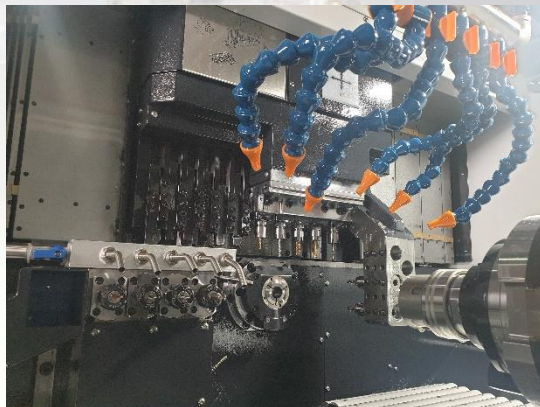


wellturn 威尔特

PRECISION

CNC Automation
Lathe



Major development and production achievements

CNC SWISS TURN-07/12/20/26/32/38/42/52-3axis,4axis,5axis,6axis

	2009 ~2016 wellturn-syma	2017 ~2021 wellturn-shute	2022 ~current
07/12/16			
20	  	 	
26			
32/38			
42/52			

ST-205/265/266(Ⅰ,Ⅱ)

CNC AUTOMATION LATHE(SWISS TURN)

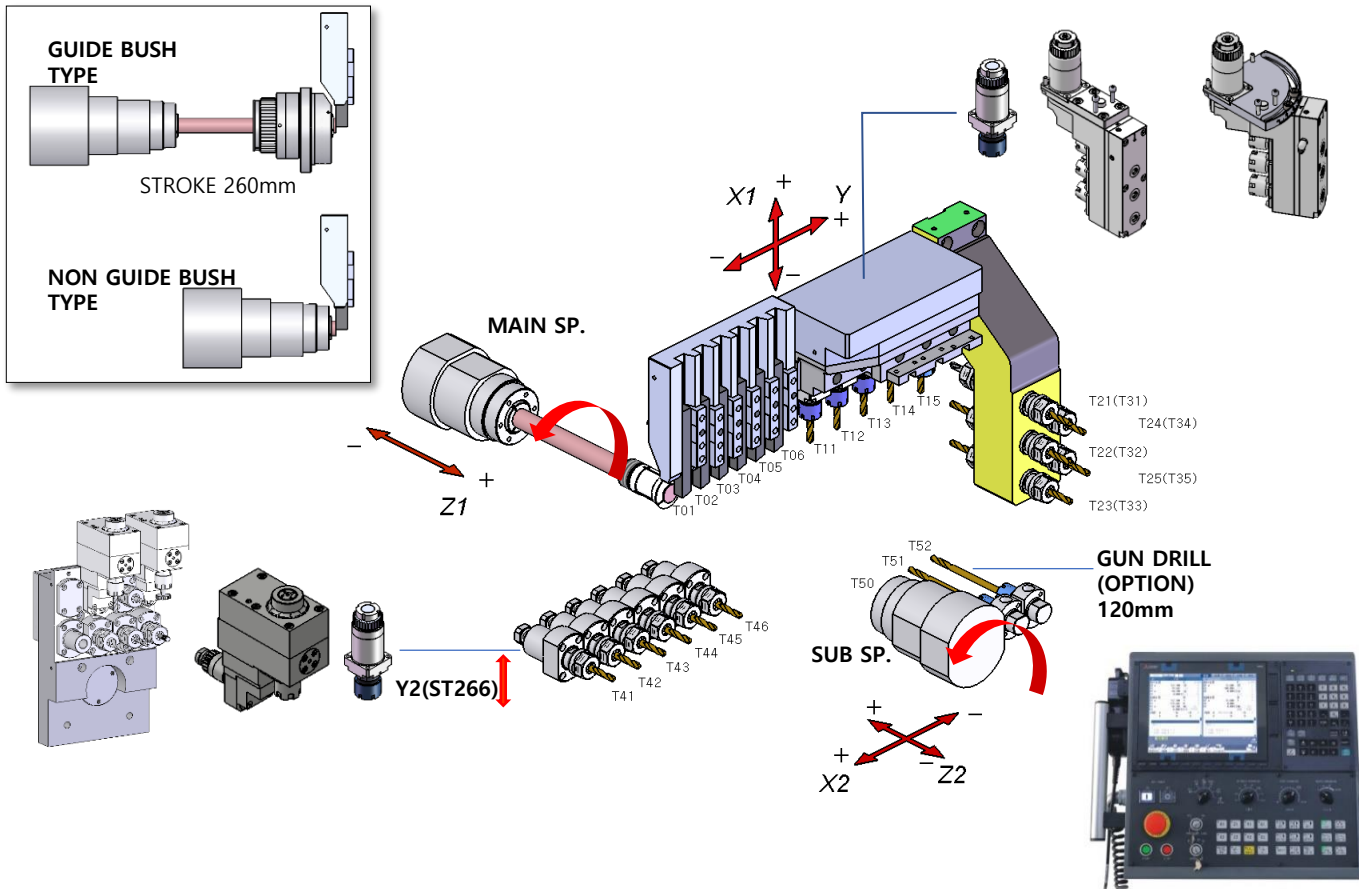


MAIN FEATURES



- ◆ Adopting a high-rigidity guide bush structure and a non-guide bush combined main spindle, specialized for producing multiple types of products.
- ◆ Enhanced milling capabilities with a 5-axis cross standard adoption.
- ◆ Improved production reliability and stability with a high-strength bed structure and built-in main & sub spindle.
- ◆ Enhanced convenience of operation with a wide processing space.

TOOL LAYOUT



MACHINE SPECIFICATION

ITEMS		ST-205	ST-265	ST-266
NC SYSTEM		MITSUBISHI M80	MITSUBISHI M80	MITSUBISHI M80
MAX. TURNING BAR DIA.		Φ22mm(Φ24mm)	Φ26mm(Φ30mm)	Φ26mm(Φ30mm)
MAX. TURNING LENGTH(ONE-CHUCKING)	STATIONARY G/B	-	-	-
	ROTARY G/B	260mm	260mm	260mm
	NON-G/B	50mm	65mm	65mm
OD TURNING	TOOL NO.	6EA (□12mm)	1EA (□16mm)+5EA(□12mm)	1EA (□16mm)+5EA(□12mm)
FRONT BORE/DRILL	TOOL NO.	5EA (ER16M)	5EA (ER16M)	5EA (ER16M)
	MAX. DRILLING	Φ10mm	Φ10mm	Φ10mm
	MAX. TAPPING	M8xP1.25	M8xP1.25	M8xP1.25
CROSS DRILL	TOOL NO.	5EA(ER16)	5EA(ER16)	5EA(ER16)
	MAX. DRILLING	Φ8mm	Φ8mm	Φ8mm
	MAX. TAPPING	M6xP1.0	M6xP1.0	M6xP1.0
BACKEND TOOL	TOOL NO.	4 ~ 6EA(ER16)	4 ~ 6EA(ER16)	4 ~ 6EA(ER16)
	DRIVEN TOOL NO.	2 ~ 4EA	2 ~ 4EA	2 ~ 4EA
MAIN SP./SUB SP. POSITIONING		C1/C2 CONT.+1/1000"	C1/C2 CONT.+1/1000"	C1/C2 CONT.+1/1000"
MAIN SP. MAX. SPEED		8,000RPM	8,000RPM	8,000RPM
MAIN SP. MOTOR POWER		2.2kw/3.7kw	2.2kw/3.7kw	2.2kw/3.7kw
SUB SP. MAX. SPEED		8,000RPM	8,000RPM	8,000RPM
SUB SP. MOTOR POWER		1.5kw/2.2kw	1.5kw/2.2kw	1.5kw/2.2kw
RAPID TRAVERSE		30m/min(X1 : 24m/min)	30m/min(X1 : 24m/min)	30m/min(X1 : 24m/min)
CROSS DRILL MAX. SPEED		max.6,500RPM	max.6,500RPM	max.6,500RPM
CROSS DRILL MOTOR POWER		1.0kw	1.0kw	1.0kw
BACKEND TOOL MAX. SPEED		max.6,000RPM	max.6,000RPM	max.6,000RPM
BACKEND TOOL MOTOR POWER		1.0kw	1.0kw	1.0kw
COOLANT TANK CAPACITY		230Liter	230Liter	230Liter
M/C SIZE(LxWxH)		2,580x1,350x1,820mm	2,580x1,350x1,820mm	2,580x1,350x1,820mm
M/C WEIGHT		2,850kg	2,850kg	2,900kg
ELECTRIC POWER CONSUMPTION		11kVA	11kVA	12kVA

MACHINE STANDARD

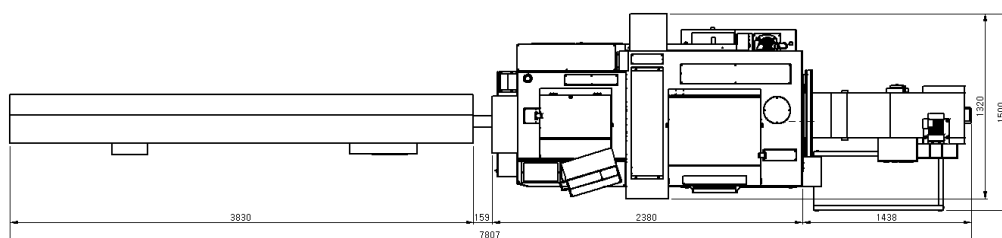
- SYNCHRONOUS ROTARY GUIDE BUSH UNIT
- ALL AXIS RIGID TAPPING FUNCTION
- M CODE CUT OFF DETECTOR DEVICE
- PARTS CONVEYOR
- MPG(HANDLE WHEEL)
- PARTS EJECT AND SUB AIR BLOW UNIT
- WORK LIGHT AND PATROL LIGHT
- BAR FEEDER INTERFACE
- SET UP TOOLS

