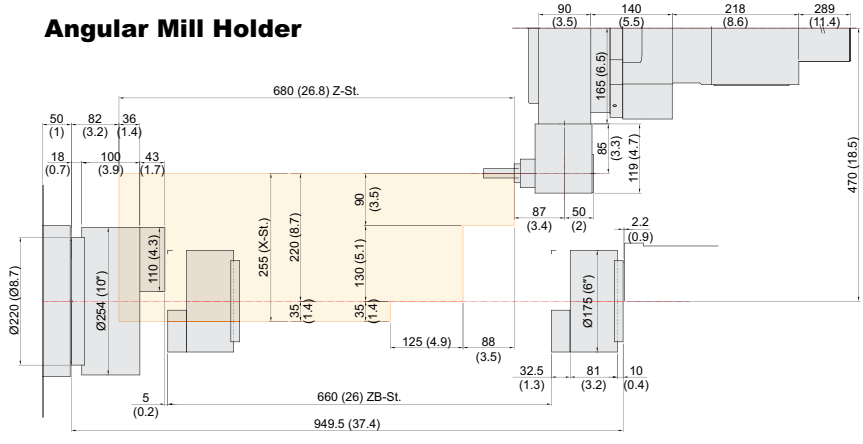
Tooling Travel Range (SE2600SY)

unit : mm(in)

