



SELICA
INTERNATIONAL CO.,LTD



PRECISION CNC LATHE
CNC MULTI-TASKING TURNING CENTER

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CE



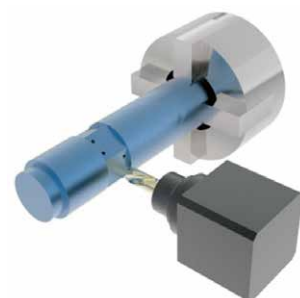
DUAL SPINDLE TURNING CENTERS

SZ-2000T2 / 2000T2Y / 2000T3Y2

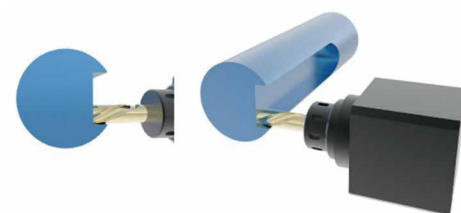
SZ-2000T2 / 2000T2Y / 2000T3Y2



➤ Twin Spindles & Twin Turrets

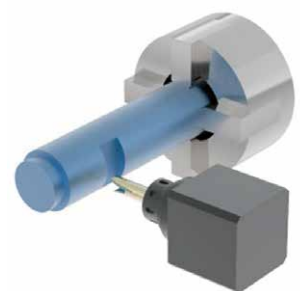


➤ Off-center Drilling

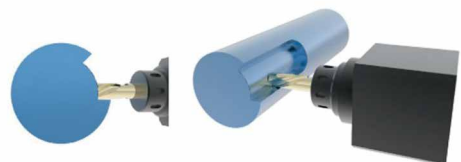


➤ With Y-Axis Control

Flats can be machined with precision since there is Y-axis control to precisely position the cutting tool.



➤ Side milling



➤ With C-Axis Control

Flats cannot be machined if there is no Y-axis control to precisely position the cutting tool in the correct orientation on the inner circumference.

Model	Unit	SZ-2000T2	SZ-2000T2Y	SZ-2000T3Y2
Swing over bed	mm	660		325
Swing over saddle	mm	620		325
Max. Spindle turning diameter	mm	320		
Max. turning length	mm	810	299	
Spindle nose taper	ASA	A2-5 (A2-8/A2-11)		
Spindle chuck diameter	inch	6 (10/15)		
Spindle speed	rpm	5000 (3500/2500)		
Spindle motor power Cont./30min	kW	11 / 15 (15/18.5)		
Spindle bar capacity	mm	52 (78/105)		
Sub spindle nose taper	ASA	A2-5 (A2-6)		
Sub spindle chuck diameter	inch	6 (8)		
Sub spindle speed	rpm	5000		
Sub spindle motor power Cont./30min	kW	11 / 15		
Sub spindle bar capacity	mm	52 (65)		
Z-axis travel	mm	Z1 / Z2:840		Z1 / Z3:350 Z2:840
Y-axis travel	mm	-	-45 / +60 (±70)	
X-axis travel	mm	X1 / X2:210		X1 / X2 / X3:210
B-axis travel	mm	920		
X/Z-axis rapid Traverse rate	m/min	24 / 40		
Y-axis rapid Traverse rate	m/min	-	20	
Tooling system		BMT 40 (BMT65)		
Turret driven type		Servo mechanical		
Number of tools	station	16x2=32 (12x2=24)		16x3=48 (12x3=36)
Square tool shank size	mm	20 (25)		
Round tool shank size	mm	32 (40)		
Rotary tool spindle power	kW	4.5		
Rotary tool spindle speed	rpm	4000		
Machine dimension L x W x H	m	4.7 x 2.4 x 2.3		
Net weight	kg	10500	11500	

Standard accessory

- Hollow 3-jaw hydraulic cylinder and chuck
- RS-232 interface
- Heat exchanger for electric cabinet
- Hydraulic power supply unit
- Coolant system (4-bar)
- Central lubrication unit
- Three-color warning light
- Chip conveyor and chip cart
- Standard soft jaw and hard jaw
- Tool kit
- Operation manual

Optional accessory

- Radial rotary tool holder
- Axial rotary tool holder
- Auto door
- Oil-coolant skimmer
- Oil mist collector
- Transformer
- CE certification

Axial travel

Travels

X1, X2 axis

210mm

Y1, Y2 axis

110mm

(+65 -45mm)

2 Turret

Z1, Z2 axis

840mm

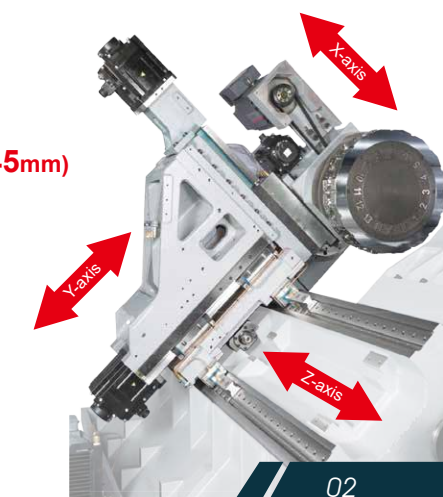
3 Turret

Z1, Z3 axis

350mm

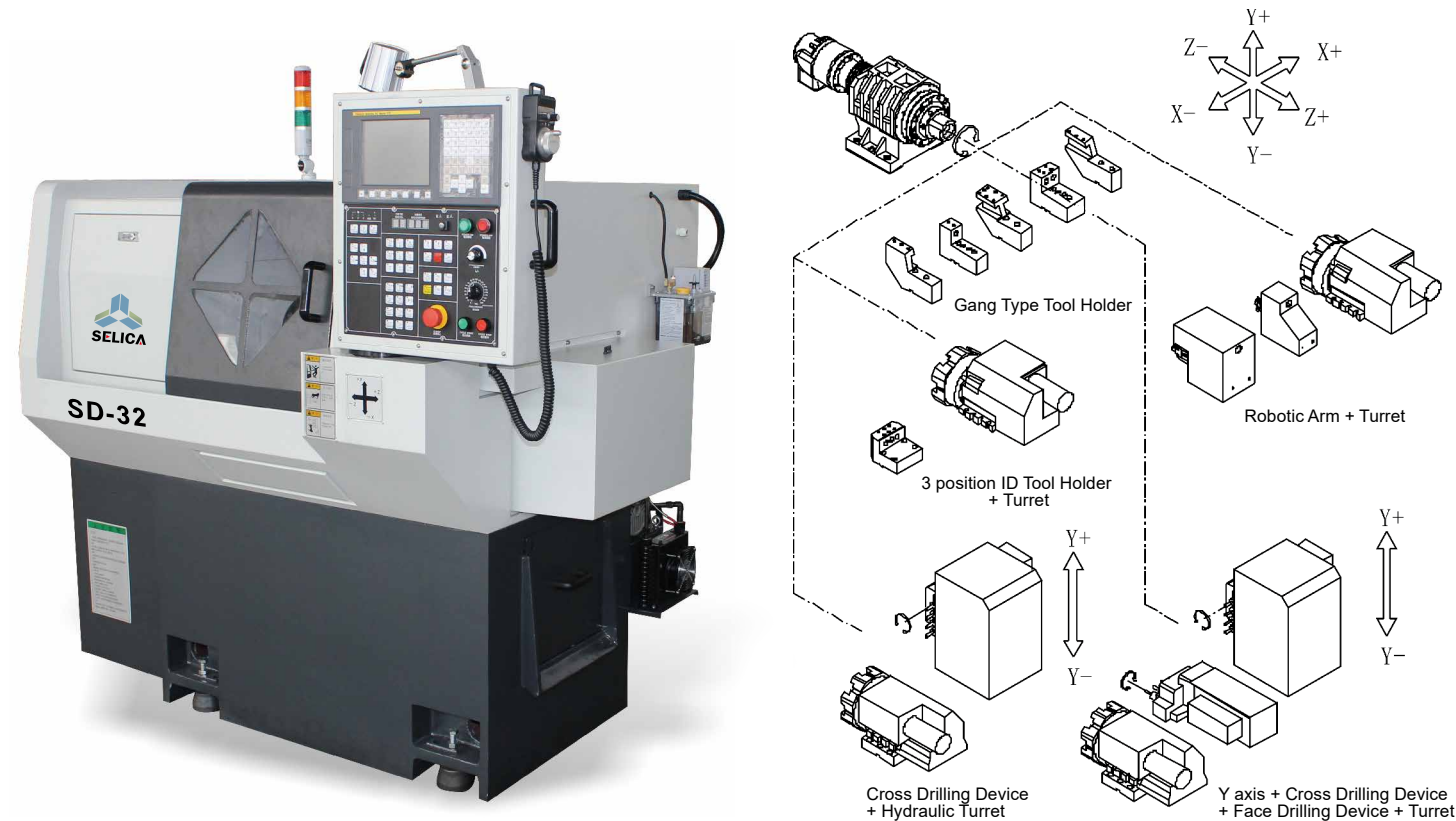
Z2 axis

840mm

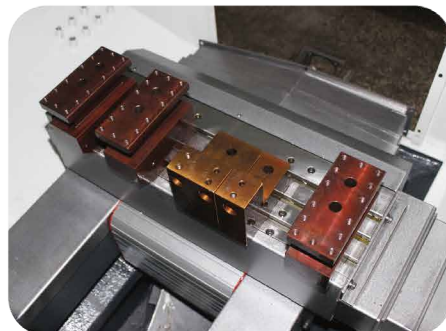


CNC GANG / TURRET LATHE

SD-32



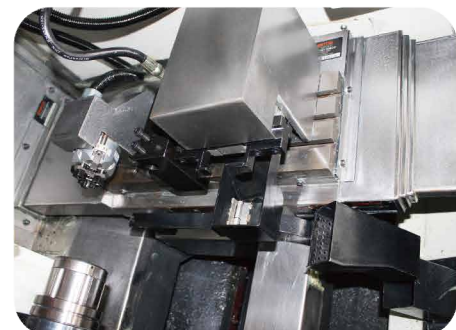
➤ **Collet Chuck**



➤ **Gang Type Tool Holder**



➤ **Hydraulic Turret
+ Face Drilling Device**



➤ **Robotic Arm**



➤ **Hydraulic Turret
+ 3 position ID Tool Holder**



➤ **Hydraulic Turret
+ Cross Drilling Device**

Model	Unit	SD-32	SD-32Y
Max. swing over bed	mm	500	
Max. turning diameter	mm	Ø100	
Spindle bore diameter	mm	Ø32	
Max. turning length	mm	100	
X/Z-axis travel	mm	200	
X/Z-axis rapid traverse	m/min	15	
Positioning accuracy	mm	0.005	
Transmission		Belt	
Spindle motor	kw	3.7	
Spindle speed	rpm	50-6000	
Spindle chuck		4"	
Ballscrew diameter	mm	Ø25	
X/Z-axis motor	kw	0.75	
Number of tool station	pcs	8	
Turret indexing time	sec	0.3	
Front drilling motor	kw	-	0.75
Cross drilling motor	kw	-	0.75
Y-axis motor	kw	-	0.75
Slideway type		Linear guide way	
Turning tool diameter	mm	□16	
Boring tool diameter	mm	Ø20	
Coolant motor	HP	1/4	
Coolant tank capacity	L	80(85%)	
Hydraulic motor	HP	1	
Hydraulic tank capacity	L	20(85%)	
Power requirement	kva	10	
Machine dimensions(LxWxH)	mm	1850x1500x1700	
Weight	kg	1700	1750

Standard accessory

- Cutting coolant
- Central lubrication unit
- Tools and tool box
- Foot switch
- Operation manual
- NC operation manual
- NC maintenance manual
- Collet chuck
- Barfeeder interface
- Inner tool holder
- Wedge block
- Cutting tool sleeve
- Heat exchanger

Optional accessory

- 4" 3 jaw chuck
- Chip conveyor and cart
- Parts conveyor
- Parts catcher
- Voltage stabilizer
- Transformer
- Hydraulic bar feeder

CNC SLANT BED LATHE

SL-60L Linear Guideway



SH-90 Square Guideway

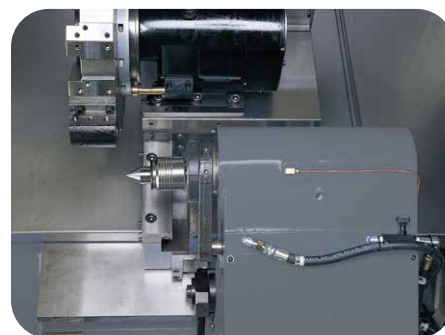


Model	Unit	SL-42	SL-52	SL-60	SL-60L
Max. swing over bed	mm	510	510	510	510
Max. turning diameter	mm	Ø320	Ø320	Ø320	Ø320
Max. turning length	mm	320	320	320	500
Spindle max. bar capacity	mm	Ø42	Ø50	Ø60	Ø60
Spindle bore diameter	mm	Ø56	Ø70	Ø75	Ø75
Spindle nose		A2-5	A2-5	A2-6	A2-6
Spindle speed range	rpm	45~3500	45~3500	45~3500	45~3500
Spindle motor	kw	Standard: 7.5 , Optional: 15		15	
Number of tool station		10	10	12(8)	12(8)
Max. stroke X/Z-axis	mm	171/360	171/360	170/360	171/550
Rapid traverse X/Z-axis	m/min	16/20	16/20	16/20	16/20
Turret indexing time	sec	0.3	0.3	0.3	0.3
Machine slant design	deg	30°	30°	30°	30°
Slideway type		Linear guideway		Linear guideway	
Quill taper		MT4	MT4	MT4	MT4
Tailstock traverse	mm	100	100	100	100
Spindle hydraulic chuck		8"	8"	8"	8"
Turning tool diameter	mm	□20	□20	□20	□20
Boring tool diameter	mm	Ø32	Ø32	Ø32	Ø32
X/Z-axis ballscrew	mm	Ø32	Ø32	Ø32	Ø32
Hydraulic motor	kw	1.5	1.5	1.5	1.5
Lubrication system motor	kw	3.5	3.5	3.5	3.5
Power requirement	kva	20	20	32	32
Coolant tank capacity	L	120	120	120	120
Machine dimensions(LxWxH)	mm	2165x1555x1890	2165x1555x1890	2475x1605x1910	2780x1625x1948
Weight	kg	3100	3200	2800	3200



➤ 3-Jaw Chuck, Turret and Tailstock

The 12-position heavy turret features large diameter curvic coupling and high pressure of 4396 kgf. Tool change time between adjacent tools is 0.3 seconds.