MACHINE OPTION

- BAR FEEDER
- STATIONARY GUIDE BUSH
- CHIP CONVEYOR
- SUB FRONT ROTARY TOOL(2 AXIS)/BACKEND ROTARY TOOL(2~4 AXIS)
- LONG PART DISCHARGING UNIT
- M CODE OIL BLOW
- HIGH PRESSURE COOLANT UNIT
- OIL MIST COLLECTER

*THK LM/BALL SCREW/NSK/FAG BEARINGS/SMC SOLENOID

ST205/265/266 INSTALL AREA(Unit : mm)

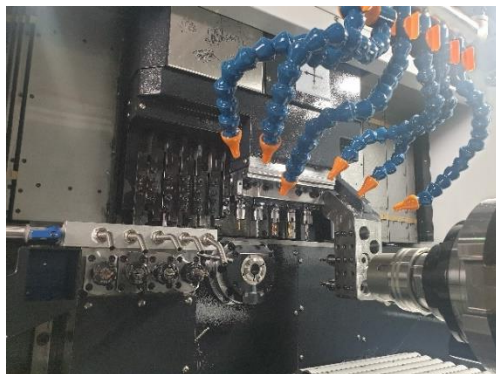


ST-325/385/386(I , II)

CNC AUTOMATION LATHE(SWISS TURN)

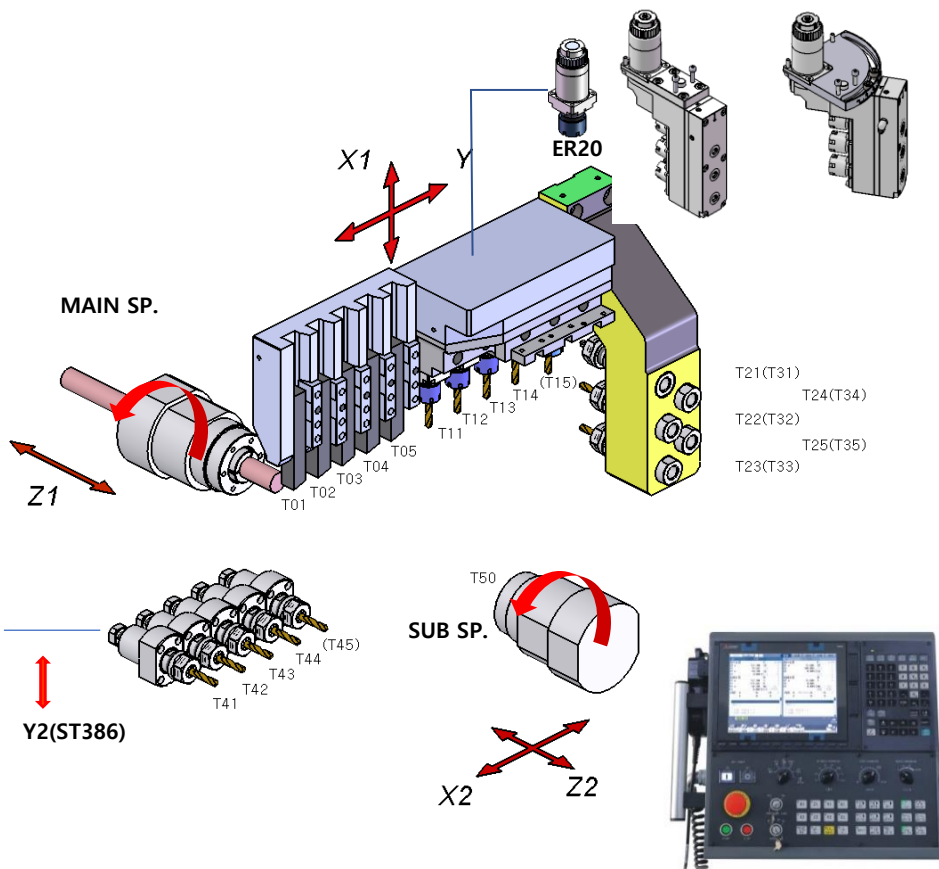
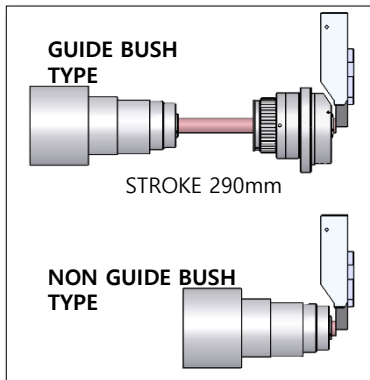


MAIN FEATURES



- ◆ Adopting a high-rigidity guide bush structure and a non-guide bush combined main spindle, specialized for producing multiple types of products.
- ◆ Enhanced milling capabilities with a 5-axis cross standard adoption.
- ◆ Improved production reliability and stability with a high-strength bed structure and built-in main & sub spindle.
- ◆ Enhanced convenience of operation with a wide processing space.

TOOL LAYOUT



MACHINE SPECIFICATION

ITEMS		ST-325	ST-385	ST-386
NC SYSTEM		MITSUBISHI M80	MITSUBISHI M80	MITSUBISHI M80
MAX. TURNING BAR DIA.		Φ32mm(Φ34mm)	Φ38mm(Φ42mm)	Φ38mm(Φ42mm)
MAX. TURNING LENGTH(ONE-CHUCKING)	STATIONARY G/B	-	-	-
	ROTARY G/B	290mm	290mm	290mm
	NON-G/B	70mm	70mm	70mm
OD TURNING	TOOL NO.	5EA (□16mm)	5EA (□16mm)	5EA (□16mm)
FRONT BORE/DRILL	TOOL NO.	5EA (ER16M)	5EA (ER20)	5EA (ER20)
	MAX. DRILLING	Φ12mm	Φ12mm	Φ12mm
	MAX. TAPPING	M10xP1.5	M10xP1.5	M10xP1.5
CROSS DRILL	TOOL NO.	4EA(ER16)+1EA(ER20)	4EA(ER16)+1EA(ER20)	4EA(ER16)+1EA(ER20)
	MAX. DRILLING	Φ8mm	Φ8mm	Φ8mm
	MAX. TAPPING	M6xP1.0	M6xP1.0	M6xP1.0
BACKEND TOOL	TOOL NO.	4 ~ 5EA(ER16)	4 ~ 5EA(ER16)	8EA(ER16)
	DRIVEN TOOL NO.	2 ~ 4EA	2 ~ 4EA	4EA
MAIN SP./SUB SP. POSITIONING		C1/C2 CONT.+1/1000"	C1/C2 CONT.+1/1000"	C1/C2 CONT.+1/1000"
MAIN SP. MAX. SPEED		7,000RPM	6,500RPM	6,500RPM
MAIN SP. MOTOR POWER		2.2kw/5.5kw	5.5kw/7.5kw	5.5kw/7.5kw
SUB SP. MAX. SPEED		7,000RPM	6,500RPM	6,500RPM
SUB SP. MOTOR POWER		2.2kw/3.7kw	2.2kw/3.7kw	2.2kw/3.7kw
RAPID TRAVERSE		30m/min(X1 : 24m/min)	30m/min(X1 : 24m/min)	30m/min(X1 : 24m/min)
CROSS DRILL MAX. SPEED		max.6,500RPM	max.6,500RPM	max.6,500RPM
CROSS DRILL MOTOR POWER		1.0kw	1.0kw	1.0kw
BACKEND TOOL MAX. SPEED		max.6,000RPM	max.6,000RPM	max.6,000RPM
BACKEND TOOL MOTOR POWER		1.0kw	1.0kw	1.0kw
COOLANT TANK CAPACITY		230Liter	230Liter	230Liter
M/C SIZE(LxWxH)		2,650x1,550x1,850mm	2,650x1,550x1,850mm	2,650x1,550x1,850mm
M/C WEIGHT		3,000kg	3,200kg	3,250kg
ELECTRIC POWER CONSUMPTION		12kVA	14kVA	15kVA

MACHINE STANDARD

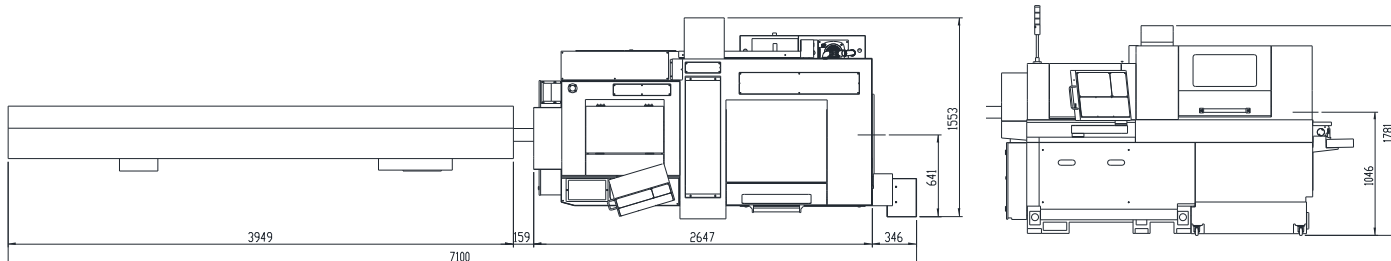
- SYNCHRONOUS ROTARY GUIDE BUSH UNIT
- ALL AXIS RIGID TAPPING FUNCTION
- M CODE CUT OFF DETECTOR DEVICE
- PARTS CONVEYOR
- MPG(HANDLE WHEEL)
- PARTS EJECT AND SUB AIR BLOW UNIT
- WORK LIGHT AND PATROL LIGHT
- BAR FEEDER INTERFACE
- SET UP TOOLS