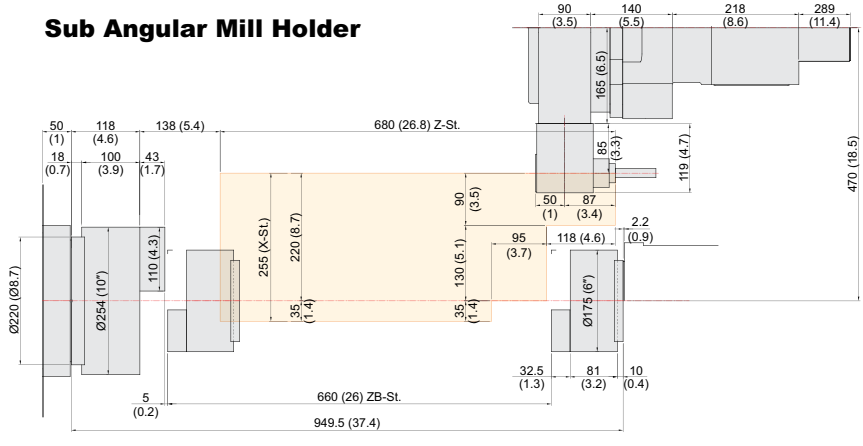
Straight Mill Holder



Angular Mill Holder



Sub Angular Mill Holder

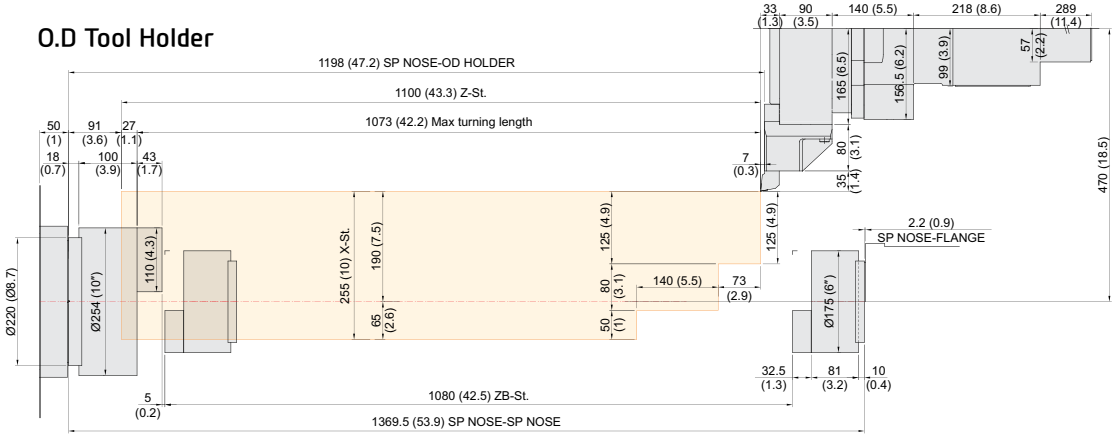


SPECIFICATIONS

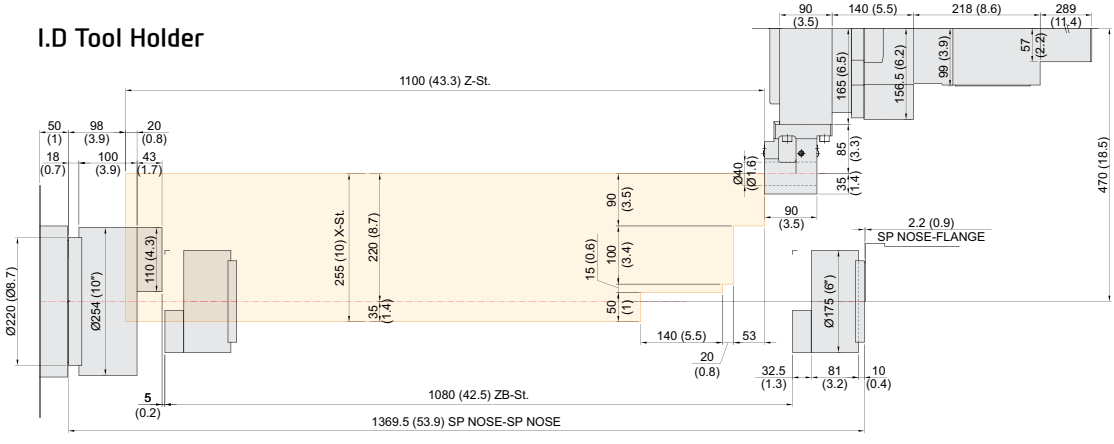
Tooling Travel Range (SE2600LSY)

unit : mm(in)