➤ Programmable Tailstock

The widely spaced tailstock slideways and heavy duty construction assure maximum rigidity. The center sleeve can be controlled by foot switch or programs.



➤ Precision Spindle

The spindle stock is manufactured from high quality meehanite cast iron. The spindle stock surface has fins to increase heat dissipation efficiency while assuring spindle accuracy.

Standard accessory

- Cutting coolant
- Splash guard
- Hydraulic turret
- Tailstock
- Chuck air blow
- Tools and tool box
- Wedge block
- Leveling pads
- Heat exchanger
- Operation manual

Optional accessory

- Tool presetter
- Chip conveyor
- Parts conveyor
- Parts catcher
- Voltage stabilizer
- Transformer
- Hydraulic bar feeder
- CE certification



CNC SLANT BED LATHE

Model	Unit	SH-75/90	SH-75L/90L	SH-75M/90M	SH-75ML/90ML
Max. swing over bed	mm	Ø670	Ø670	Ø670	Ø670
Max. turning diameter	mm	Ø520	Ø520	Ø400	Ø400
Max. turning length	mm	610	1100	540	1100
Spindle max. bar capacity	mm	Ø73 / Ø89		Ø73 / Ø89	
Spindle bore diameter	mm	Ø87 / Ø102		Ø87 / Ø102	
Spindle nose		A2-8		A2-8	
Spindle speed range	rpm	45~3000		45~3000	
Spindle motor	kw	18.5 / 22		18.5 / 22	
Number of tool station		12 / 10	12 / 10	12	
Max. stroke X-axis	mm	270		270	
Max. stroke Z-axis	mm	650	1150	550	1050
Rapid traverse X-axis	m/min	16		16	
Rapid traverse Z-axis	m/min	20		20	
Machine slant design	deg	45°		45°	
Slideway type		Square guideway		Square guideway	
Tailstock taper		MT5		MT5	
Spindle hydraulic chuck	inch	10" / 12"		10" / 12"	
Turning tool diameter	mm	□32		□32	
Boring tool diameter	mm	Ø50		VDI 50	
Driven tool motor power /30min	kw	-		7.5	
Hydraulic pump motor	kw	1.5		1.5	
Lubrication motor	kw	75		75	
Power requirement	kva	44		56 / 62	
Coolant tank capacity	L	190		190	
Machine dimensions(LxWxH)	mm	3209x1990x2200	3965x1990x2200	3290x1990x2200	3965x1990x2200
Weight	kg	6350/6380	7510/7530	6400/6430	7560/7590

Standard accessory

- Cutting coolant
- Splash guard
- Hydraulic turret
- Tailstock
- Chuck air blow
- Tools and tool box
- Wedge block
- Leveling pads
- Heat exchanger
- Operation manual
- Power turret
(For SH-75M/75ML/90M/90ML)
- C axis
(For SH-75M/75ML/90M/90ML)

Optional accessory

- Tool presetter
- Chip conveyor and cart
- Parts conveyor
- Parts catcher
- Voltage stabilizer
- Transformer
- CE certification



Model	Unit	SH-550	SH-680	SH-700	SH-900
Max. swing over bed	mm	750	850	900	1030
Max. turning diameter	mm	550	680	700	900
Max. turning length	mm	630 1130 1630 2130 3062	630 1130 1630 2130 3062	1300 2000 2900 3900 4900	1300 2000 2900 3900 4900
Spindle max. bar capacity	mm	90 (105/116.5/166.5)			116(190/235/260/320/360)
Spindle bore diameter	mm	101 (116/131/181)			131(205/235/258) 205(235/258/320/375)
Spindle nose		A2-8 (A2-11/A2-15)			A2-11 (A2-15) A2-15 (A2-20)
Spindle speed range	rpm	2700 (2500/2000/1800)			2000(1500/850/800) 850(800/800/300)
Spindle motor	kw	18.5/22 (30/37)	18.5/22 (30/37) +2-speed gearbox	30/37 (37/45) +2-speed gearbox	
Number of tool station		12 (12)			12
Max. stroke X-axis	mm	275+30	340+30	350+30	450+20
Max. stroke Z-axis	mm	750 1250 1750 2250 3182	750 1250 1750 2250 3182	1500 2200 3100 4100 5100	1500 2100 3100 4100 5100
Rapid traverse X-axis	m/min	20			20
Rapid traverse Z-axis	m/min	20 20 20 16 10	20 20 20 16 10	24 15 10 6 6	24 15 10 6 6
Slideway type		Square guideway			
Tailstock taper		MT6			MT6
Spindle hydraulic chuck	inch	12(15/18)			15(18/20/24) 24(32)
Turning tool diameter	mm	□32(25)			□32
Boring tool diameter	mm	Ø50(40)			Ø50(50) Ø50
Machine length	cm	340 570 610 640 790	340 570 610 640 790	590 680 800 960 1110	620 690 790 890 1050
Machine width	cm	220			280
Machine height	cm	230			270 300
Weight	kg	6200 7000 9000 10500 12000	6500 7500 9500 11000 12000	15000 16000 18000 23000 26000	16500 18500 20000 24000 25000

Standard accessory

- Hollow 3-jaw hydraulic cylinder and chuck
- RS-232 interface
- Heat exchanger for electric cabinet
- Hydraulic power supply unit
- Coolant system (4-bar)
- Central lubrication unit
- Three-color warning light
- Chip conveyor and chip cart
- Standard soft jaw and hard jaw
- Tool kit
- Operation manual

Optional accessory

- Radial rotary tool holder
- Axial rotary tool holder
- Auto door
- Oil-coolant skimmer
- Oil mist collector
- Transformer
- CE certification



CNC SWISS TYPE LATHE

SS-20A / 20AS / 20AB / 20AST

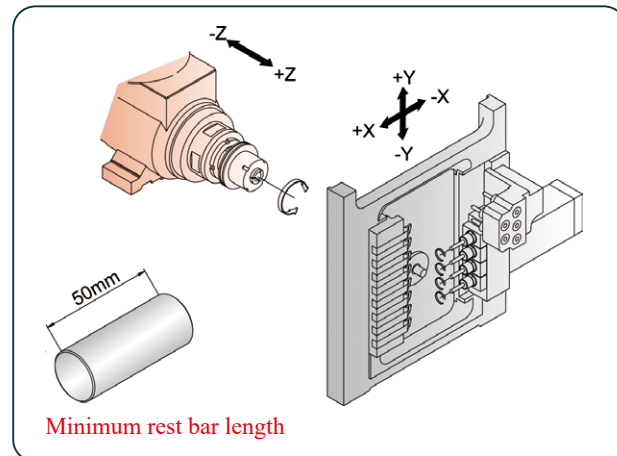


Standard accessory

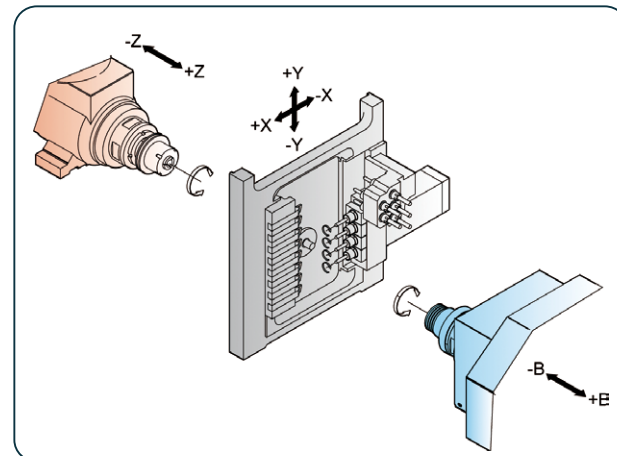
- Guide bush
- Non guide bushing holder
- Spindle collet
- Cutting coolant inspection
- Cut-off inspection
- Central lubrication unit
- Parts catcher
- Leveling pads
- Cutting coolant
- Lighting device
- Tool and tool box
- Operation manual
- Stationary tool holder (\$2) x 2 (for SS-20AB)
- Rotary tool holder (\$2) x 2 (for SS-20AB)

Optional accessory

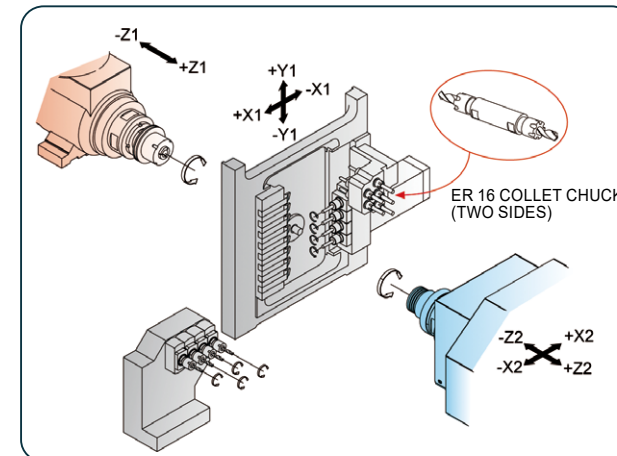
- Fixed guide bushing holder
- Simultaneously rotary guide bushing holder
- Chip conveyor
- Parts conveyor
- Long parts catcher
- 3 position eccentric rotary tool holder
- ER16 collet chuck (double side) (for SS-20AS/20AB/20AST)
- ER16 collet set
- Voltage stabilizer
- Transformer
- Hydraulic bar feeder
- CE certification



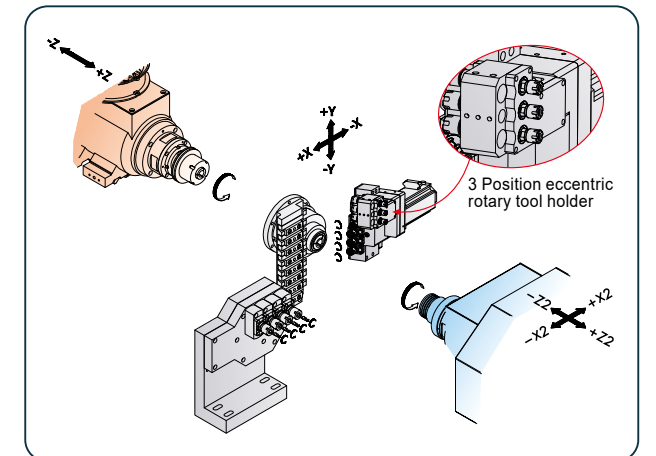
SS-20A



SS-20AS



SS-20AB



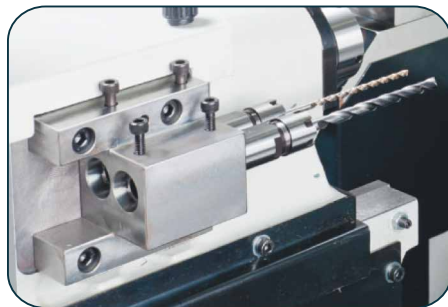
SS-20AB (With 3 position eccentric rotary tool holder)

Model	Unit	SS-20A	SS-20AS	SS-20AB	SS-20AST
Max. turning dia. of main spindle	mm		20		
Max. turning dia. of sub-spindle	mm	-	20	20	
Max. turning length (fixed guide bush)	mm		200		
Max. turning length (rotary guide bush)	mm		85		
Max. turning length (non guide bush)	mm		45		
Max. drilling capacity of main spindle	mm		10		
Max. drilling capacity of sub-spindle	mm	-	10	10	
Max. tapping capacity of main spindle			M8		
Max. tapping capacity of sub-spindle		-	M8	M8	
Max. cross drilling capacity	mm		10		
Max. cross tapping capacity			M6		
No. of external turning tools	pcs		8		
No. of internal turning tools	pcs		5		
No. of cross drillings	pcs		4 (optional: 7)		
No. of face tool holder of sub-spindle	pcs	-	-	4	
Size of tool	mm		12 x 12 x 90		
No. of axis controls		4 (X/Y/Z/C)	5 (X/Y/Z/C/B)	7 (X1/Y1/Z1/X2/Z2/C1/C2)	
Bore of spindle	mm		29		
Spindle speed range	rpm		15~8000		
Rapid traverse X/Z	m/min		24		
Main spindle motor	kw		3.7		
Sub-spindle motor	kw	-	2.2	2.2	
X1/Z1 motor	kw		0.5 / 0.75		
Y-axis motor	kw		0.75		
Cross drilling motor	kw	0.5	0.5	0.75	
Face drilling motor	kw	-	-	0.75	-
X2/Z2 motor	kw	-	-/0.5	0.5/0.5	
Coolant motor	kw		0.375		
Power requirement	kva	10	15	15	
Machine dimensions	mm	1950x970x2215	2045x1270x2025	2430x1420x2135	
Weight	kg	1800	2140	2400	

CNC SWISS TYPE LATHE

SS-20RB / RBY

The cutting edge of parts turning and milling main and sub-spindle combined with multiple tooling systems for maximum flexibility of machining



SS-20RB/20RBY

Deep Hole Drilling Device

- The sub-spindle side is available to equip with deep hole drilling device with coolant through drill.