MACHINE OPTION

- BAR FEEDER
- STATIONARY GUIDE BUSH
- CHIP CONVEYOR
- SUB FRONT ROTARY TOOL(2 AXIS)/BACKEND ROTARY TOOL(2~4 AXIS)
- LONG PART DISCHARGING UNIT
- M CODE OIL BLOW
- HIGH PRESSURE COOLANT UNIT
- OIL MIST COLLECTER

*THK LM/BALL SCREW/NSK/FAG BEARINGS/SMC SOLENOID

ST325/385/386 INSTALL AREA(Unit : mm)



ST-465/525(Ⅰ,Ⅱ)

CNC AUTOMATION LATHE(SWISS TURN)

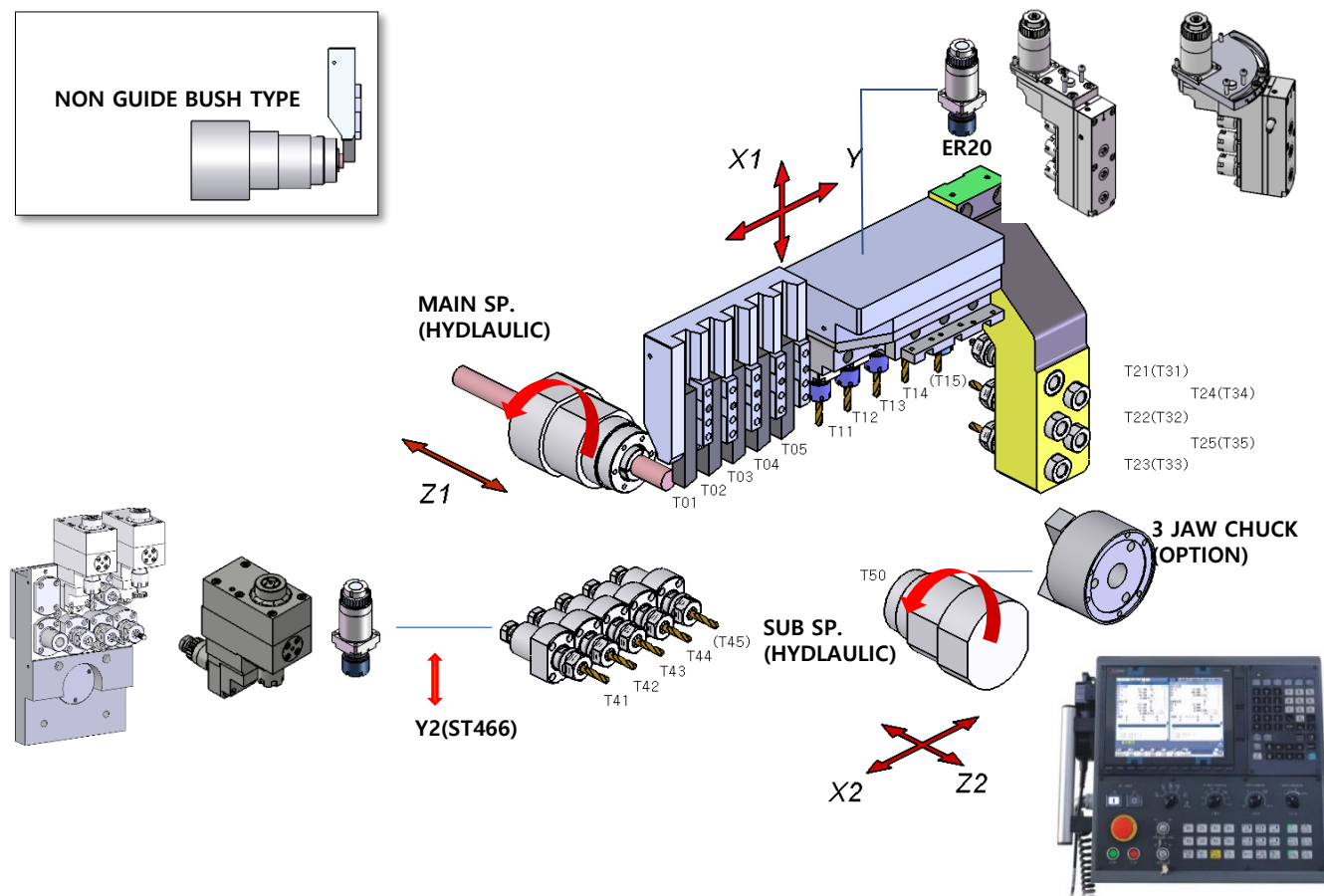
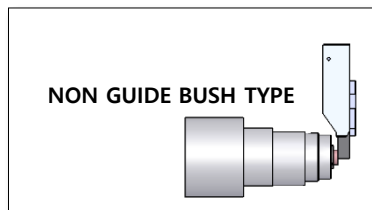


MAIN FEATURES



- ◆ Adopting a hydraulic chucking spindle structure suitable for large workpieces and a twin spindle turning center for high productivity.
- ◆ Enhancing compound machining capabilities with 4-axis cross milling function.
- ◆ Wide chucking range enabled by hydraulic 3-jaw chuck on the sub-spindle.
- ◆ Enhanced convenience in machining with wide working space.

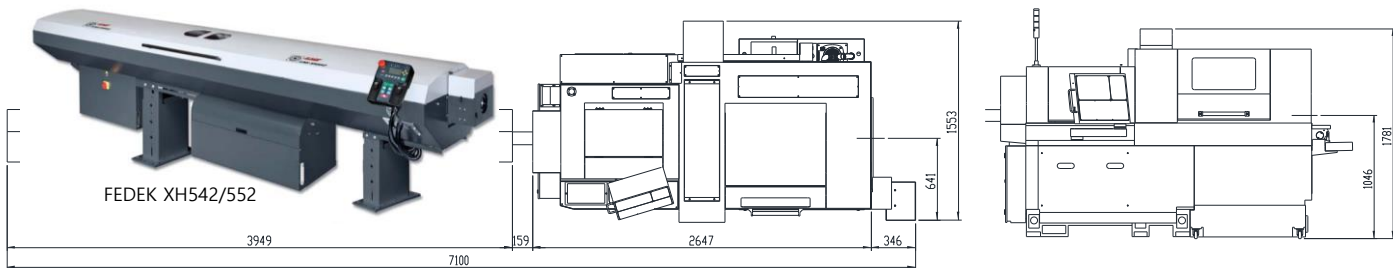
TOOL LAYOUT



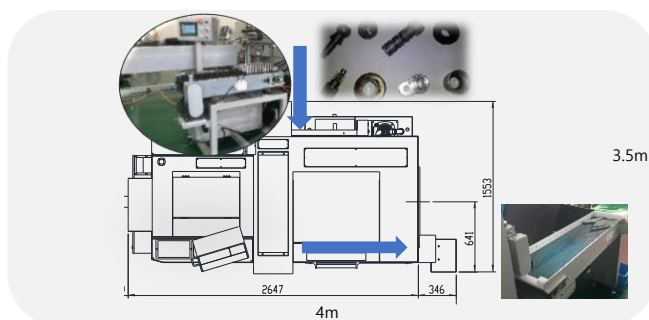
MACHINE SPECIFICATION

ITEMS		ST-465	ST-525	ST-466
NC SYSTEM		MITSUBISHI M80/FANUC0iTF	MITSUBISHI M80/FANUC0iTF	MITSUBISHI M80/FANUC0iTF
MAX. TURNING BAR DIA.		Φ46mm(Φ46mm)	Φ52mm(Φ52mm)	Φ46mm(Φ46mm)
MAX. TURNING LENGTH(ONE-CHUCKING)	STATIONARY G/B	-	-	-
	ROTARY G/B	-	-	-
	NON-G/B	100mm	100mm	100mm
OD TURNING	TOOL NO.	5EA (2-□20mm,3-□16mm)	5EA (2-□20mm,3-□16mm)	5EA (2-□20mm,3-□16mm)
FRONT BORE/DRILL	TOOL NO.	5EA (ER20)	5EA (ER20)	5EA (ER20)
	MAX. DRILLING	Φ15mm	Φ15mm	Φ15mm
	MAX. TAPPING	M12xP1.5	M12xP1.5	M12xP1.5
CROSS DRILL	TOOL NO.	4EA(ER20)	4EA(ER20)	4EA(ER20)
	MAX. DRILLING	Φ10mm	Φ10mm	Φ10mm
	MAX. TAPPING	M8xP1.0	M8xP1.0	M8xP1.0
BACKEND TOOL	TOOL NO.	4 ~ 5EA(ER20)	4 ~ 5EA(ER20)	4 ~ 5EA(ER20)
	DRIVEN TOOL NO.	2 ~ 4EA	2 ~ 4EA	2 ~ 4EA
MAIN SP./SUB SP. POSITIONING		C1/C2 CONT.+1/1000°	C1/C2 CONT.+1/1000°	C1/C2 CONT.+1/1000°
MAIN SP. MAX. SPEED		4,500RPM	4,500RPM	4,500RPM
MAIN SP. MOTOR POWER		7.5kw/35.4Nm	7.5kw/35.4Nm	7.5kw/35.4Nm
SUB SP. MAX. SPEED		5,000RPM	4,500RPM	5,000RPM
SUB SP. MOTOR POWER		7.5kw/31.8Nm(COLLET CHUCK)	7.5kw/35.4Nm(3-JAW CHUCK)	7.5kw/31.8Nm(COLLET CHUCK)
RAPID TRAVERSE		28m/min(X1 : 24m/min)	28m/min(X1 : 24m/min)	28m/min(X1 : 24m/min)
CROSS DRILL MAX. SPEED		max.6,500RPM	max.6,500RPM	max.6,500RPM
CROSS DRILL MOTOR POWER		1.0kw	1.0kw	1.0kw
BACKEND TOOL MAX. SPEED		max.6,000RPM	max.6,000RPM	max.6,000RPM
BACKEND TOOL MOTOR POWER		1.0kw	1.0kw	1.0kw
COOLANT TANK CAPACITY		230Liter	230Liter	230Liter
M/C SIZE(LxWxH)		2,750x1,650x1,850mm	2,750x1,650x1,850mm	2,750x1,650x1,850mm
M/C WEIGHT		3,300kg	3,350kg	3,350kg
ELECTRIC POWER CONSUMPTION		15kVA	15kVA	15kVA