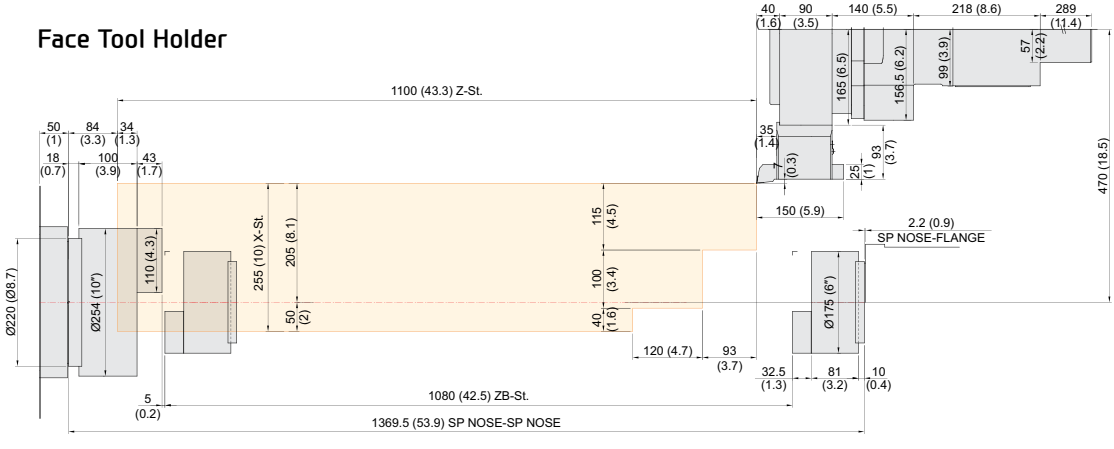
O.D Tool Holder



I.D Tool Holder



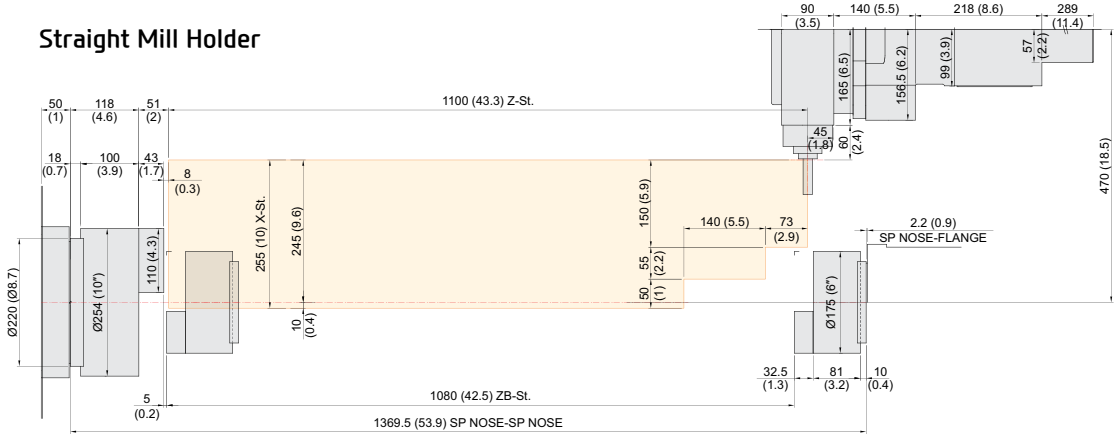
Face Tool Holder



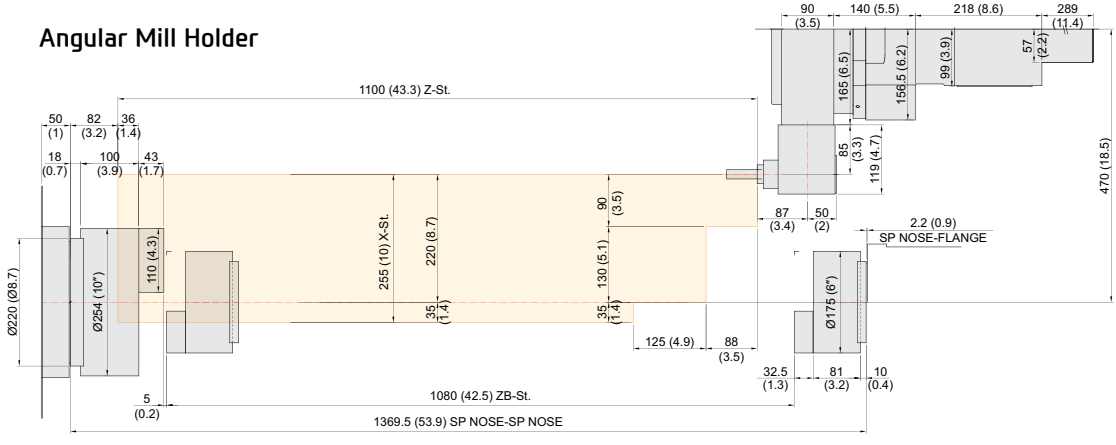
Tooling Travel Range (SE2600LSY)

unit : mm(in)