SS-20RBY

Main Spindle and Tooling System

- OD tool holder : 6 tools
- ID tool holder : 4 tools
- Cross live tool holder : 5 tools



SS-20RBY

Sub-spindle Tooling System

- The sub-spindle tooling system allows the machine to perform back side machining on a part.



SS-20RB/20RBY

Non-guide Bushing Holder

- For use on the conserving tool lathe to reduce end bar for saving material and cost.



SS-20RB/20RBY

Fanuc 32iB CNC Control

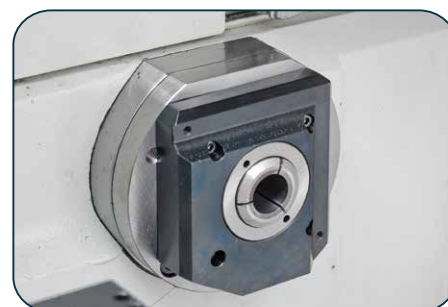
- Control panel can be moved and swiveled for upgrading convenience of operation.



SS-20RB

Sub-spindle Tooling System

- The sub-spindle tooling system allows the machine to perform back side machining on a part.



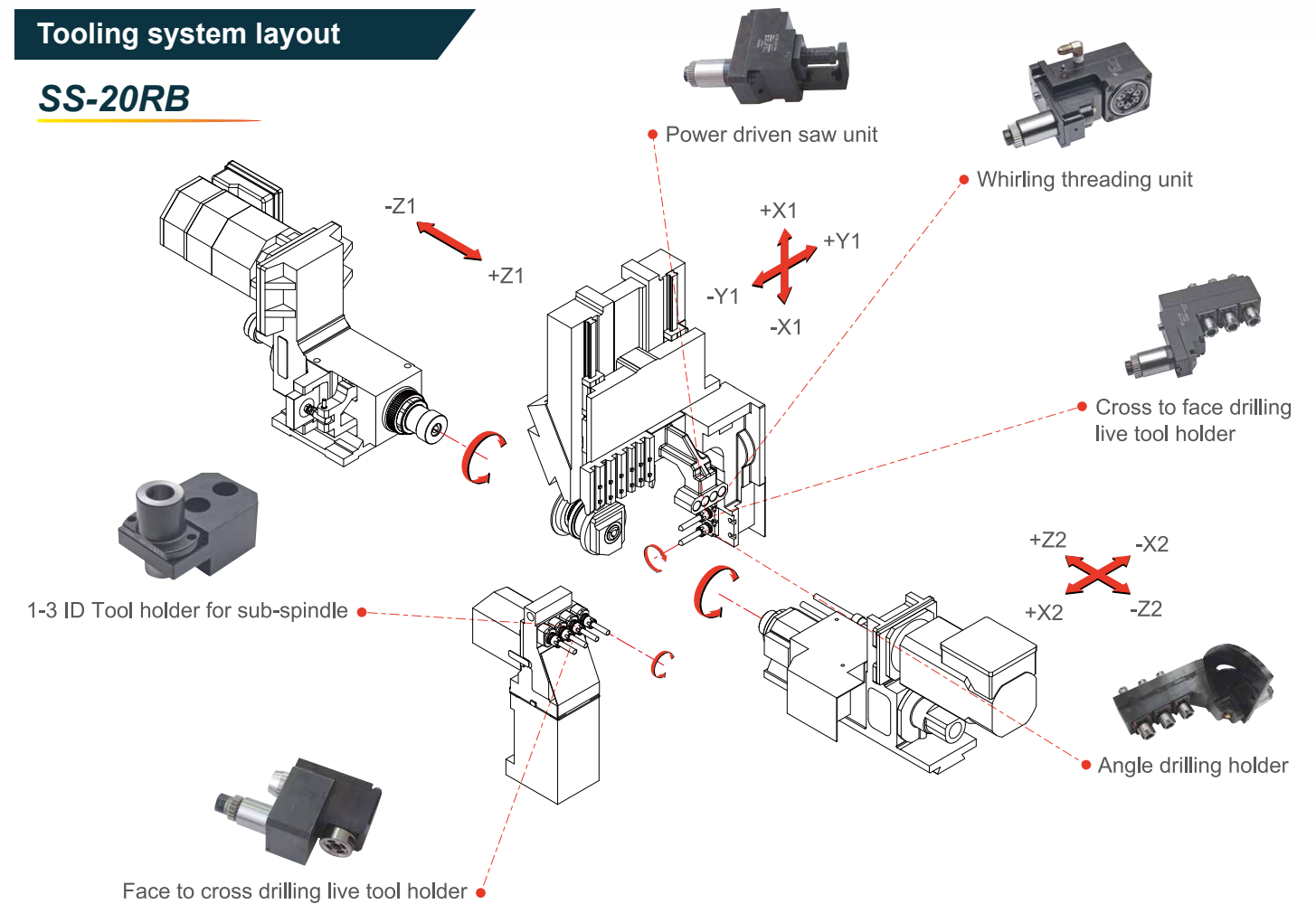
SS-20RB/20RBY

Rotary Guide Bushing Holder

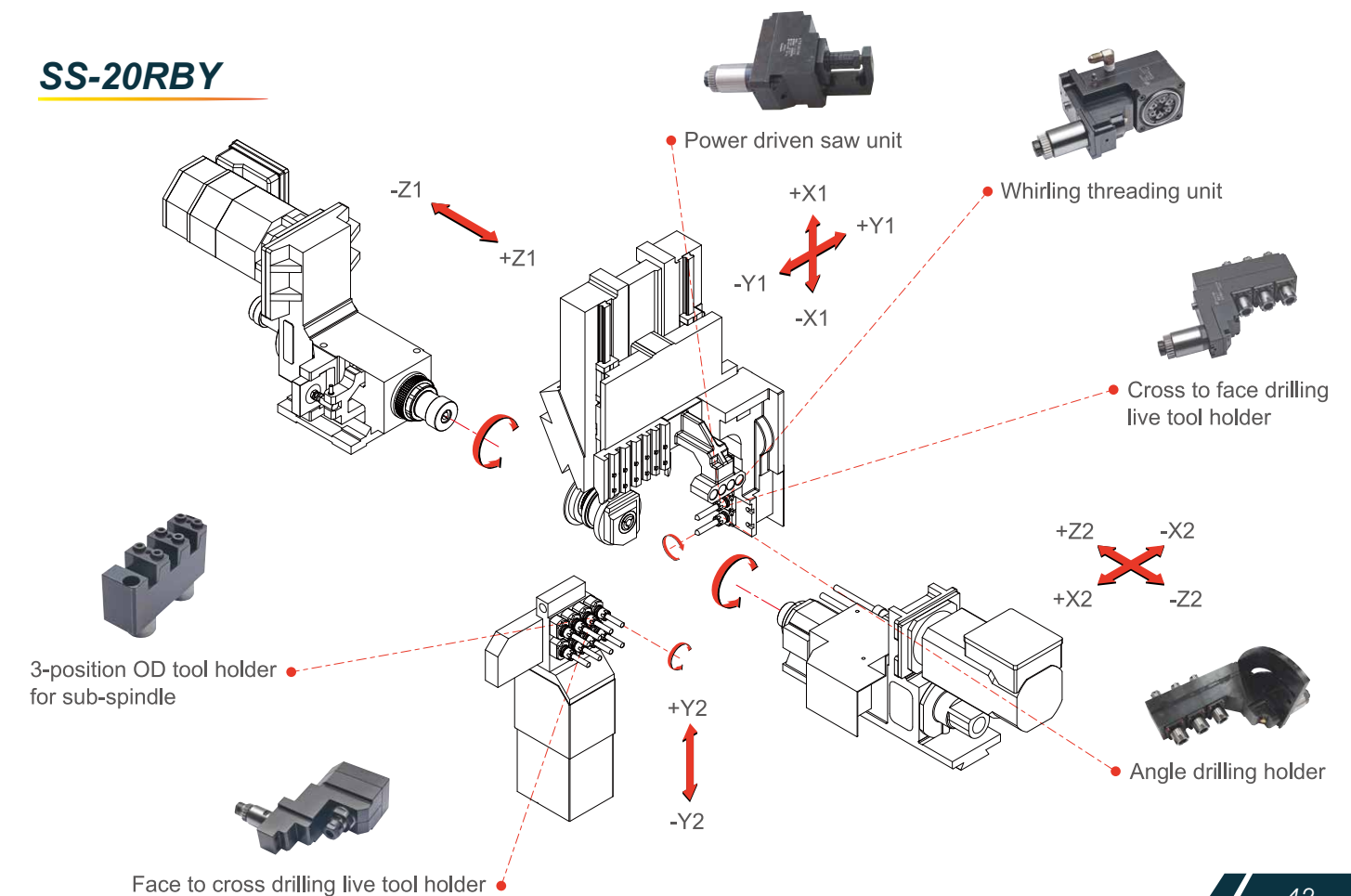
- For use on the sliding head lathe to increase stability and surface finish in long part machining.

Tooling system layout

SS-20RB



SS-20RBY



Model	Unit	SS-20RB		SS-20RBY	
Max. turning dia. of main spindle	mm	20			
Max. turning dia. of sub-spindle	mm	20			
Max. turning length (rotary guide bush)	mm	250	190	250	190
Max. turning length (non guide bush)	mm	-	50	-	50
Max. turning length (fixed guide bush)	mm	280	220	280	220
Max. drilling / tapping capacity of main spindle	mm	Ø10 / M8			
Max. drilling / tapping capacity of sub-spindle	mm	Ø8 / M8			
Max. cross drilling / tapping capacity	mm	Ø8 / M6			
OD tool holder	pcs	6 / □12mm			
ID tool holder	pcs	4 / Ø22mm			
Main spindle cross live tool holder	pcs	5 / ER-16			
Sub-spindle face live tool holder	pcs	4		8	
No. of axis controls	pcs	7		8	
Main / sub-spindle bore	mm	Ø26.6			
Main / sub-spindle max. speed	rpm	10000 / 8000			
X1/Z1/Y1/X2/Z2/Y2 rapid traverse	m/min	24			
Main spindle cross drilling max. speed	rpm	8000			
Main spindle cross driven motor	kw	1.2			
Sub-spindle face driven motor	kw	0.5		0.75	
Sub-spindle face drilling max. speed	kw	8000			
Main spindle motor	kw	2.2 / 3.7			
Sub-spindle motor	kw	2.2 / 3.7			
X1/Z1/Y1 motor	kw	0.75			
X2/Z2 motor	kw	0.5			
Y2 motor	kw	-		0.5	
Coolant pump motor	kw	2.3			
Power requirement	kva	20			
Lubrication capacity	L	2			
Coolant tank capacity	L	220 (100%)			
Machine dimensions (LxWxH)	mm	2846 x 1284 x 2024			
Weight	kg	2670		2700	

Machine dimensions

Technical drawing of the machine showing dimensions. The overall width is 2846 mm and the overall height is 2024 mm. The bar feeder length is indicated as a variable dimension. The machine base has a total width of 3618 mm, with a 50 mm gap on the left, a 380 mm gap between the base and the main body, and a 1210 mm gap between the main body and the right side. The right side has a 3618 mm width.