ST465/525/466 INSTALL AREA(Unit : mm)



AUTOMATIC LOADER/UNLOADER



WELLTURN

ST-203/263/323(I ,II)

CNC AUTOMATION LATHE(SWISS TURN)
-HIGH RIGIDITY SERIES

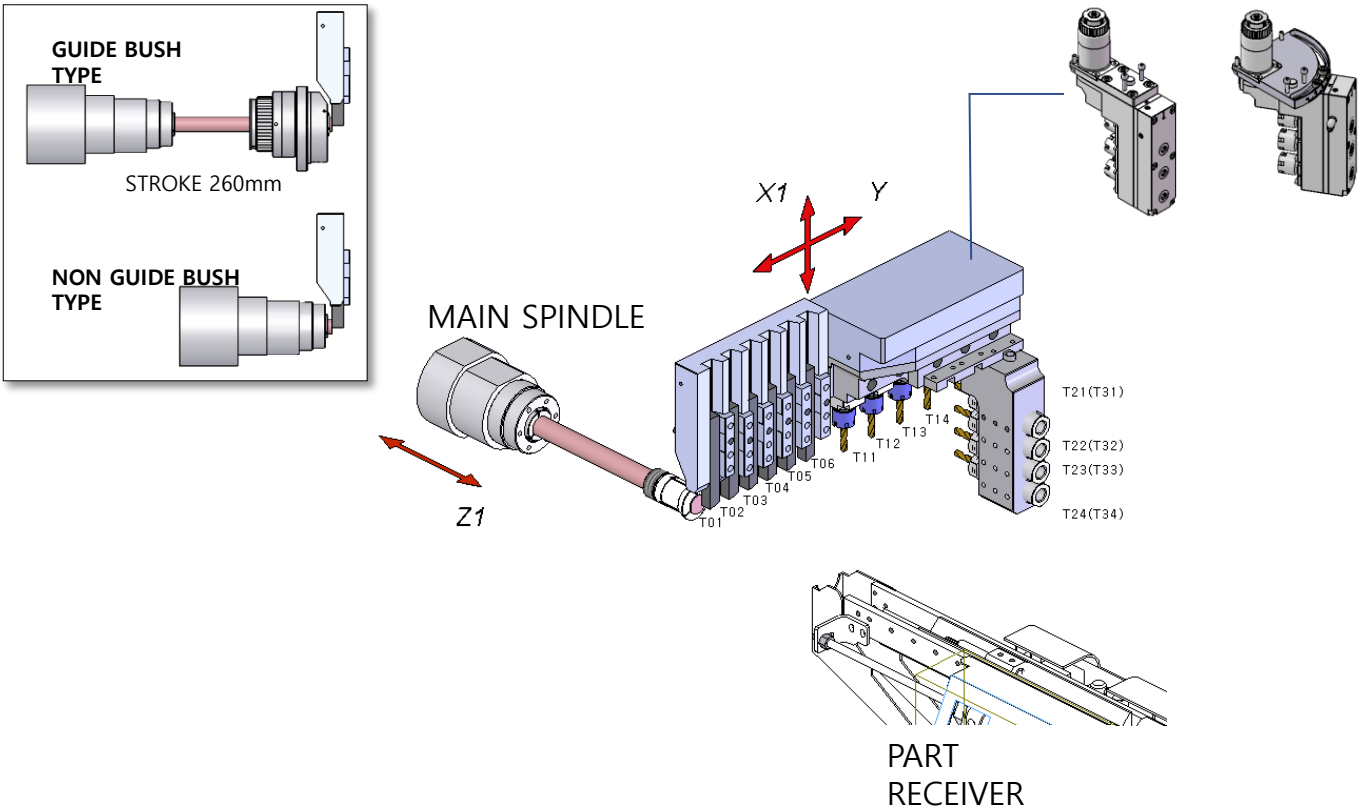


MAIN FEATURES



- ◆ Suitable for products that do not require backside machining and has a high cost-performance ratio.
- ◆ Specialized for mass production of various types with high rigidity guide bush structure and dual-bearing rotary guide bush unit.
- ◆ Ensures reliability and stable operation.
- ◆ Enhances work convenience with a wide machining space.

TOOL LAYOUT



MACHINE SPECIFICATION

ITEMS		ST-203	ST-263	ST-323
NC SYSTEM		MITSUBISHI M80	MITSUBISHI M80	MITSUBISHI M80
MAX. TURNING BAR DIA.		Φ20mm	Φ26mm	Φ32mm(Φ36)
MAX. TURNING LENGTH(ONE-CHUCKING)	STATIONARY G/B	270mm	270mm	-
	ROTARY G/B	240mm	240mm	240mm
	NON-G/B	50mm	65mm	80mm
OD TURNING		TOOL NO.	6EA (□12mm)	6EA (□16mm)
FRONT BORED/DRILL	TOOL NO.	5EA (ER16M)	5EA (ER16M)	4EA (ER16M)
	MAX. DRILLING	Φ10mm	Φ10mm	Φ10mm
	MAX. TAPPING	M8xP1.25	M8xP1.25	M8xP1.25
CROSS DRILL	TOOL NO.	2EA (ER11)/3EA(ER16)	2EA (ER11)/3EA(ER16)	5EA (ER16)
	MAX. DRILLING	Φ8mm	Φ8mm	Φ8mm
	MAX. TAPPING	M6xP1.0	M6xP1.0	M6xP1.0
BACKEND TOOL	TOOL NO.	-	-	-
	DRIVEN TOOL NO.	-	-	-
MAIN SP./SUB SP. POSITIONING		C1/C2 CONT.+1/1000"	C1/C2 CONT.+1/1000"	C1/C2 CONT.+1/1000"
MAIN SP. MAX. SPEED		10,000RPM	10,000RPM	8,000RPM
MAIN SP. MOTOR POWER		2.2kw/3.7kw	2.2kw/3.7kw	5.5kw
SUB SP. MAX. SPEED		-	-	-
SUB SP. MOTOR POWER		-	-	-
RAPID TRAVERSE		30m/min(X1 : 24m/min)	30m/min(X1 : 24m/min)	30m/min(X1 : 24m/min)
CROSS DRILL MAX. SPEED		max.6,500RPM	max.6,500RPM	max.6,500RPM
CROSS DRILL MOTOR POWER		1.0kw	1.0kw	1.0kw
BACKEND TOOL MAX. SPEED		-	-	-
BACKEND TOOL MOTOR POWER		-	-	-
COOLANT TANK CAPACITY		170Liter	170Liter	170Liter
M/C SIZE(LxWxH)		2,170x1,350x1,820mm	2,170x1,350x1,820mm	2,270x1,350x1,820mm
M/C WEIGHT		1,800kg	1,800kg	2,100kg
ELECTRIC POWER CONSUMPTION		6kVA	6kVA	8kVA

MACHINE STANDARD

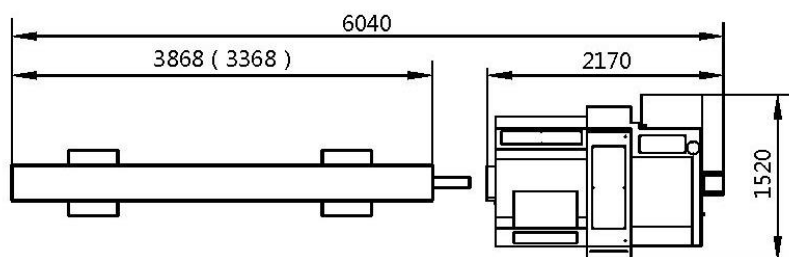
- SYNCHRONOUS ROTARY GUIDE BUSH UNIT
- ALL AXIS RIGID TAPPING FUNCTION
- M CODE CUT OFF DETECTOR DEVICE
- MPG(HANDLE WHEEL)
- PARTS EJECT
- WORK LIGHT AND PATROL LIGHT
- BAR FEEDER INTERFACE
- SET UP TOOLS

MACHINE OPTION

- BAR FEEDER
- STATIONARY GUIDE BUSH
- CHIP CONVEYOR
- LONG PART DISCHARGING UNIT
- M CODE OIL BLOW

*THK LM/BALL SCREW/NSK/FAG BEARINGS/SMC SOLENOID

ST203/263/323 INSTALL AREA(Unit : mm)