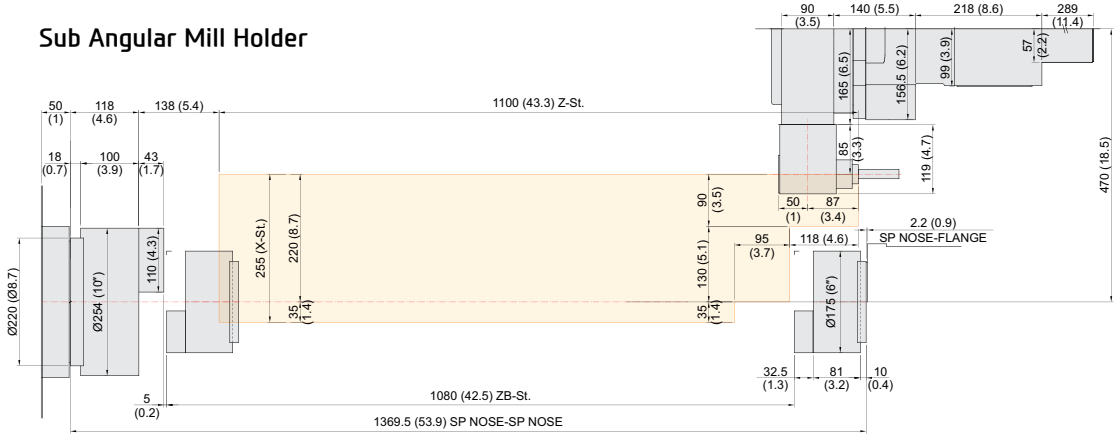
Straight Mill Holder



Angular Mill Holder



Sub Angular Mill Holder



SPECIFICATIONS

Specifications

[ ] : Option ● : SIEMENS

MODEL				SE2600	SE2600L
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″)	
	Max. Turning Length		mm(in)	671 (26.4″)	1,091 (43″)
	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] [3,500]	
	Motor (Max/Cont.)		kW(HP)	18.5/11 (25/15) [26/18.5 (35/25)] [23.8/17 (31.9/22.8)]	
	Torque (Max/Cont.)		N·m (lbf·ft)	470.9/286.4 (347.3/211.2) [734/522 (541.4/385)] [455/325 (335.9/239.7)]	
	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″)	265/1,100 (10.1″/43.3″)
	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]	
	Tool Size	OD	mm(in)	□25 (□1″)	
		ID	mm(in)	Ø50 (Ø2″)	
	Indexing Time		sec	0.15	
LIVE TOOL	Motor (Max/Cont.)		kW(HP)	-	
	Milling Tool Speed (rpm)		r/min	-	
	Torque (Max/Cont.)		N·m (lbf·ft)	-	
	Collet Size		mm(in)	-	
	Type		-	-	
TAIL STOCK	Taper		-	MT#4	
	Quill Dia.		mm(in)	-	Ø80 (Ø3.1″)
	Quill Travel		mm(in)	-	120 (4.7″)
	Travel		mm(in)	700 (27.6″)	1,100 (43.3″)
TANK CAPACITY	Coolant Tank		ℓ (gal)	200 (52.8)	230 (60.8)
	Lubricating Tank		ℓ (gal)	0.7 (0.18)	1.8 (0.48)
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″)	3,715×2,000 (146.3″×78.7″)
	Height		mm(in)	1,730 (68.1″)	
	Weight		kg(lb)	4,200 (9,259)	5,000 (11,023)
NC	Controller		-	FANUC i Series - Smart Plus [SIEMENS 828D]	

Specifications are subject to change without notice for improvement.