Dimension	Value (mm)
Overall width	2846
Overall height	2024
Bar feeder length	Variable
Base width (left gap)	50
Base width (middle gap)	380
Base width (right gap)	1210
Base width (total)	3618

- External tool holder (6 tools)
- Inner tool holder (4 tools)
- Cross drilling tool holder (5 tools)
- Parts catcher and conveyor
- Tools and tool box
- Lighting device
- Non guide bushing holder or fixed guide bushing holder
- Spindle servo motor
- Main spindle C-axis
- Cutting coolant
- Cutting coolant inspection (electronic type)
- Cut-off inspection
- Central lubrication unit
- Sub-spindle C-axis
- Sub-spindle
- Sub-spindle tool holder for 4 position eccentric and drilling
- Sub-spindle tool holder for 8 position eccentric and drilling
- Y2-axis
- Fixed tool holder (sub-spindle)
- Rotary tool holder (sub-spindle)
- 3 position OD tool holder $\varnothing 10$ (sub-spindle)
- Chuck gripper
- Machining room with safety lock
- Guide bush
- Spindle collet chuck
- Operation manual
- NC operation manual
- NC maintenance manual

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2pcs	3pcs
-	1pcs
2pcs	2pcs
O	O
1pcs	1pcs
2pcs	2pcs
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O	O

- Stationary tool holder (sub-spindle) ER-16
- Rotary tool holder (sub-spindle) ER-16
- Whirling threading unit (without inserts and insert holder)
- Power driven saw unit (main spindle)
- Power driven saw unit (sub-spindle)
- 3 position face live tool holder for main and sub-spindle
- 3 position angle drilling tool holder (manual adjusting)
- 1 position cross live tool (sub-spindle)
- 1 position OD tool holder (sub-spindle)
- Ø16 ID tool holder shortened type (sub-spindle)
- Ø16 ID tool holder (sub-spindle)
- Extended ID tool holder Ø16
- Extended ID tool holder Ø16 (with one Ø16 ID tool holder)
- ER 16 M2 double sided inner tool holder
- ER 16 collet set
- Long parts catcher (sub-spindle)
- Chip conveyor and cart
- Cutting oil cooler
- Collet spring
- Chuck gripper
- H.P. coolant system 15/50/100 bar (with sub coolant tank)
- Oil mist collector
- Voltage stabilizer
- Transformer
- Hydraulic bar feeder
- CE certification

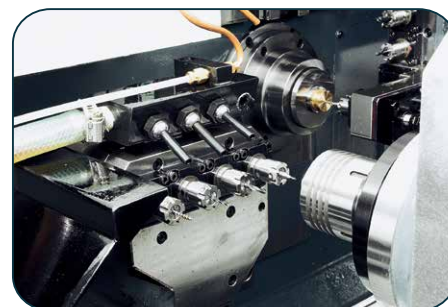


CNC SWISS TYPE LATHE

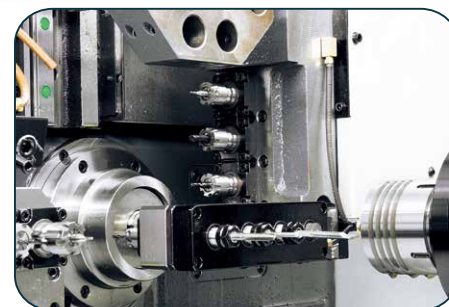
SS-32A / 32S / 32AS / 32AB / 42AB



➤ Control panel can be moved and swiveled for upgrading convenience of operation.



➤ **SS-32AB/SS-42AB**
The main spindle and sub-spindle perform machining synchronously.



➤ **SS-32AB/SS-42AB**
Main spindle and sub-spindle perform machining synchronously.

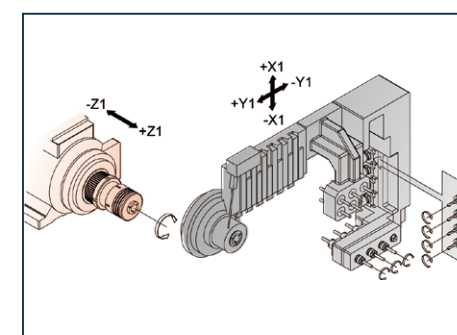
Standard accessory

- Spindle servo motor
- External tool holder (6 tool)
- Internal tool holder (5 tool)
- Cross drilling tool holder (4 tool)
- Parts catcher
- Tool and tool box
- Lighting device
- Cutting coolant
- Cutting coolant inspection
- Cut-off inspection
- Central lubrication unit
- Operation manual
- Spindle collet
- Guide bush
- Main spindle hydraulic system

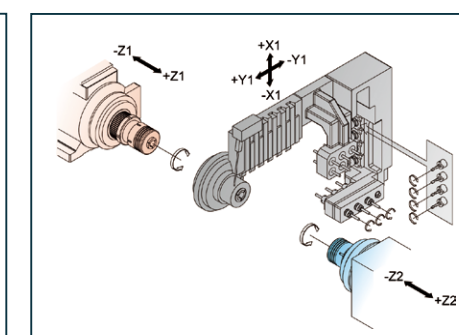
Optional accessory

- Non guide bushing holder
- Simultaneously rotary guide bushing holder
- 3 position eccentric rotary tool holder
- Chip conveyor
- Parts conveyor
- Long parts catcher
- ER16 collet chuck (double side) (for SS-32S/32AS/32AB/42AB)
- ER16 collet set
- ER20 collet set
- Cutting oil cooler
- Voltage stabilizer
- Transformer
- Hydraulic bar feeder
- CE certification

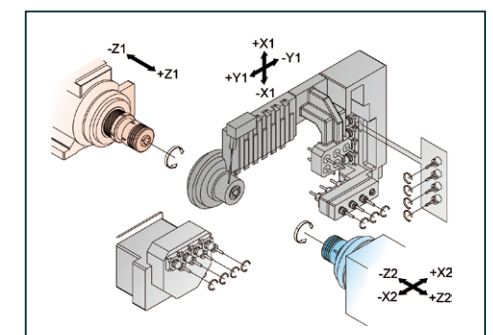
Model	Unit	SS-32A	SS-32S	SS-32AS	SS-32AB	SS-42AB
Max. turning dia. of main spindle	mm	32	32	32	32	42
Max. turning dia. of sub-spindle	mm	-	32	32	32	42
Max. turning length (fixed guide bush)	mm	220				
Max. turning length (rotary guide bush)	mm	200				
Max. turning length (non guide bush)	mm	80	80	80	80	80
Max. drilling capacity of main spindle	mm	13				
Max. drilling capacity of sub-spindle	mm	-	13	13	13	13
Max. tapping capacity of main spindle		M10				
Max. tapping capacity of sub-spindle		-	M10	M10	M10	M10
Max. cross drilling capacity	mm	10	-	10	10	10
Max. cross tapping capacity		M8	-	M8	M8	M8
No. of external turning tools	pcs	6 / 5 (type 42)				
No. of internal turning tools	pcs	5				
No. of cross drillings	pcs	4 + (1)				
No. of face tool holder of sub-spindle	pcs	-	-	-	4	4
Size of tool	mm	16 x 16 x 95~155 / 20 x 20 x 95~155 (type 42)				
No. of axis controls		4	4	5	7	7
Bore of spindle	mm	45	45	45	45	45
Spindle speed range	rpm	200 ~ 7000 / 200 ~ 6000 (type 42)				
Rapid traverse X / Z	m/min	24				
Main spindle motor	kw	7.5				
Sub-spindle motor	kw	-	7.5	7.5	7.5	7.5
X1 / Z1 motor	kw	1.4				
Y-axis motor	kw	0.75				
Cross drilling motor	kw	1.4	-	1.4	1.4	1.4
Face drilling motor	kw	-	-	-	0.75	0.75
X2 / Z2 motor	kw	-	-/0.75	-/0.75	0.75/0.75	0.75/0.75
Coolant pump motor	kw	2.3				
Machine dimensions	mm	2360x1725x2095		2865x1625x2065		
Weight	kg	2500	2650	2700	3100	3100



➤ **SS-32A**



➤ **SS-32AS/42AS**



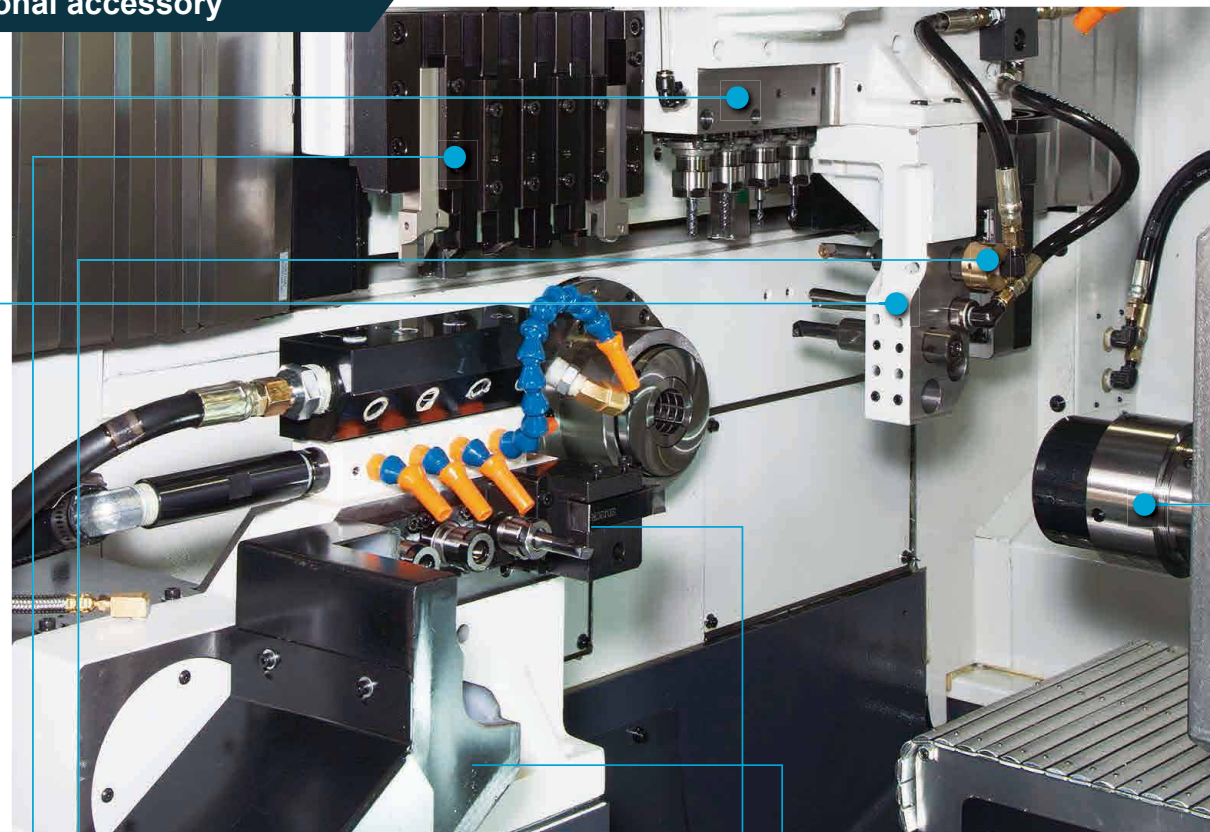
➤ **SS-32AB/42AB**

CNC SWISS TYPE LATHE

SS-32RB / 32RBY / 42RB / 42RBY



Optional accessory



First tooling system

- 6-position O.D. tool holder
- 6-position cross drilling & milling tool holder
- 5-position I.D. tool holder
- High pressure coolant system

Second tooling system

- Parts catcher
- Sub-spindle tooling system
- Sub-spindle

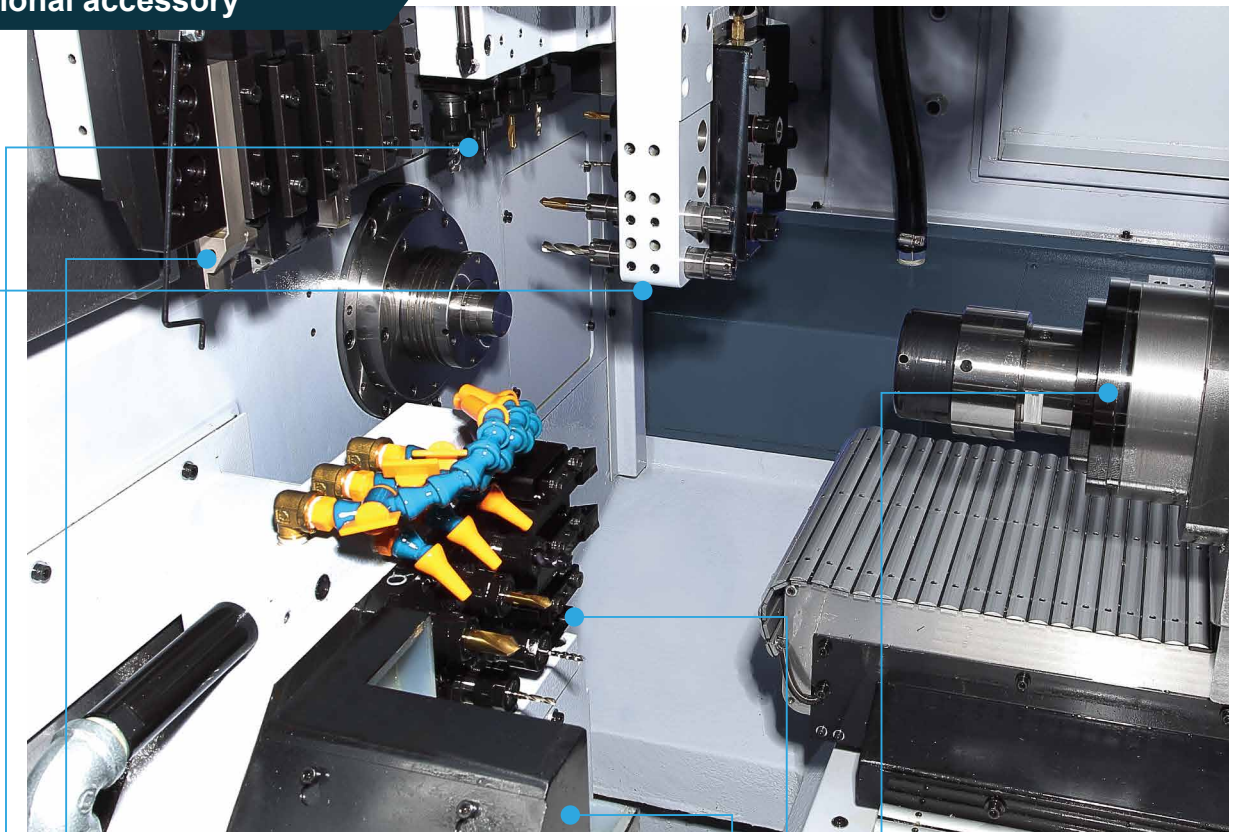


CNC SWISS TYPE LATHE

SS-51RBY



Optional accessory



System 1

- 5-position O.D tool holder
- 6-position cross drilling tool holder
- 5-position I.D tool holder

System 2

- Sub-spindle
- Sub-spindle tool system
- Parts catcher

CNC SWISS TYPE LATHE

SS-32RB/42RB



Sub-spindle tooling system

- The sub-spindle tooling system allows the machine to perform backside machining on a part.