SO-07/105/125

CNC AUTOMATION LATHE(SWISS TURN) -ECONOMIC SERIES

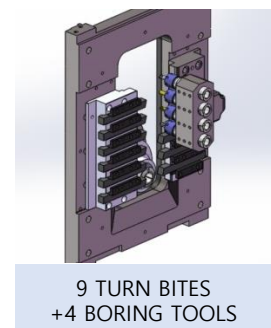
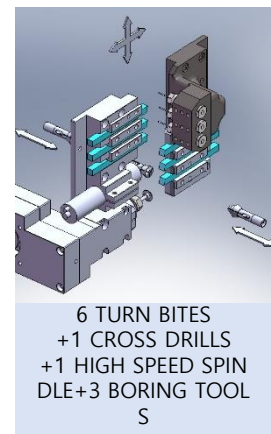
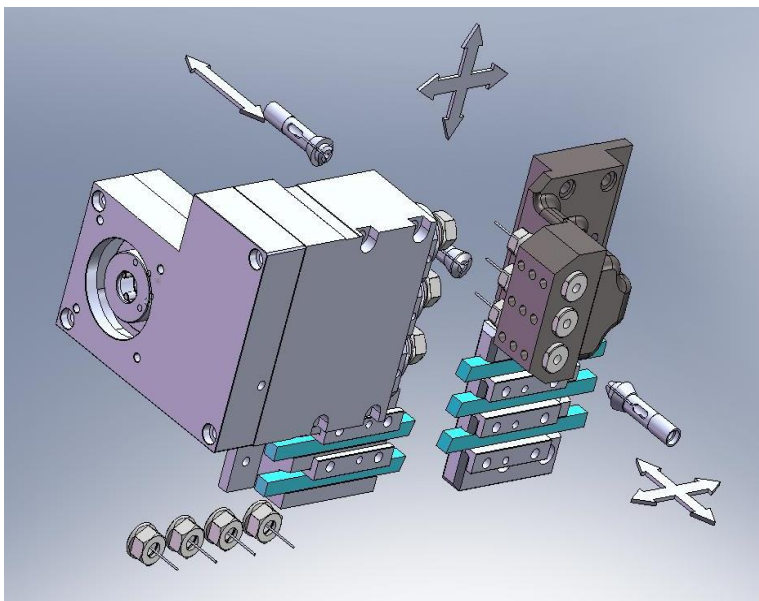


MAIN FEATURES



- ◆ Suitable for small workpieces and ensures high productivity.
- ◆ Adopts direct guide bush structure and dual-bearing rotary guide bush unit for advantages in producing various types of products.
- ◆ High-precision guide bush ensures high accuracy. Built-in motor spindle and sleeve ensure process reliability and stability.
- ◆ High productivity due to inclined tool arrangement.

TOOL LAYOUT



MACHINE SPECIFICATION

ITEMS		SO-07	SO-105/125
NC SYSTEM		MITSUBISHI M80	MITSUBISHI M80
MAX. TURNING BAR DIA.		Φ7mm	Φ12mm
MAX. TURNING LENGTH(ONE-CHUCKING)	STATIONARY G/B	160mm	180mm
	ROTARY G/B	80mm	80mm
	NON-G/B	40mm	40mm
OD TURNING	TOOL NO.	5EA (□12mm)	5EA (□12mm)
FRONT BORE/DRILL	TOOL NO.	4EA (ER16M)	4EA (ER16M)
	MAX. DRILLING	Φ8mm	Φ8mm
	MAX. TAPPING	M5xP0.75	M6xP1.0
CROSS DRILL	TOOL NO.	4EA (ER16:2EA, ER11:2EA)	4EA (ER16:2EA, ER11:2EA)
	MAX. DRILLING	Φ6mm	Φ6mm
	MAX. TAPPING	M4xP0.5	M4xP0.75
BACKEND TOOL	TOOL NO.	4EA(ER11)	4EA(ER11)
	DRIVEN TOOL NO.	OPTION	OPTION
MAIN SP./SUB SP. POSITIONING		C1/C2 CONT.+1/1000°	C1/C2 CONT.+1/1000°
MAIN SP. MAX. SPEED		12,000RPM/15,000RPM	10,000RPM
MAIN SP. MOTOR POWER		2.2kw	2.2kw
SUB SP. MAX. SPEED		12,000RPM/15,000RPM	10,000RPM
SUB SP. MOTOR POWER		2.2kw	2.2kw
RAPID TRAVERSE		32m/min(X1 : 24m/min)	32m/min(X1 : 24m/min)
CROSS DRILL MAX. SPEED		max.6,500RPM	max.6,500RPM
CROSS DRILL MOTOR POWER		0.75kw	0.75kw
COOLANT TANK CAPACITY		120Liter	120Liter
M/C SIZE(LxWxH)		1,960x1,000x1,740mm	1,960x1,000x1,740mm
M/C WEIGHT		1,700kg	1,800kg
ELECTRIC POWER CONSUMPTION		12kVA	12kVA

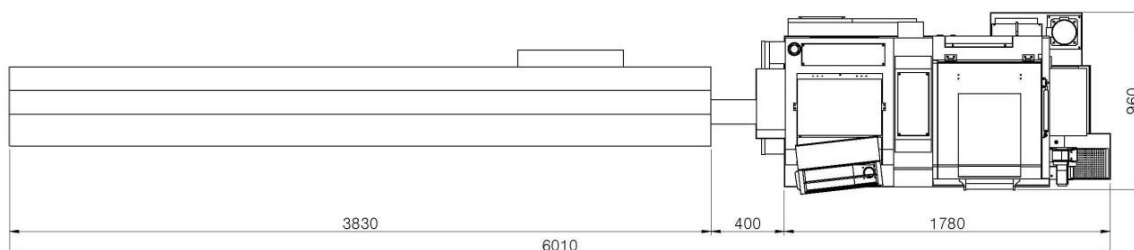
MACHINE STANDARD

- SYNCHRONOUS ROTARY GUIDE BUSH UNIT
- ALL AXIS RIGID TAPPING FUNCTION
- PARTS CONVEYOR
- MPG(HANDLE WHEEL)
- PARTS EJECT AND SUB AIR BLOW UNIT
- WORK LIGHT AND PATROL LIGHT
- BAR FEEDER INTERFACE
- SET UP TOOLS

MACHINE OPTION

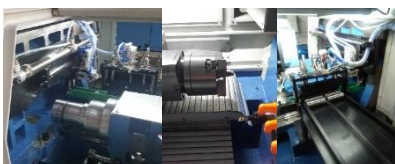
- BAR FEEDER
- STATIONARY GUIDE BUSH
- NON GUIDE BUSH DEVICE UNIT
- CHIP CONVEYOR
- 5 AXIS CROSS DRILL
- LONG PART DISCHARGING UNIT
- M CODE OIL BLOW

SO07/105 /125 INSTALL AREA(Unit : mm)

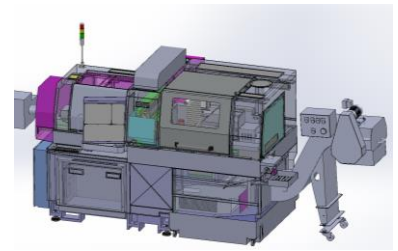


Major delivery performance

- 창원 LG전자 - electric
- W.S 샤프트(경기도) - roller
- 창성공업(인천) - valve,nipple
- 이연테크(경기도 화성) - standard
- 두원중공업(중국 강소성) - motor shaft
- 선일Dyfas(중국 강소성) - mobile shaft
- 강소성 지이엠(두산모트롤 협력업체)
- 기타



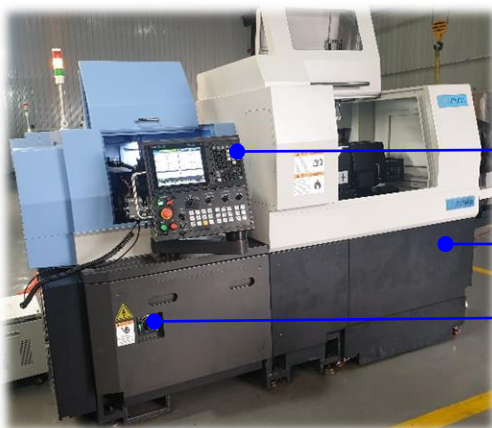
ST series



- The rational structural design of the entire equipment makes it suitable and convenient for mass production.
- The swift circulation of cutting oil makes cutting oil management convenient and minimizes production costs.
- The cable duct is separated from the main body, making maintenance convenient and not affecting leakage.



- The arrangement of the operation buttons is worker-friendly, and the movement of the panel is smooth and stable without shaking, ensuring stability.
- The main power switch is located on the front, making the wiring short and convenient.
- The entire inner and outer parts of the main processing components are made of sheet metal material to minimize heat generation and deformation.