SPECIFICATIONS

Specifications

[ ] : Option ● : SIEMENS

MODEL				SE2600M	SE2600LM
CAPACITY	Swing Over the Bed		mm(in)	Ø600 (Ø23.6″)	
	Swing Over the Carriage		mm(in)	Ø460 (18.1″)	
	Max. Turning Dia.		mm(in)	Ø380 (15″)	
	Max. Turning Length		mm(in)	630 (24.8″)	1,050 (41.3″)
	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] [3,500]	
	Motor (Max/Cont.)		kW(HP)	18.5/11 (25/15) [26/18.5 (35/25)] [23.8/17 (31.9/22.8)]	
	Torque (Max/Cont.)		N·m (lbf·ft)	470.9/286.4 (347.3/211.2) [734/522 (541.4/385)] [455/325 (335.9/239.7)]	
	Spindle Type		-	BELT	
	Spindle Nose		-	A2-8	
	C-axis Indexing		deg	0.001°	
FEED	Travel (X/Z)		mm(in)	255/680 (10″/26.8″)	255/1,100 (10″/43.3″)
	Rapid Traverse Rate (X/Z)		m/min (ipm)	30/30 (1,181/1,181)	
	Slide Type		-	ROLLER LM GUIDE	
TURRET	No. of Tools		ea	12 [24]	
	Tool Size	OD	mm(in)	□25 (□1″) [24T : □20 (□3/4″)]	
		ID	mm(in)	SINGLE Ø40 (Ø1 1/2″), DOUBLE Ø20 (Ø3/4″) [24T : SINGLE Ø40 (Ø1 1/2″), TRIPLE : Ø20 (Ø3/4″)]	
	Indexing Time		sec	0.15	
LIVE TOOL	Motor (Max/Cont.)		kW(HP)	5.5/3.7 (7.4/5) [4.2/2.8 (5.6/3.8)]	
	Milling Tool Speed (rpm)		r/min	6,000 [6,000]	
	Torque (Max/Cont.)		N·m (lbf·ft)	52.5/26.5 (38.7/19.5) [40.1/26.8 (29.6/19.8)]	
	Collet Size		mm(in)	Ø16 (Ø5/8″) : ER25	
	Type		-	BMT55	
TAIL STOCK	Taper		-	MT#4	
	Quill Dia.		mm(in)	-	Ø80 (Ø3.1″)
	Quill Travel		mm(in)	-	120 (4.7″)
	Travel		mm(in)	700 (27.6″)	1,100 (43.3″)
TANK CAPACITY	Coolant Tank		ℓ (gal)	200 (52.8)	230 (60.8)
	Lubricating Tank		ℓ (gal)	0.7 (0.18)	1.8 (0.48)
POWER SUPPLY	Electric Power Supply		kVA	18	
	Thickness of Power Cable		mm²	Over 16	
	Voltage		V/Hz	220/60 (200/50*)	
MACHINE	Floor Space (L×W)		mm(in)	3,255×1,900 (128.1″×74.8″)	3,715×2,000 (146.3″×78.7″)
	Height		mm(in)	1,730 (68.1″)	
	Weight		kg(lb)	4,300 (9,480)	5,100 (11,244)
NC	Controller		-	FANUC i Series - Smart Plus [SIEMENS 828D]	

Specifications are subject to change without notice for improvement.