SS-32RBY/42RBY



Sub-spindle tooling system - Y axis

- The sub-spindle tooling system allows the machine to perform backside machining on a workpiece.

SS-32RB/32RBY/42RB/42RBY



Cross/Face drilling function

- The side drilling unit can be converted to 3-position face drilling for main and sub spindle.
- Angle adjustment (manually)

SS-32RB/32RBY/42RB/42RBY



Fanuc 32i CNC control

- The control panel can be moved and swiveled for upgrading operating convenience.



Deep hole drilling device (Max. 135mm)

- The sub-spindle can be equipped with a deep hole drilling device with coolant through drill.



Rotary guide bushing holder

- For use in sliding head lathe to increase stability and surface finish for long part machining.

SS-51RBY



Simultaneously Rotary Guide Bushing Holder (4000PRM)

- Apply to sliding head more, increase the stability and the quality for long parts.

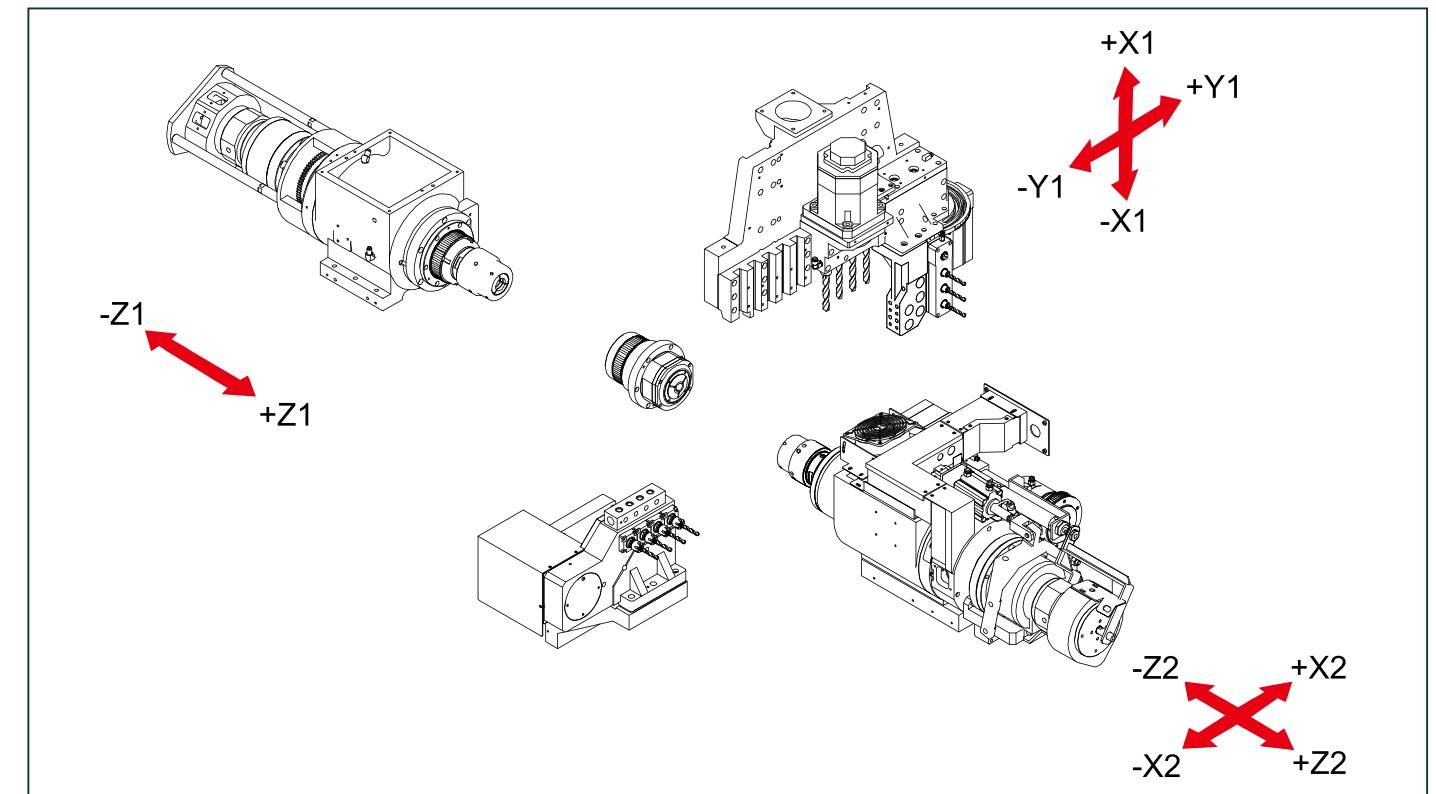


Non Guide Bushing Holder

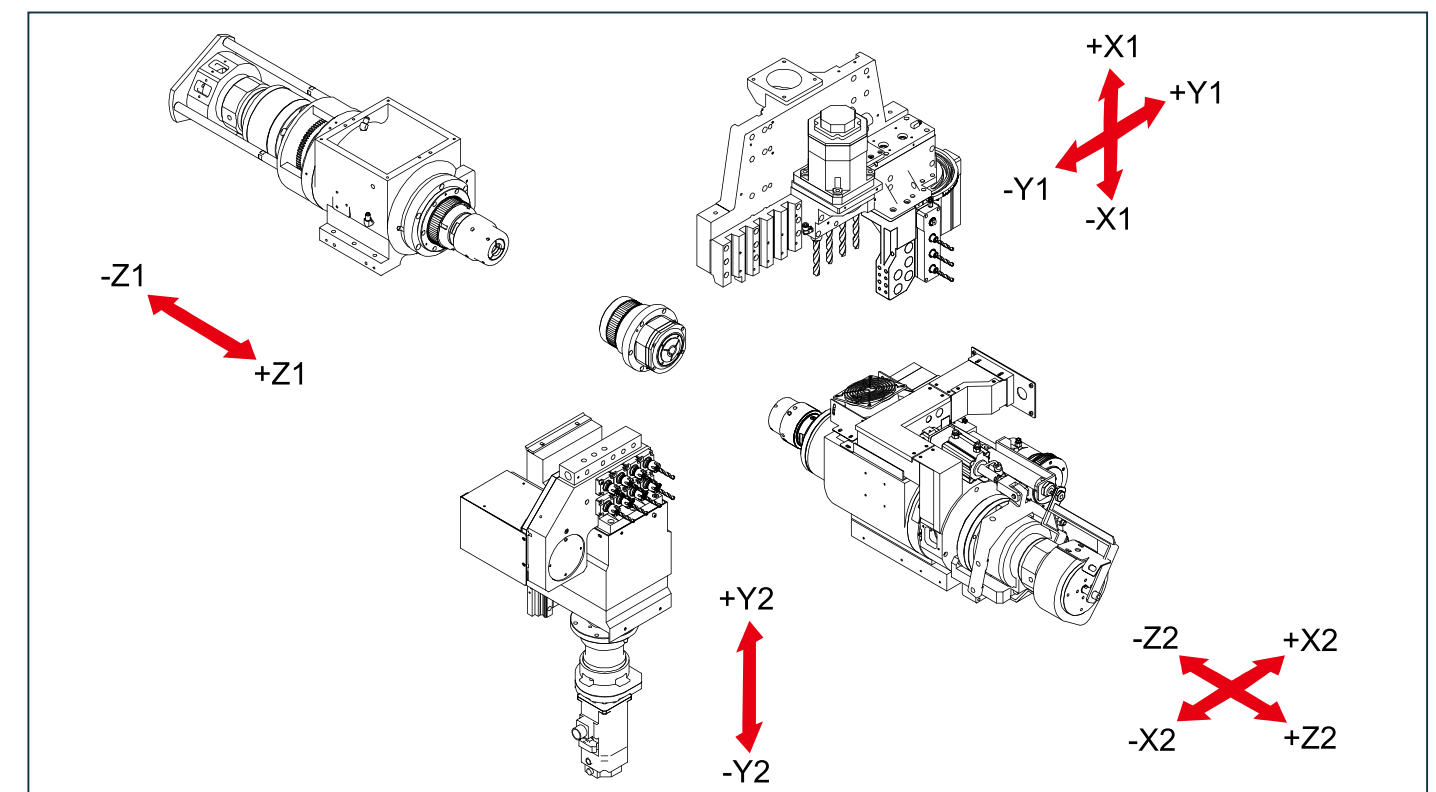
- For use in short parts and reduce rest bar.