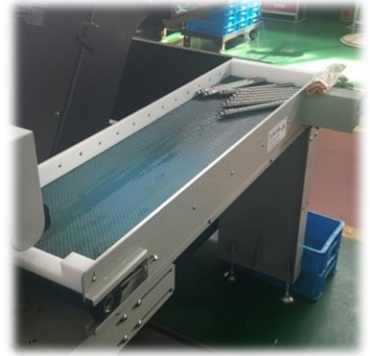
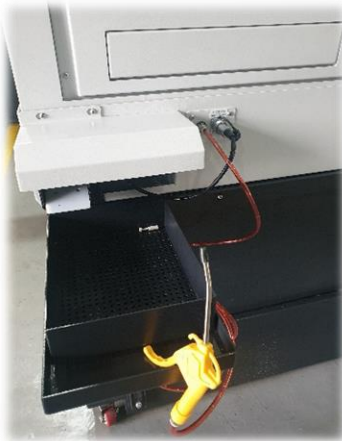
OPERATION PANEL

SHEET METAL GUARD

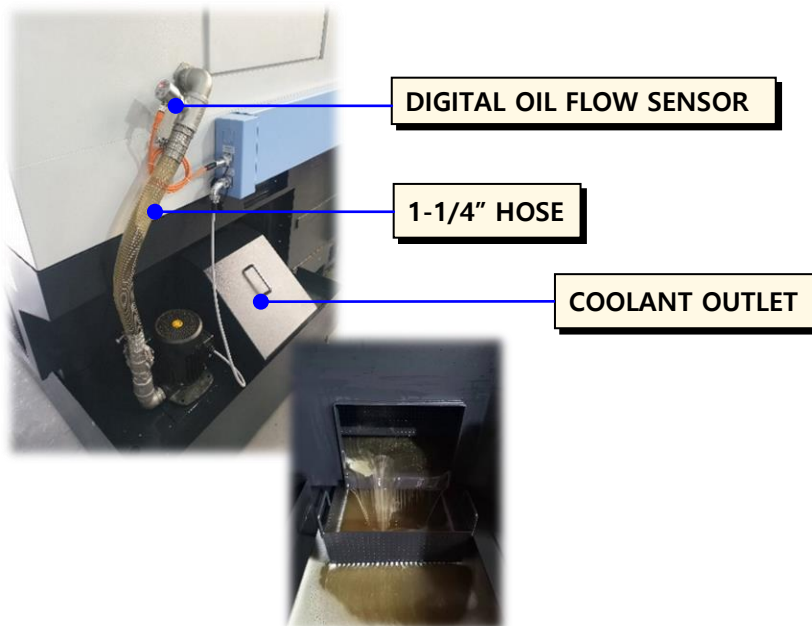
MAIN S/W

ST series

- We provide automatic discharge through a finished product conveyor and a built-in product box as a standard feature.
- The product box and air gun are provided as standard, making the work convenient.
- There is a connector that can be used to connect the product alignment secondary conveyor, and it can be conveniently used (OPTION: circular type / linear type can be selected).



- The large-capacity cutting oil tank makes cutting oil maintenance convenient.
- Equipped with a digital cutting oil flow sensor, it contributes to work safety and stable product quality.
- The sufficient size of the cutting oil piping maximizes the flow rate and hydraulic pressure of the pump.
- The cutting oil outlet is designed with a double strainer structure, ensuring high cleanliness inside the tank."

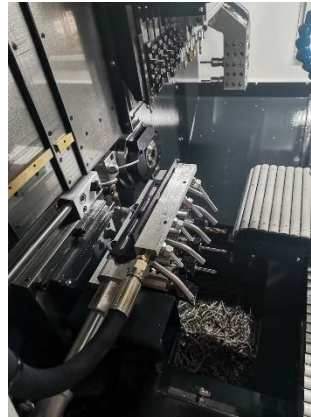


ST series

- Main flexible cutting oil pipe can be adjusted in position by rotation.



- Oil nozzle for guide bush
- Oil nozzle for back tool



- Cross drill high pressure coolant(option)
- Sub spindle oil nozzle(option)

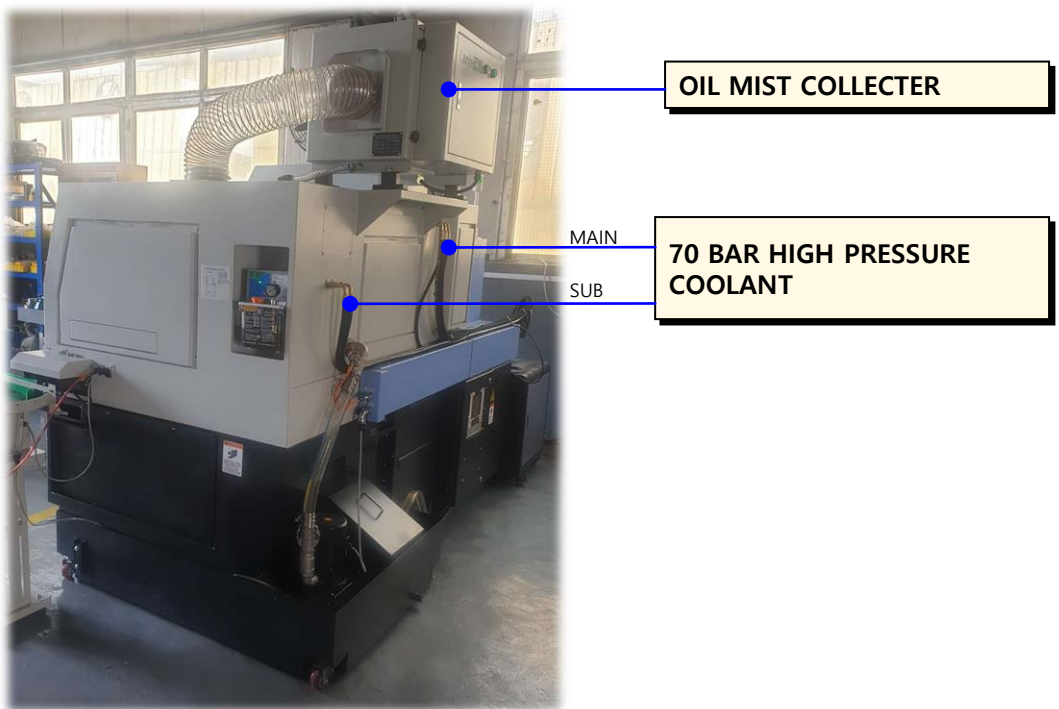


- Part eject oil blow(option)



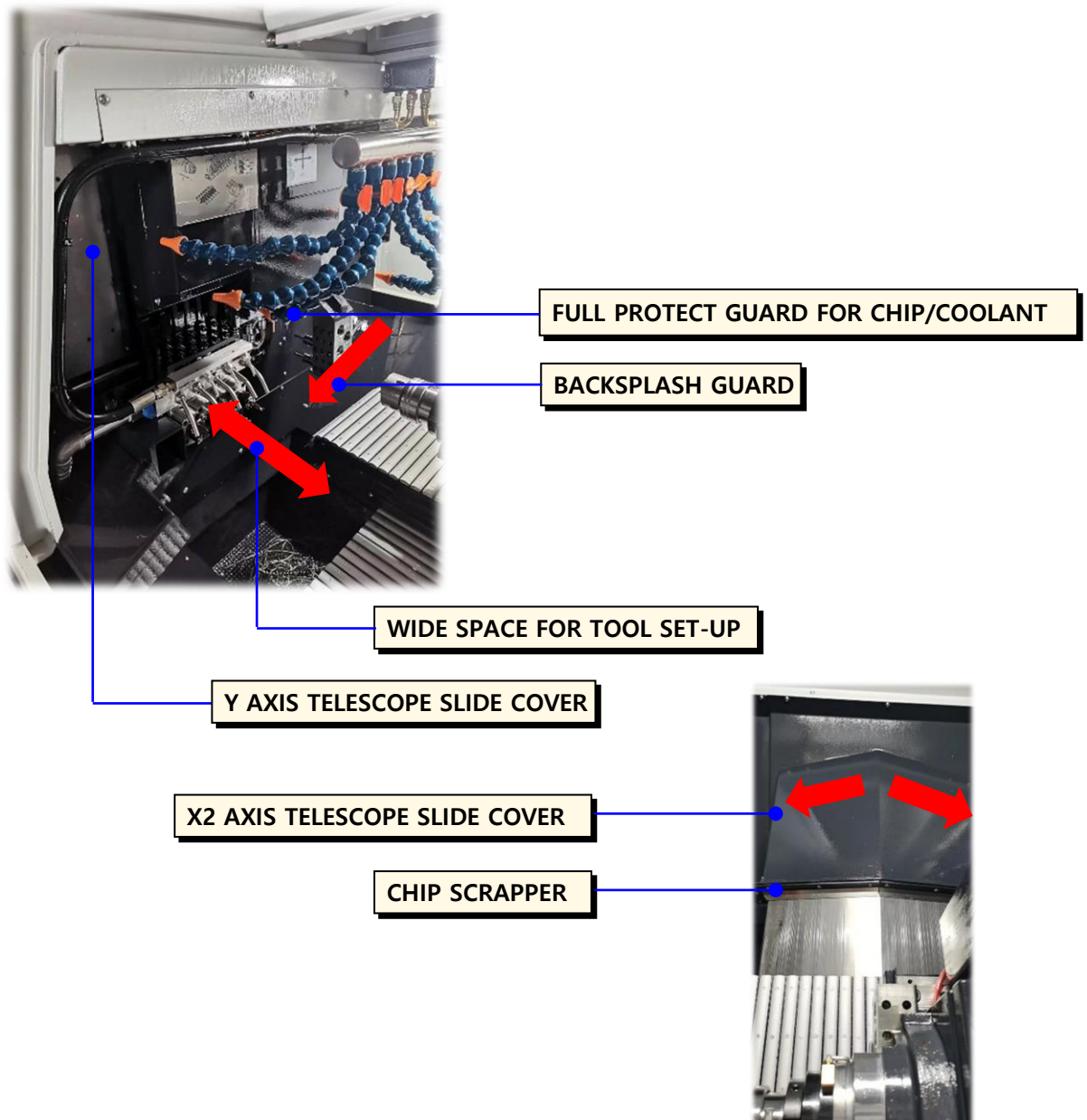
ST series

- The upper space of the machine is spacious enough to allow direct installation of a dust collector on the equipment body without the need for a separate stand.
- The high-pressure cutting oil pipes are equipped with connecting parts for the sheet metal components, allowing convenient installation in three locations for the main spindle and two locations for the sub-spindle."