SPECIFICATIONS

Specifications

[ ] : Option ● : SIEMENS

MODEL				SE2600Y	SE2600LY
CAPACITY	Swing Over the Bed		mm(in)	Ø630 (Ø24.8″)	
	Swing Over the Carriage		mm(in)	Ø630 (Ø24.8″)	
	Max. Turning Dia.		mm(in)	Ø380 (15″)	
	Max. Turning Length		mm(in)	653 (25.7″)	1,073 (42.2″)
	Bar Capacity		mm(in)	Ø81 (Ø3.2″)	
SPINDLE	Chuck Size		inch	10″	
	Spindle Bore		mm(in)	Ø91 (Ø3.6″)	
	Spindle Speed (rpm)		r/min	3,500 [2,500] [3,500]	
	Motor (Max/Cont.)		kW(HP)	18.5/11 (25/15) [26/18.5 (35/25)] [23.8/17 (31.9/22.8)]	
	Torque (Max/Cont.)		N·m (lbf·ft)	470.9/286.4 (347.3/211.2) [734/522 (541.4/385)] [455/325 (335.9/239.7)]	
	Spindle Type		-	BELT	
	Spindle Nose		-	A2-8	
	C-axis Indexing		deg	0.001°	
FEED	Travel (X/Y/Z)		mm(in)	255/110{±55}/680 (10″/4.3″/26.8″)	255/110{±55}/1,100 (10″/4.3″/43.3″)
	Rapid Traverse Rate (X/Y/Z)		m/min (ipm)	30/10/30 (1,181/394/1,181)	30/10/30/15 (1,181/394/1,181/591)
	Slide Type		-	ROLLER LM GUIDE	
TURRET	No. of Tools		ea	12 [24]	
	Tool Size	OD	mm(in)	□25 (□1″) [24T : □20 (□3/4″)]	
		ID	mm(in)	SINGLE Ø40 (Ø1 1/2″), DOUBLE Ø20 (Ø3/4″) [24T : SINGLE Ø40 (Ø1 1/2″), TRIPLE : Ø20 (Ø3/4″)]	
	Indexing Time		sec	0.15	
LIVE TOOL	Motor (Max/Cont.)		kW(HP)	5.5/3.7 (7.4/5) [4.2/2.8 (5.6/3.8)]	
	Milling Tool Speed (rpm)		r/min	6,000 [6,000]	
	Torque (Max/Cont.)		N·m (lbf·ft)	52.5/26.5 (38.7/19.5) [40.1/26.8 (29.6/19.8)]	
	Collet Size		mm(in)	Ø16 (Ø5/8″) : ER25	
	Type		-	BMT55	
TAIL STOCK	Taper		-	MT#4	
	Quill Dia.		mm(in)	-	Ø80 (Ø3.1″)
	Quill Travel		mm(in)	-	120 (4.7″)
	Travel		mm(in)	700 (27.6″)	1,100 (43.3″)
TANK CAPACITY	Coolant Tank		ℓ (gal)	200 (52.8)	230 (60.8)
	Lubricating Tank		ℓ (gal)	0.7 (0.18)	1.8 (0.48)
POWER SUPPLY	Electric Power Supply		kVA	22	
	Thickness of Power Cable		mm^2	Over 16	
	Voltage		V/Hz	220/60 (200/50*)	
MACHINE	Floor Space (L×W)		mm(in)	3,345×2,000 (131.7″×78.7″)	3,805×2,100 (149.8″×82.7″)
	Height		mm(in)	1,960 (77.2″)	
	Weight		kg(lb)	4,800 (10,582)	5,600 (12,346)
NC	Controller		-	FANUC i Series - Smart Plus [SIEMENS 828D]	

Specifications are subject to change without notice for improvement.

SPECIFICATIONS

Specifications