Tooling system layout

SS-32RB/42RB



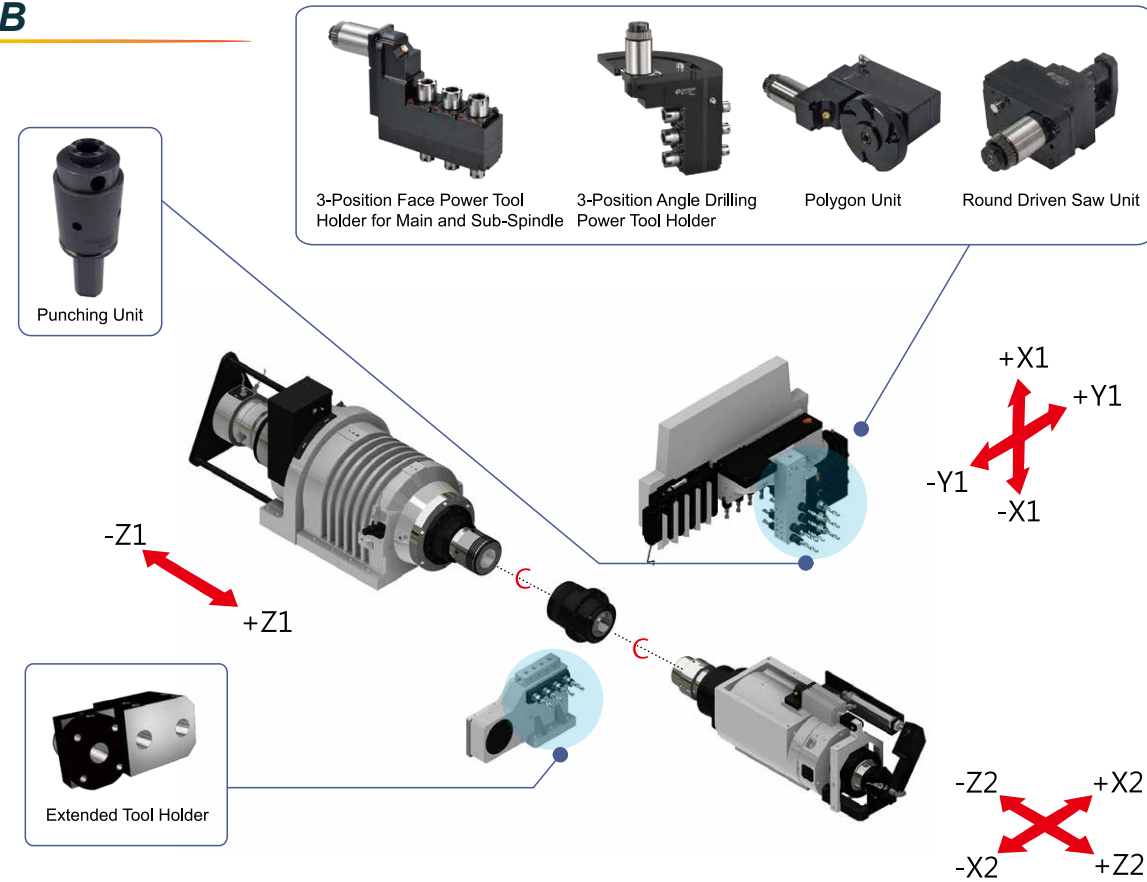
SS-32RBY/42RBY



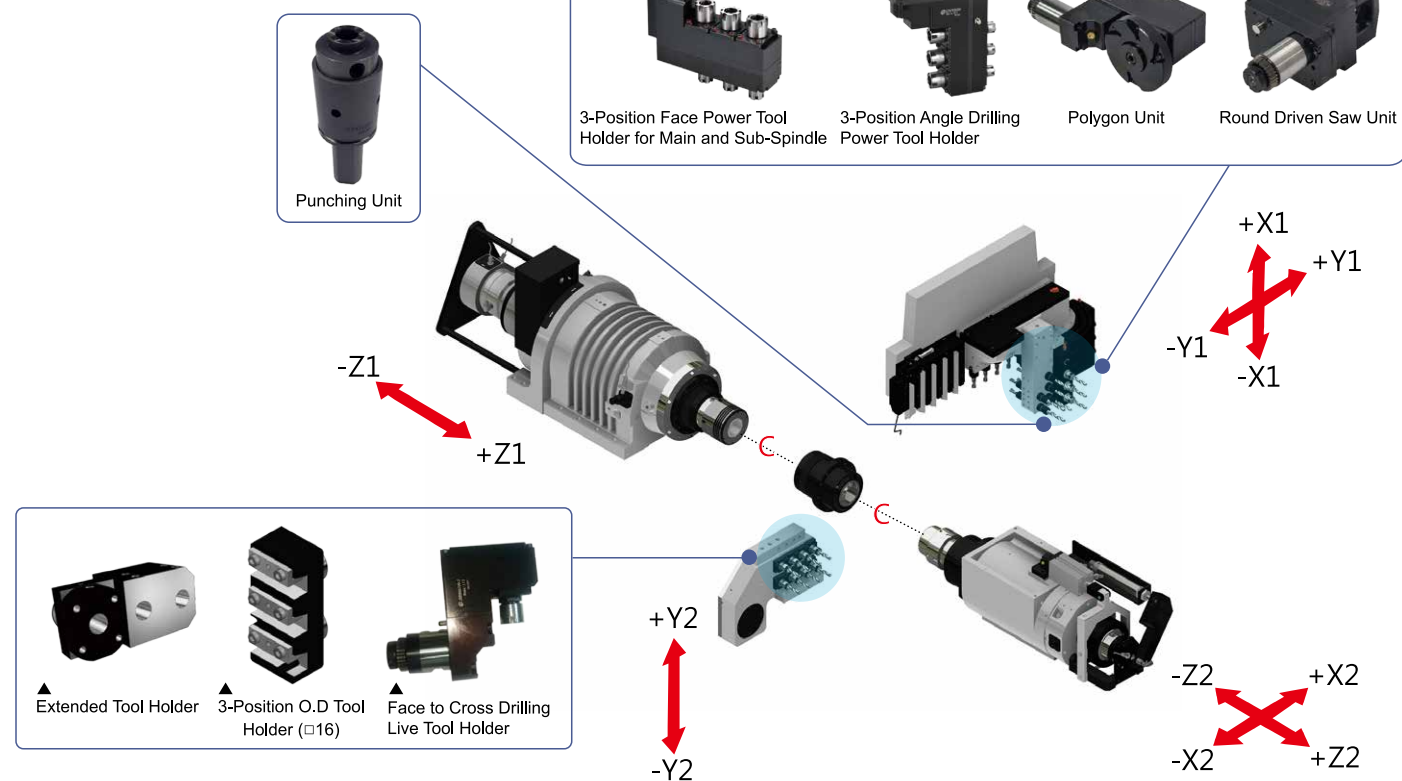
CNC SWISS TYPE LATHE

Tooling system layout

SS-51RB

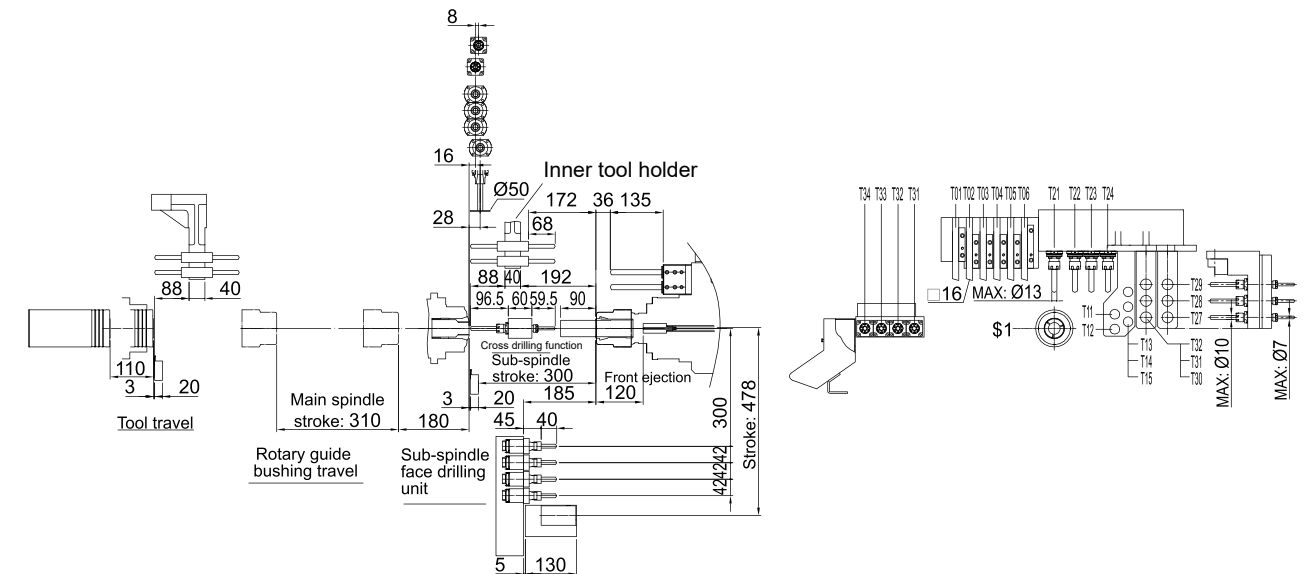


SS-51RBY

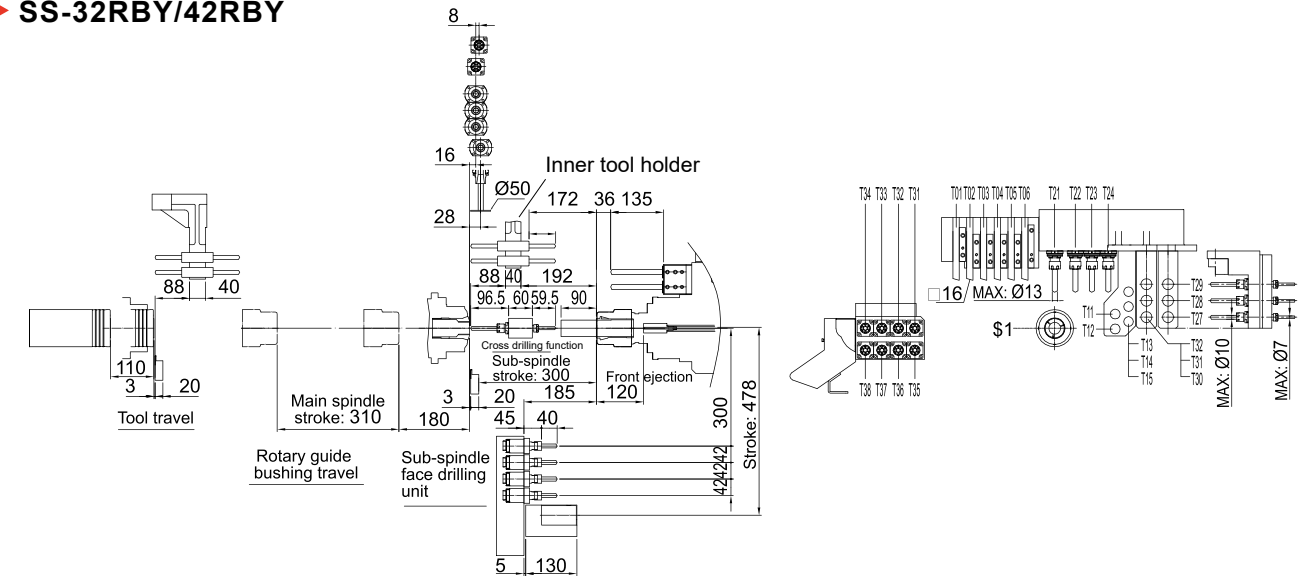


Tooling system layout

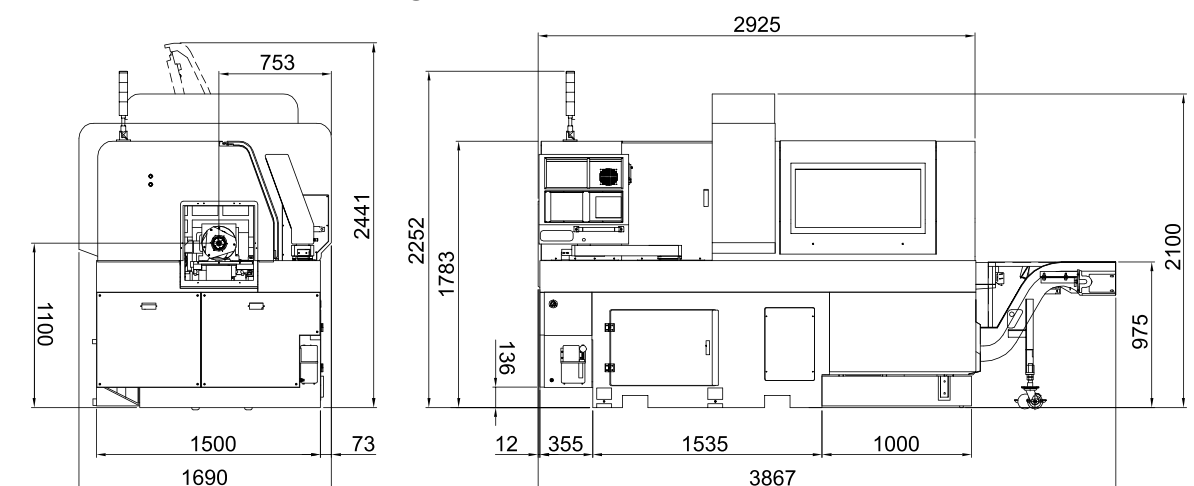
SS-32RB/42RB



SS-32RBY/42RBY



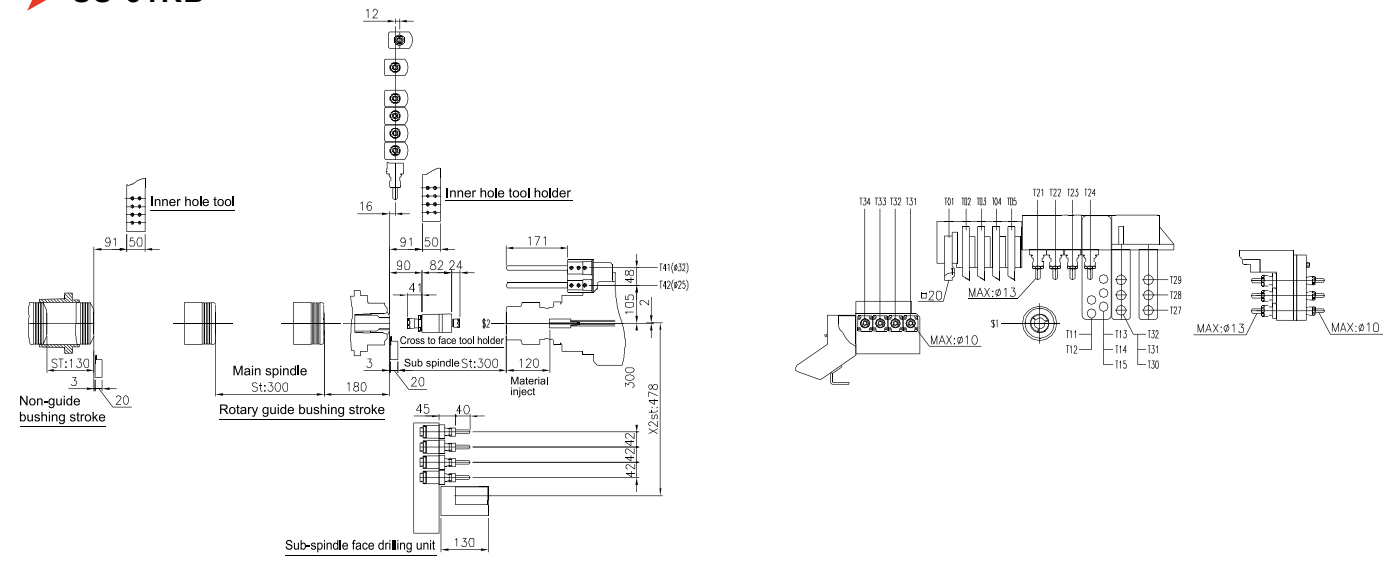
Dimensional machine drawing



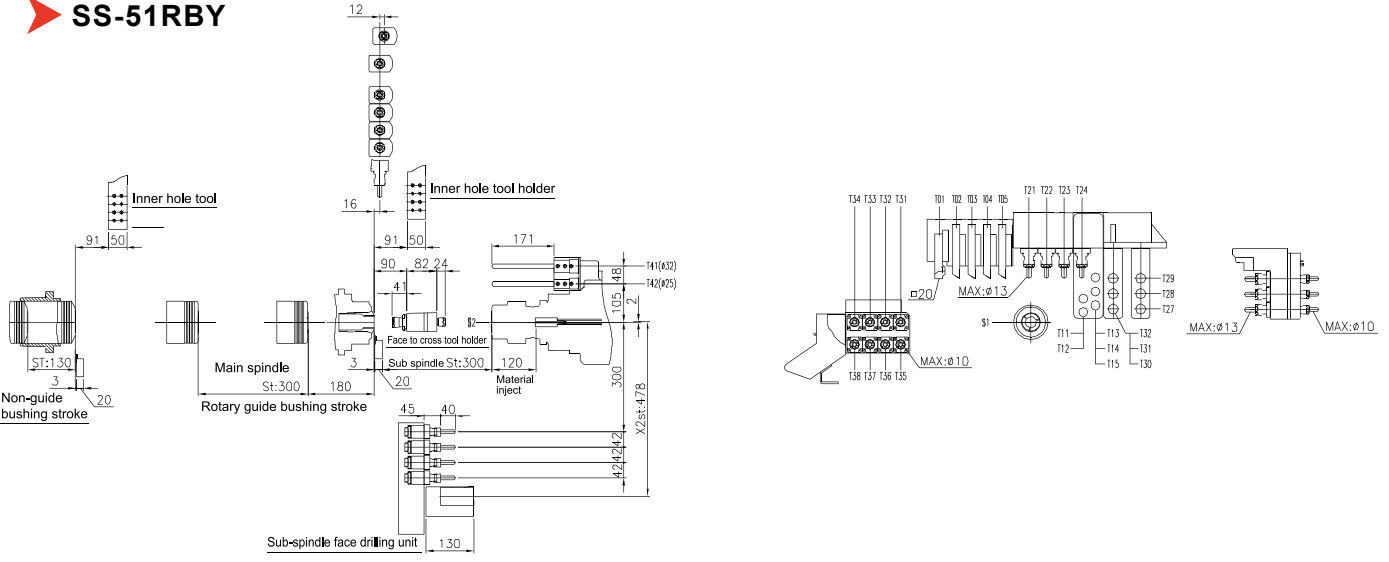
CNC SWISS TYPE LATHE

Tooling system layout

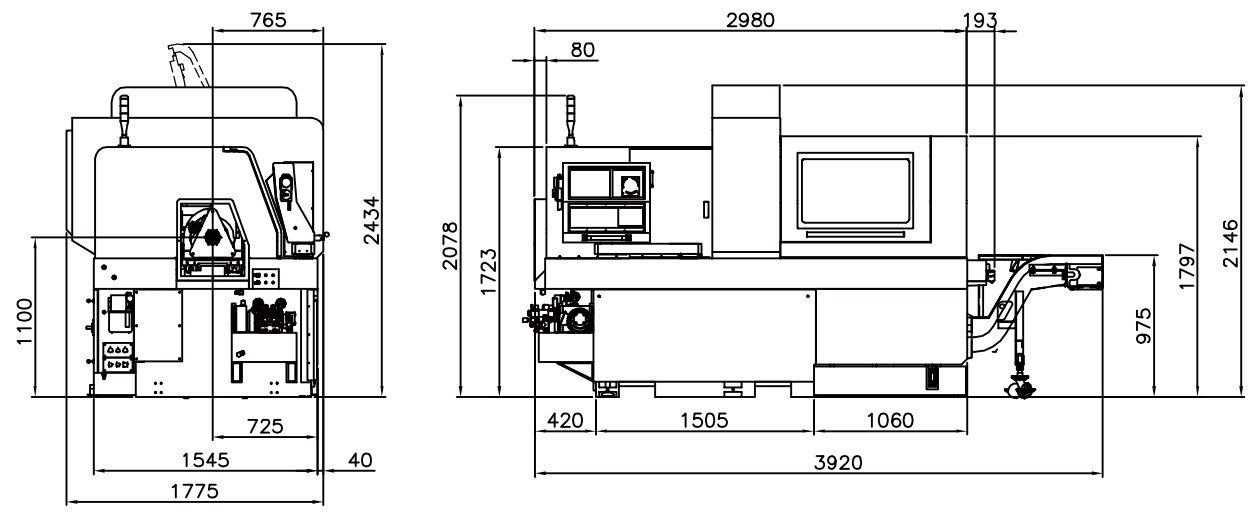
SS-51RB



SS-51RBY



Dimensional machine drawing



SS-32RB / 32RBY / 42RB / 42RBY / 51RB / 51RBY

Model	Unit	SS-32RB	SS-32RBY	SS-42RB	SS-42RBY	SS-51RB	SS-51RBY
Max. turning diameter of main spindle	mm	32		42		51	
Max. turning diameter of sub-spindle	mm	32		42		51	
Max. turning length (rotary guide bush)	mm		310			300	
Max. turning length (non-guide bush)	mm		105			130	
Max. turning length (fixed guide bush)	mm		350			non	
Max. drilling / tapping capacity of main spindle	mm		φ13/M10			φ26/M16	
Max. drilling / tapping capacity of sub-spindle	mm		φ10/M8			φ16/M12	
Max. cross drilling / tapping capacity	mm		φ10/M6			φ12/M10	
No. of external turning tools	pcs		6(□16)mm/5(□20mm)			5(□20mm)	
No. of internal turning tools	pcs		5/φ25mm			5/φ25mm	
No. of cross drillings of main spindle	pcs		6(ER-16x2&ER- 20x4)			6(ER-20)	
No. of face tool holder of sub-spindle	pcs	4	8	4	8	4	8
No. of axis controls	pcs	7	8	7	8	7	8
Main / sub-spindle bore	mm	φ34		φ44		φ52	
Max. speed of main / sub-spindle	rpm	7000		6000		4500	
X1/Z1/Y1/X2/Z2/Y2-axis rapid traverse	m/min		24			24	
Max. speed of main spindle cross drilling	rpm		4000			4000	
Main spindle cross tooling drive motor	kw		1.6			2.5	
Sub-spindle face tooling drive motor	kw		0.75			2.5	
Max. speed of sub-spindle face drill	rpm		4000			4000	
Main spindle motor	kw		5.5/7.5			11/15	
Sub-spindle motor	kw		5.5/7.5			7.5/11	
X1/Z1-axis motor	kw		1.4			2.5	
Y1/X2/Z2 motor	kw		0.75			2.5	
Y2-axis motor	kw	-	0.75	-	0.75	-	2.5
Coolant pump motor	kw		1.29			0.54	
Power requirement	kva		30			30	
Lubrication capacity	L		2			2	
Coolant tank capacity	L		250(100%)			250(100%)	
Machine dimensions (LxWxH)	mm		3106x1690x2100			3173x1695x2146	
Weight	kg	4900	4920	4900	4920	5450	5480

* Machine specifications are subject to change without prior notice.



CNC SWISS TYPE LATHE

Standard accessories	SS-32RB	SS-32RBY	SS-42RB	SS-42RBY	SS-51RB	SS-51RBY
External tool holder (6 tools)	○	○	○	○	○ (5 tools)	○ (5 tools)
Internal tool holder (5 tools)	○	○	○	○	○	○
Cross drilling tool holder (6 tools)	○	○	○	○	○	○
Parts catcher and conveyor	○	○	○	○	○	○
Tools and tool box	○	○	○	○	○	○
Lighting device	○	○	○	○	○	○
Fixed guide bushing holder	○	○	○	○	○	○
Main spindle servo motor	○	○	○	○	○	○