ST series

- The machine has excellent heat dispersion and cooling effects due to superior protective treatment, minimizing casting deformation.
- The workspace is spacious, making tool setup convenient for operators.
- The space between the main turret and the sub-spindle is wide, allowing for a wider range of tool selection.
- The machine has an inclined surface cover structure inside, preventing chip accumulation and ensuring smooth chip discharge.



ST series

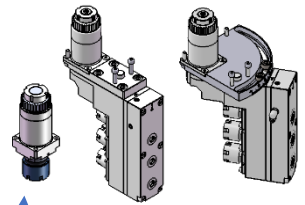
- The machine is suitable for high-precision machining with a rational tool layout.
- The rotating tools achieve high rigidity and precision through thermal assembly.
- It has excellent expandability to meet various customer demands by applying MODULAR TYPE tools.

TURNING TOOL

- TURNING TOOL
 - 20/26 : 16X16 1ea, 12X12 5ea
 - 32/38 : 16x16 5ea

CROSS DRIVEN TOOL

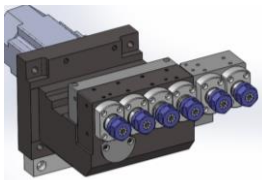
- DRILL/MILL TOOL
 - 20/26/32
 - 5 ea(ER16, 1.0 Kw/6,500 rpm)
 - 38
 - 5 ea(ER20, 1.0 Kw/6,500 rpm)
 - 5 ea(ER20, 1.0 Kw/6,000 rpm)



MODULER TYPE

FRONT TOOL

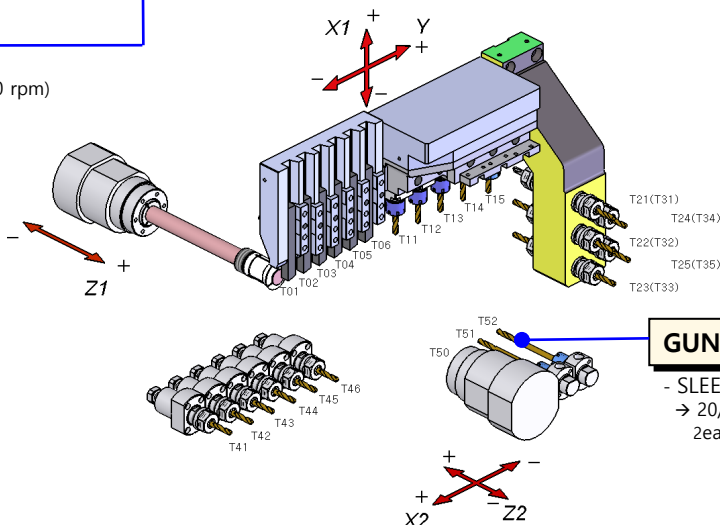
- SLEEVE HOLDER
 - 20/26/32
 - 5 ea(ER16, D25 Sleeve)
 - 38
 - 5 ea(ER20, D25 Sleeve)



MODULER TYPE

BACK TOOL

- ROTARY TYPE(1.0 Kw/6,000 rpm)
 - ER16 2 ea(Max 4 ea)
- STATIONARY TYPE
 - ER16 2 ea(Max 6 ea)

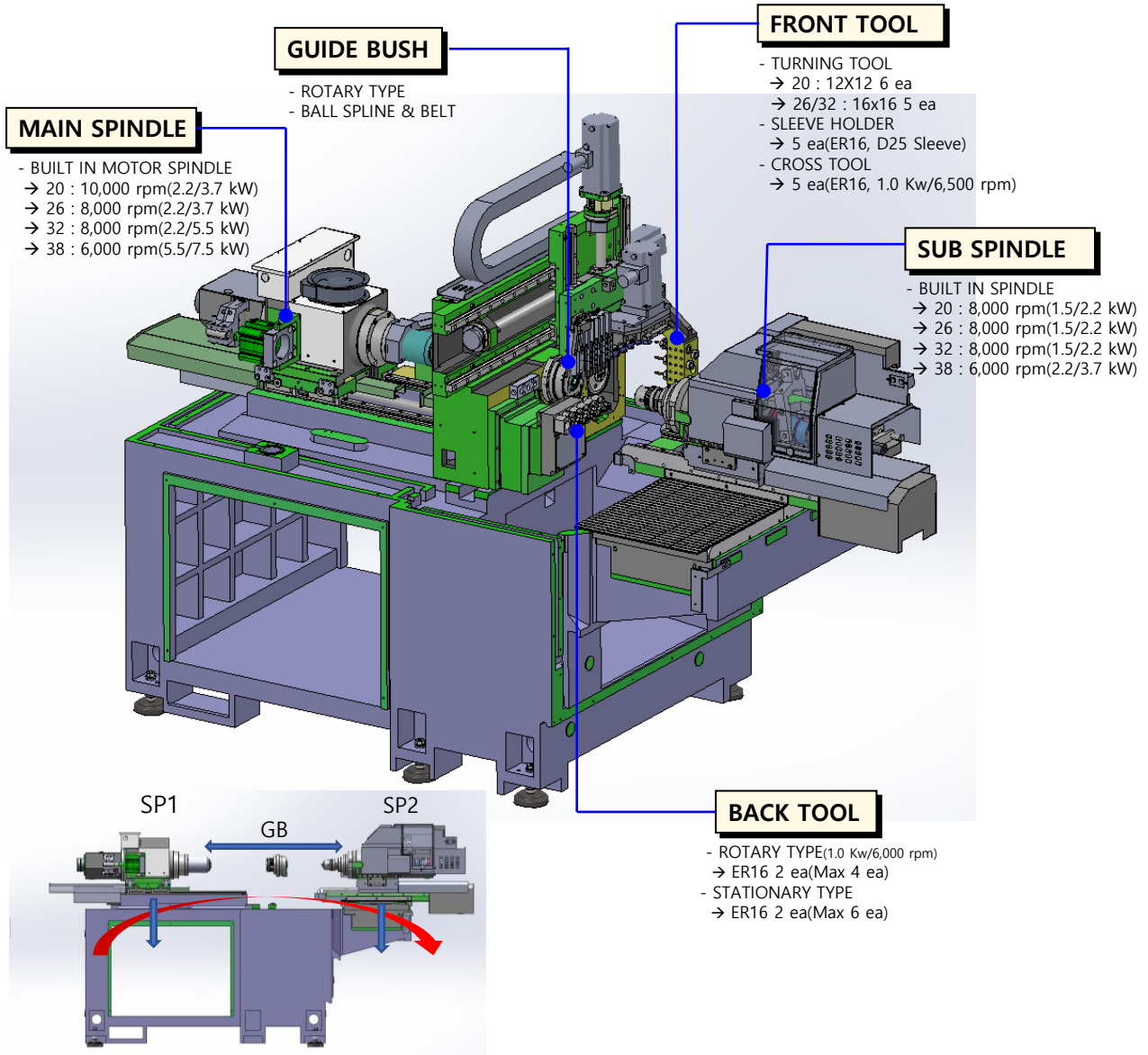


GUN DRILL(OPTION)

- SLEEVE HOLDER
 - 20/26
 - 2ea(ER16, SPECIAL Sleeve)

ST series

- With its high-strength bed structure and efficient tool arrangement, the machine is suitable for high-precision machining.
- The main and sub spindles, which use built-in motors, are optimized for high-precision and high-speed machining.



1. The stable bed structure and sufficient mass ensure stable machining.
2. The bed structure is designed to minimize deformation, and the concentricity between the <main spindle+guide bush> and <guide bush+sub spindle> is precisely maintained.
3. The reasonable weight distribution between the slide, main spindle, and sub spindle ensures high precision regardless of the location.

ST series

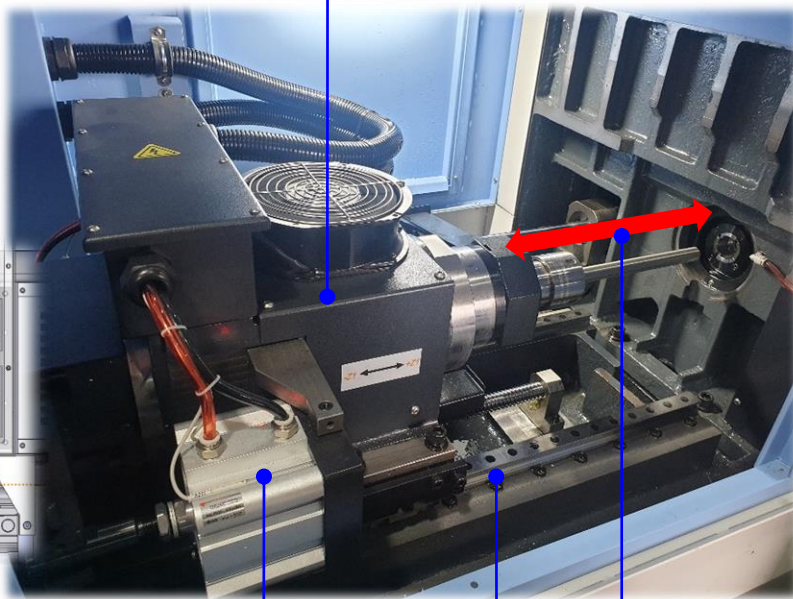
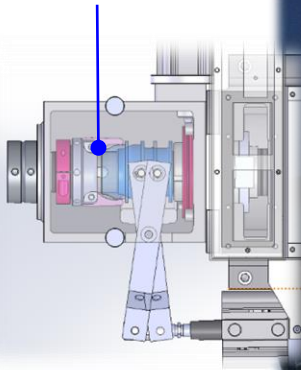
- The main spindle adopts a built-in motor, making it optimal for high precision and high-speed machining.
- The main spindle is compatible with both guide bush type (for processing long shaft products) and non-guide bush type (for processing short shaft products), allowing for efficient operation of the equipment.
- The Z1 spindle unit of the electric spindle adopts a roller guide rail to meet the high rigidity requirements.
- For machines with a size of 38 or larger, a roller guide rail is used in the Z1 axis, including the main axis, to meet high rigidity requirements.