[ ] : Option ● : SIEMENS

MODEL				SE2600SY	SE2600LSY
CAPACITY	Swing Over the Bed		mm(in)	Ø630 (Ø24.8″)	
	Swing Over the Carriage		mm(in)	Ø630 (Ø24.8″)	
	Max. Turning Dia.		mm(in)	Ø380 (15″)	
	Max. Turning Length		mm(in)	653 (25.7″)	1,073 (42.2″)
	Bar Capacity		mm(in)	Main : Ø81 (Ø3.2″) Sub : Ø51 (Ø2″)	
SPINDLE	Chuck Size		inch	Main : 10″ Sub : 6″	
	Spindle Bore		mm(in)	Main : Ø91 (Ø3.6″) Sub : Ø60 (Ø2.4″)	
	Spindle Speed (rpm)		r/min	Main : 3,500 [2,500] [3,500] Sub : 4,500 [4,500]	
	Motor (Max/Cont.)		kW(HP)	Main : 18.5/11 (25/15) [26/18.5 (35/25)] [23.8/17 (31.9/22.8)] Sub : 7.5/5.5 (10/7.5) [7.4/4.9 (9.9/6.6)]	
	Torque (Max/Cont.)		N·m (lbf·ft)	Main : 470.9/286.4 (347.3/211.2) [734/522 (541.4/385)] [455/325 (335.9/239.7)] Sub : 85/47 (62.7/34.7) [63/42 (46.5/31)]	
	Spindle Type		-	BELT	
	Spindle Nose		-	Main : A2-8 Sub : A2-5	
	C-axis Indexing		deg	0.001°	
FEED	Travel (X/Y/Z/ZB)		mm(in)	255/110 (±55)/680/660 (10″/4.3″/26.8″/26″)	255/110 (±55)/1,100/1,080 (10″/4.3″/43.3″/42.5″)
	Rapid Traverse Rate (X/Y/Z/ZB)		m/min (ipm)	30/10/30/15 (1,181/394/1,181/591)	
	Slide Type		-	ROLLER LM GUIDE	
TURRET	No. of Tools		ea	12 [24]	
	Tool Size	OD	mm(in)	□25 (□1″) [24T : □20 (□3/4″)]	
		ID	mm(in)	SINGLE Ø40 (Ø1 1/2″), DOUBLE Ø20 (Ø3/4″) [24T : SINGLE Ø40 (Ø1 1/2″), TRIPLE : Ø20 (Ø3/4″)]	
	Indexing Time		sec	0.15	
LIVE TOOL	Motor (Max/Cont.)		kW(HP)	5.5/3.7 (7.4/5) [4.2/2.8 (5.6/3.8)]	
	Milling Tool Speed (rpm)		r/min	6,000 [6,000]	
	Torque (Max/Cont.)		N·m (lbf·ft)	52.5/26.5 (38.7/19.5) [40.1/26.8 (29.6/19.8)]	
	Collet Size		mm(in)	Ø16 (Ø5/8″) : ER25	
	Type		-	BMT55	
TAIL STOCK	Taper		-	-	
	Quill Dia.		mm(in)	-	
	Travel		mm(in)	-	
TANK CAPACITY	Coolant Tank		ℓ (gal)	200 (52.8)	230 (60.8)
	Lubricating Tank		ℓ (gal)	0.7 (0.18)	
POWER SUPPLY	Electric Power Supply		kVA	22	28
	Thickness of Power Cable		mm²	Over 16	Over 25
	Voltage		V/Hz	220/60 (200/50*)	
MACHINE	Floor Space (L×W)		mm(in)	3,345×2,000 (131.7″×78.7″)	3,805×2,100 (149.8″×82.7″)
	Height		mm(in)	1,960 (77.2″)	
	Weight		kg(lb)	5,000 (11,023)	5,800 (12,787)
NC	Controller		-	FANUC i Series - Smart Plus [SIEMENS 828D]	