Main spindle C axis	○	○	○	○	○	○
Coolant device	○	○	○	○	○	○
Cutting coolant inspection (electronic type)	○	○	○	○	○	○
Cut-off inspection	○	○	○	○	○	○
Central lubrication unit	○	○	○	○	○	○
Sub-spindle C axis	○	○	○	○	○	○
Sub-spindle	○	○	○	○	○	○
Face drilling / milling tool holder (4 tools) for sub-spindle	○	-	○	-	○	-
Face drilling / milling tool holder (8 tools) for sub-spindle	-	○	-	○	-	○
Y2 axis	-	○	-	○	-	○
Fixed tool holder (sub-spindle)	2pcs	3pcs	2pcs	3pcs	2pcs	3pcs
Rotary tool holder (sub-spindle)	2pcs	3pcs	2pcs	3pcs	2pcs	3pcs
3 position OD tool holder □10 (sub-spindle)	-	1pcs	-	1pcs	-	1pcs
Chuck gripper	2pcs	2pcs	2pcs	2pcs	2pcs	2pcs
Machining room with safety lock	○	○	○	○	○	○
Guide bush	1pcs	1pcs	1pcs	1pcs	1pcs	1pcs
Spindle collet	2pcs	2pcs	2pcs	2pcs	2pcs	2pcs
Operation manual	○	○	○	○	○	○
NC operation manual	○	○	○	○	○	○
NC maintenance manual	○	○	○	○	○	○
Main and sub-spindle oil cooling system	○	○	○	○	○	○

Optional accessories for 32RB/RBY & 42RB/RBY

- Non guide bushing holder
- Simultaneous rotary guide bushing holder
- Stationary tool holder (sub-spindle) ER-16
- Rotary tool holder (sub-spindle) ER-16
- Whirling threading unit (without inserts and insert holder)
- High pressure coolant system 15/50/100 bars (with sub coolant tank)
- Hydraulic chuck for sub-spindle
- Power driven saw unit
- 3 position eccentric tool holder (main and sub-spindle)
- 3 position angle drilling tool holder (manual adjusting)
- 1 position cross live tool (sub-spindle)
- 1 position OD tool holder (sub-spindle)
- Ø16 ID tool holder shortened type (sub-spindle)
- Ø16 ID tool holder (sub-spindle)
- Extended ID tool holder for sub-spindle Ø16, 1-2
- Extended ID tool holder Ø16 (with one Ø16, 1-2 ID tool holder)
- ER 16 M2 double side inner tool holder
- ER 16/20 collet set
- Chip conveyor and cart
- Long parts catcher
- Cutting oil cooler
- Oil mist collector
- Voltage stabilizer
- Transformer
- Hydraulic bar feeder
- CE certification

Optional accessories for 51RB/RBY

- ER16 M2 double side collet shank
- Simultaneously rotary guide bushing holder
- Long parts catcher (Sub-spindle)
- Chip conveyor & cart
- ER16 collet set
- ER20 collet set
- Cutting oil chiller
- Stationary drilling tool holder (Sub-spindle)
- Power drilling tool holder (Sub-spindle)
- Oil mist collector
- Power saw unit (Spindle cross drilling tool)
- Power saw unit (Sub-spindle face drilling tool)
- 3-position eccentric tool holder (Main & sub-spindle)
- 3-position angle drilling tool holder (Manual)
- 1-position O.D tool holder (Sub-spindle)
- Ø16 Shortened type I.D tool holder (Sub-spindle)
- Ø16 I.D tool holder (Sub-spindle)
- Sub-spindle extended I.D tool holder Ø16 1-2
- Extended tool holder Ø16 (With one Ø16 1-2 I.D tool holder)
- High pressure coolant system 15/50/100 bars (With sub-coolant tank)
- Hydraulic bar feeder