MAIN SPINDLE

BUILT IN MOTOR SPINDLE

- 20 : 10,000 rpm(2.2/3.7 kW)
- 26 : 8,000 rpm(2.2/3.7 kW)
- 32 : 8,000 rpm(2.2/5.5 kW)
- 38 : 6,000 rpm(5.5/7.5 kW)

TOGGLE CHUCKING



Φ80 CHUCK AIR CYLINDER

Z1 STROKE

- 20/26 : 260mm
- 32/38 : 290mm

Z1 LM/BALL SCREW

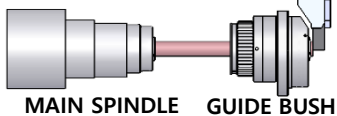
- Φ25 BALL SCREW
- W25 ROLLER GUIDE

ST series

- The main spindle spindles are designed to be compatible with both guide bush type (for long shaft products) and non-guide bush type (for short shaft products), allowing for versatile equipment operation.
- The rotation of the guide bush is synchronized with the spindle using splines and timing belts, and an stable structure is adopted.
- The guide bush unit uses seal bearings and has an air pressure function, ensuring stable bearing performance.

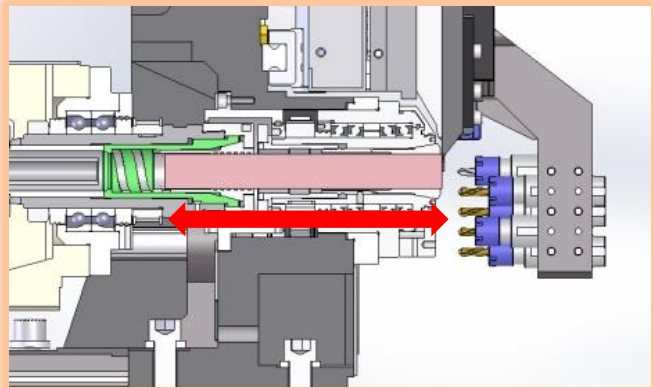
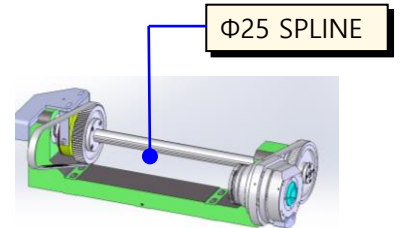
GUIDE BUSH TYPE

GUIDE BUSH TYPE



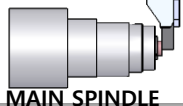
END LOSS

- 20 : 200mm
- 26 : 205mm
- 32 : 210mm
- 38 : 220mm



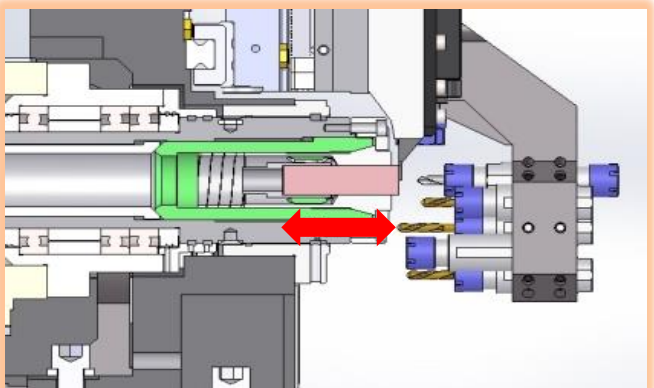
NON GUIDE BUSH TYPE

NON GUIDE BUSH TYPE



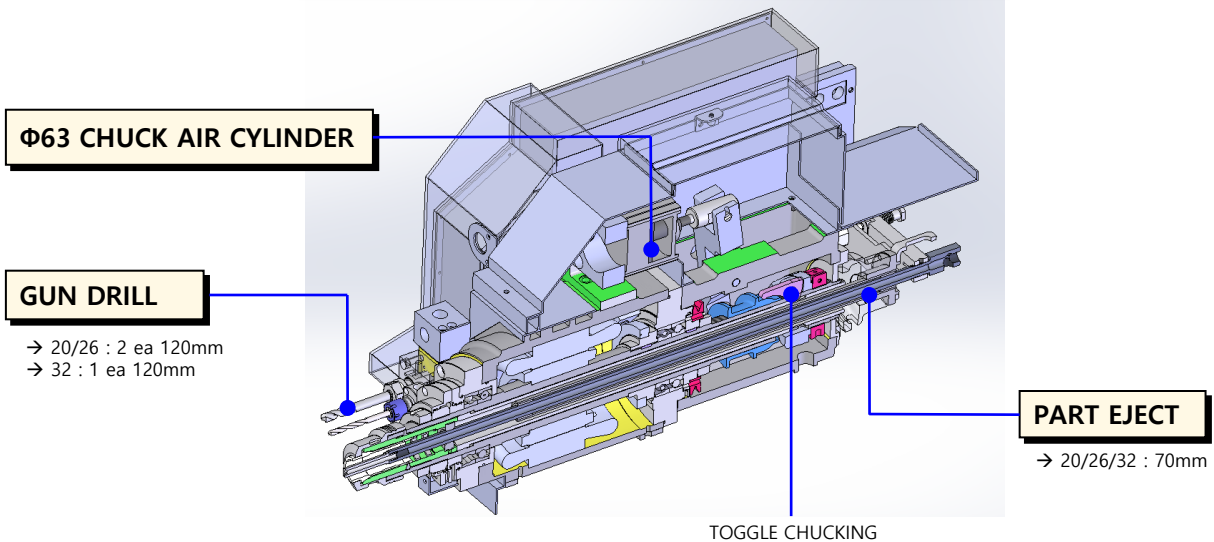
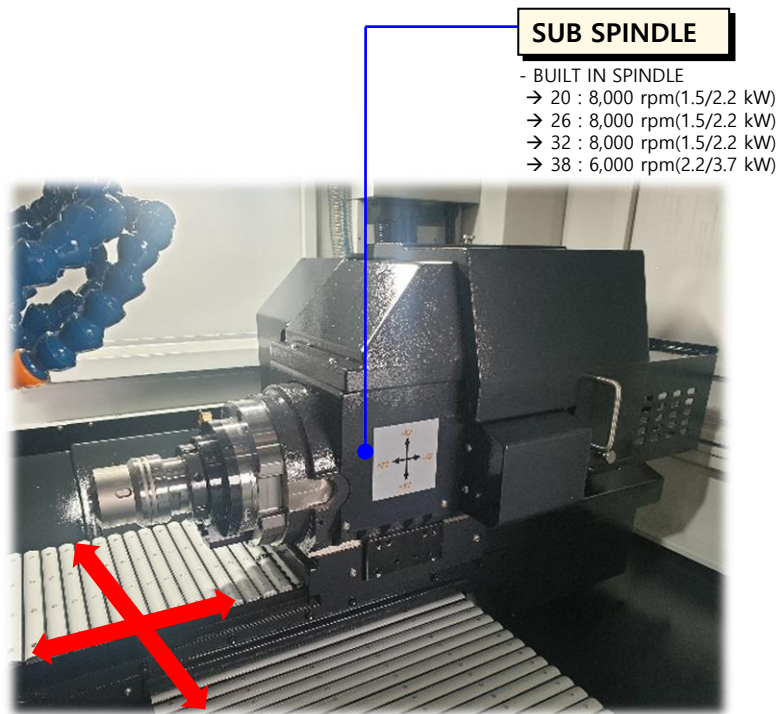
END LOSS

- 20 : 65mm
- 26 : 70mm
- 32 : 75mm
- 38 : 85mm



ST series

- The sub-spindle also adopts a built-in motor for high precision and high-speed machining.
- The body of the spindle is a single-piece structure that allows for easy installation and replacement.
- The 20/26 type has 2 gun drill, while the 32 type has 1 gun drill.



ST series

In terms of convenience, our equipment is equipped with various functions, including:

- Soft cutting detection function
- MPG program simulation
- Sub-tool collision prevention zone setting
- M CODE LIST call function
- Soft chip breaker (LFV)
- Tool lifespan management

Our control-related components comply with CE standards. In addition, the entire sealing of the control box provides excellent protection against external foreign substances.

OP PANEL



ELECTRIC BOX



MEMO



CONVERTIBLE TO NON GUIDE BUS
H TYPE SPINDLE(BUILT IN MOTOR)



SUB SPINDLE(BUILT IN MOTOR)



COOLANT PIPING NOZ
ZLE



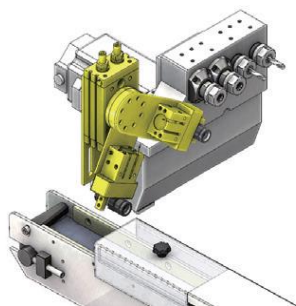
COOLANT FLOW SENS
OR



PARTS CONVEYOR & AIR GUN
& BOX



MONITOR SCREEN



PARTS GRIPPER(OPTION)



HYDRAULIC 3 JAWS CHUCK(OPTI
ON)