Specifications are subject to change without notice for improvement.

CONTROLLER

FANUC i Series - Smart Plus

[ ] : Option

Controlled axis / Display / Accuracy Compensation	
Control axis	2 axis (X, Z) / 3 axis (X, Z, C) / 4 axis (X,Z,Y,C)
	5 axis (X, Z, B, C, A) / 6 axis (X, Z, Y, B, C, A)
	7 axis (X1/Z1, X2/Z2, B2, C1/C2)
Simultaneously controlled axis	2 axis [Max. 4 axis]
Designation of spindle axis	3 axis [Max. 4 axis]
Least setting Unit	X, Z, Y, B axis : 0.001 mm (0.0001 inch)
	C, A axis : 0.001 deg
Least input increment	X, Z, Y, B axis : 0.001 mm (0.0001 inch)
	C, A axis : 0.001 deg
Inch / Metric conversion	G20 / G21
High response vector control	
Interlock	All axis / Each axis
Machine lock	All axis
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	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 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 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 axis)	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	
Look-ahead Block	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.

CONTROLLER

SIEMENS 828D

[ ] : Option ☆ Needed technical consultation

Controlled axis / Display / Accuracy Compensation	
Control axis	2 axis (X, Z) - Std.
	3 axis (X, Z, C) - Mill
	4 axis (X, Z, Y, C) - Y
	5 axis (X, Z, B, C, A) - MS
	6 axis (X, Z, Y, B, C, A) - SY
Simultaneously controlled axis	Max. 4 axis
Least setting Unit	X, Z, Y, B axis : 0.001 mm (0.0001 inch)
	C, A axis : 1 deg [0.001] deg
Least input increment	X, Z, Y, B axis : 0.001 mm (0.0001 inch)
	C, A axis : 1 deg [0.001] deg
Inch / Metric changeover	G70 (inch) / G71 (metric)
Interlock	All axis / Each axis
Backlash compensation	
Pitch error compensation	Leadscrew pitch errror compensation
LCD / MDI	15 inch color LCD (With Touch panel)
Keyboard	QWERTY full keyboard
Stored stroke check	Over travel
Operation	
Automatic operation	
MDI operation	
Program restart	
Program check function	Dry run / Program check / Machine lock
Single block	
Block search	Block search
Reposition	
Working area limit	Working area limitations
Interpolation functions	
Positioning	G00
Linear interpolation	G01
Circular interpolation	Circular interpolation CW (G02)
	Circular interpolation CCW (G03)
Exact position stop	Single block exact stop (G09)
	Exact stop G60 (G601, G602, G603)
Dwell	Dwell (G04)
Reference position return	Return to reference point
	Return to 2nd reference point
Helical interpolation	
Thread synchronous cutting	
Thread cutting retract	
Spline interpolation	Non-uniform rational B splines
Feed function / Acc. & Dec. control	
Manual feed	Rapid traverse
	Jog
	Manual handle
	Reference position return
Cutting feed command	Direct input F code
Feedrate override	0 ~ 200% (10% Unit)
Rapid traverse override	1%, 25%, 50%, 100%
Feed per minute	G94
Feed per revolution	G95
Look-ahead block	1 block
Program input	
ISO support	G291(ISO)/G290 (SIEMENS)
	(ISO G Code system-A)
Optional block skip	2
Program stop / end	M00, M01 / M02, M30
Maximum command unit	± 999,999.999 mm, ± 99,999.9999 inch
Plane selection	X-Y : G17, X-Z : G18, Y-Z : G19
Workpiece coordinate system	G54 ~ G57, G505~G549
	G500 (Basic frame - setable zero offset)
	G53 (Work offset non modal)
	G153 (basic frame non modal)
Sub program call	11 folds nested
G code preventing buffering	STOPRE
Turning cycle	Turning programing (Clycle 93 ,94, 95, 97)
User cycle	
3D simulation	
Real time simulation	
Shop Turn	Machining step programming for turning

Auxiliary function / Spindle speed function	
Auxiliary function	M Code 4 digit
Spindle speed function	S Code 5 digit
Spindle override	0% ~ 150% (10% Unit)
Spindle orientation	SPOS
Rigid tapping	
Autometic mode interchange	Spindle / Axis mode
Constant surface speed control	G96, G97
Spindle speed limitation	LIMS
Tool function / Tool compensation	
Tool function	Tool number & Tool name
	Tool : T + Offset : D
Tool life management	
Tools in tool list	128 ea : Std.
	256 ea : Mill
	768 ea : Y, MS, SY
Cutting Edges in tool list	256 ea : Std.
	512 ea : Mill
	1,536 ea : Y, MS, SY
Tool nose radius compensation	ISO (G40, G41, G42)
Geometry / Wear compensation	
Measurement of tool length	
Tool management function	
Editing function	
Part program storage size	3MB - Std.
	5MB - Mill
	10MB - Y, MS, SY
No. of registerable programs	750 ea
External Strorage devices	Local network, Server, USB, Flash drive
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 interface (ONLY 10.4")
	USB memory interface
	Embedded Ethernet memory interface
Screenshot	
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.
Multi language display	Support 9 languages
	Chinese (Simplified/Traditional), English, French, German, Italian, Korean, Portuguese, Spanish
	[☆ Support 22 languages : Inquiry need]
LCD Screen Saver	Screen saver & Motion sensing
Function for machine type	
Cs contour control (C & A axis)	Mill, MS, Y, SY model
Polar coordinate interpolation	Mill, MS, Y, SY model
Cylindrical interpolation	Mill, MS, Y, SY model
Canned cycle for drilling	Mill, MS, Y, SY model
[Polygon turning (CP-Basic)]	Mill, MS, Y, SY model
[Hobbing / Skybing (CP-Comfort)]	Mill, MS, Y, SY model
Spindle synchronous control	MS, SY model
Servo tailstock function	MS, SY model

Option	
Additional optional block skip	10
Contour handwheel	

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WIA MACHINE TOOLS

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