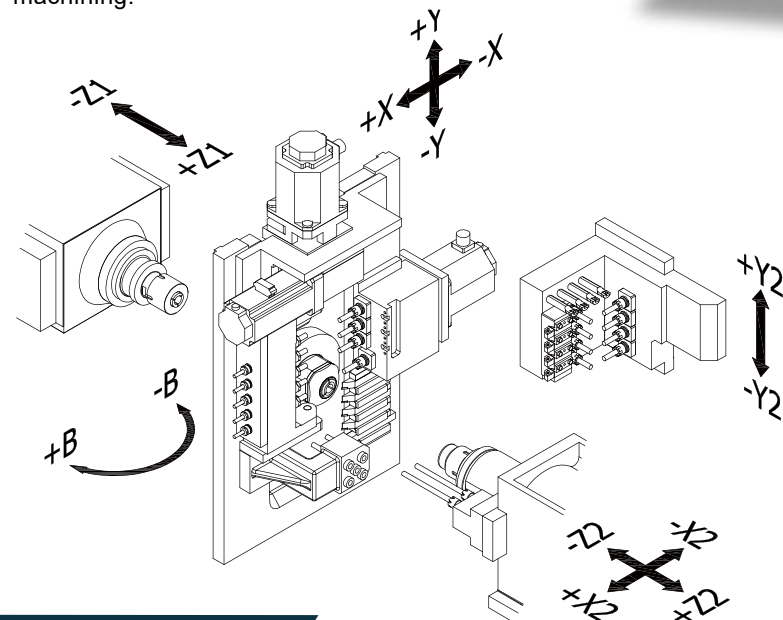


CNC SWISS TYPE LATHE

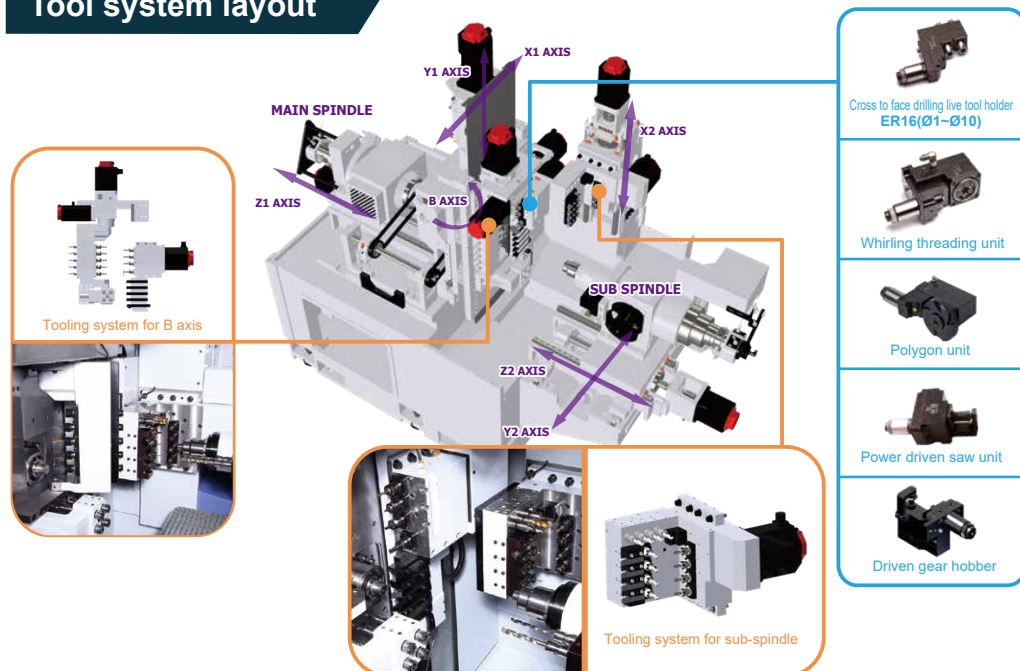
SS-26ABY / 32ABY

High rigidity and high accuracy Sliding head machine(Swiss type machine), with modularized tooling system. Complex working piece can be easier done by one machine and 20%~40% working time can be reduced.

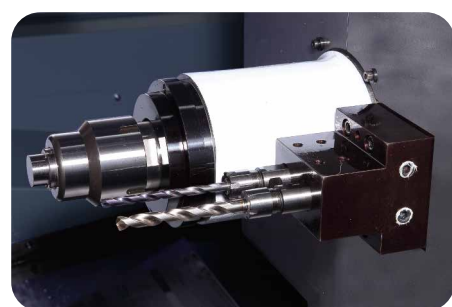
- ▶ Both guide bush mode and non guide bush mode are available according to customer's need.
- ▶ Both spindles are build-in motors.
- ▶ Both spindles are built with hydraulic clamping system.
- ▶ Customer can choose the most suitable tooling system machine according to works. Max. 21 tool positions can be installed for main spindle and max. 16 tool positions can be installed for sub-spindle.
- ▶ B axis(min. 0.001 degree) can help both main and sub-spindle to do multi-angle/surface precision machining.



Tool system layout



Tooling system for sub-spindle



Depth drill side sub-spindle

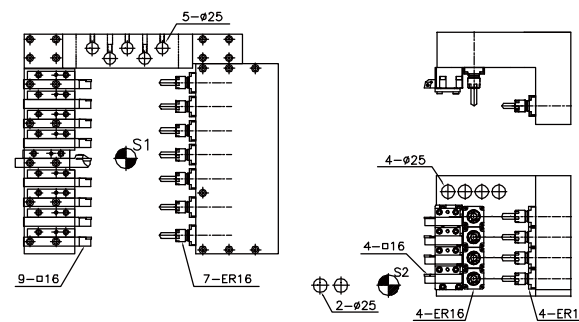


CNC CONTROLLER

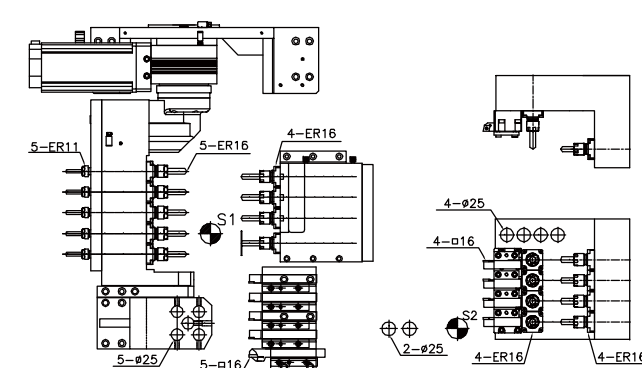
Tool sysytem layout

SS-26ABY

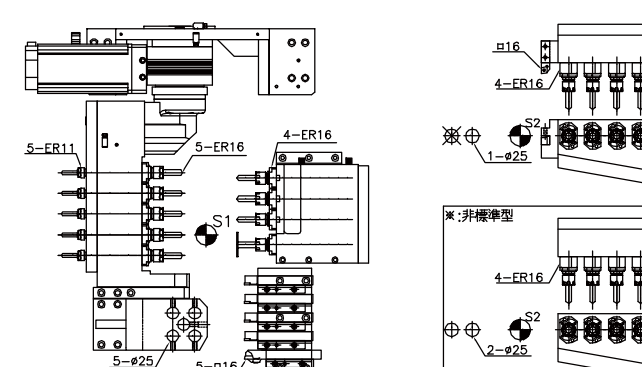
TYPE-A



TYPE-B



TYPE-CB



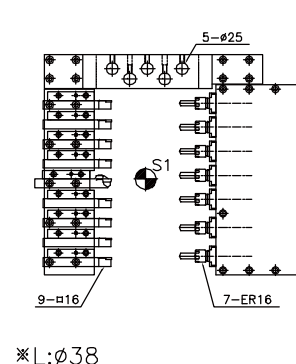
SS-26ABY

TYPE-C

SS-32ABY

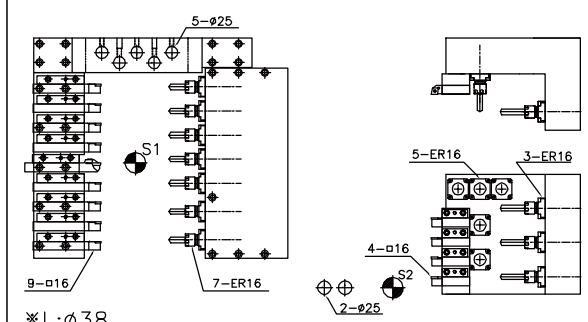
TYPE-C

TYPE-CL

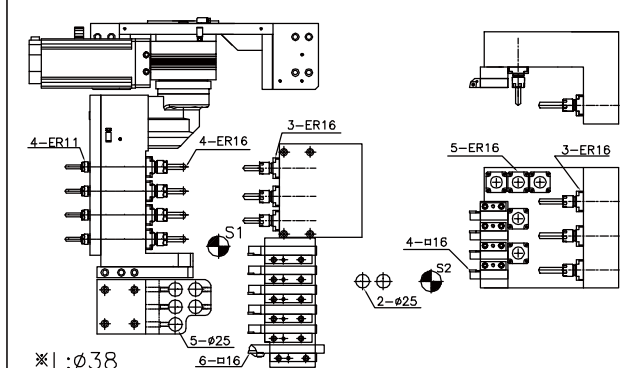


SS-32ABY

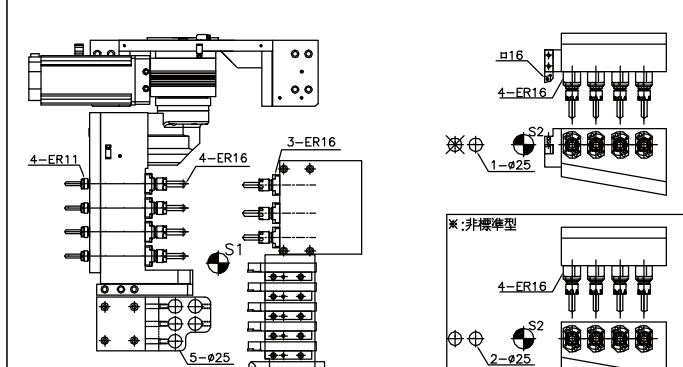
TYPE-A TYPE-AL



TYPE-B TYPE-BL



TYPE-CB TYPE-CBL



CNC SWISS TYPE LATHE

Standard accessory

	A	A(AL)	B	B(BL)	C	C(CL)	CB	CB(CBL)
	26#	32#	26#	32#	26#	32#	26#	32#
MAIN SPINDLE EXTERNAL TOOL HOLDER (9 TOOL)	•	•	-	-	•	•	-	-
MAIN SPINDLE EXTERNAL TOOL HOLDER (6 TOOL)	-	-	-	•	-	-	-	•
MAIN SPINDLE EXTERNAL TOOL HOLDER (5 TOOL)	-	-	•	-	-	-	•	-
INNER TOOL HOLDER (5 TOOL)	•	•	•	•	•	•	•	•
MAIN SPINDLE SIDE DRILLING TOOL HOLDER (7 TOOL)	•	•	-	-	•	•	-	-
MAIN SPINDLE SIDE DRILLING TOOL HOLDER (4 TOOL)	-	-	•	-	-	-	•	-
MAIN SPINDLE SIDE DRILLING TOOL HOLDER (3 TOOL)	-	-	-	•	-	-	-	•
B AXIS TOOL HOLDER(5 TOOL)	-	-	•	-	-	-	•	-
B AXIS TOOL HOLDER(4 TOOL)	-	-	-	•	-	-	-	•
SUB SPINDLE TOOLING SYSTEM(16 TOOL) (OD * 4 · ID * 4 · CROSS LIVE TOOL * 4 · FACE LIVE TOOL * 4)	•	-	•	-	-	-	-	-
SUB SPINDLE TOOLING SYSTEM(12 TOOL) (OD * 4 · CROSS LIVE TOOL * 3 · FACE LIVE TOOL * 5)	-	•	-	•	-	-	-	-
SUB SPINDLE TOOLING SYSTEM(4 TOOL) (OD * 1 · FACE LIVE TOOL * 4)	-	-	-	-	•	•	•	•
MAIN SPINDLE HYDRAULIC CYLINDER	•	•	•	•	•	•	•	•
SUB SPINDLE HYDRAULIC CYLINDER	•	•	•	•	•	•	•	•
MAIN SPINDLE C AXIS	•	•	•	•	•	•	•	•
SUB SPINDLE C AXIS	•	•	•	•	•	•	•	•
SPINDLE COLLET CHUCK	•	•	•	•	•	•	•	•
FIXED GUIDE BUSHING HOLDER	•	•	•	•	•	•	•	•
PARTS CATCHER & PARTS CONVEYOR	•	•	•	•	•	•	•	•
TOOL & TOOL BOX	•	•	•	•	•	•	•	•
LIGHTING DEVICE	•	•	•	•	•	•	•	•
CUTTING COOLANT DEVICE	•	•	•	•	•	•	•	•
LUBRICATION DEVICE	•	•	•	•	•	•	•	•
CUTTING COOLANT INSPECTION (ELECTRONIC TYPE)	•	•	•	•	•	•	•	•
CUT-OFF INSPETION	•	•	•	•	•	•	•	•
OPERATION MANUAL	•	•	•	•	•	•	•	•
NC OPERATION MANUAL	•	•	•	•	•	•	•	•
NC MAINTENANCE MANUAL	•	•	•	•	•	•	•	•

Optional accessory

3 POSITION FACE LIVE TOOL HOLDER FOR MAIN AND SUB SPINDLE	○	○	-	-	○	○	-	-
2 POSITION FACE LIVE TOOL HOLDER FOR MAIN AND SUB SPINDLE	○	○	○	○	○	○	○	○
3 POSITION ANGLE DRILLING TOOL HOLDER (MANUAL ADJUSTING)	○	○	-	-	○	○	-	-
WHIRLING THREADING UNIT (MAIN SPINDLE)	○	○	○	○	○	○	○	○
POLYGON MILLING UNIT(MAIN SPINDLE)	○	○	○	○	○	○	○	○
POWER DRIVEN SAW UNIT (MAIN SPINDLE)	○	○	○	○	○	○	○	○
GEAR HOBBING UNIT(MAIN SPINDLE)	○	○	○	○	○	○	○	○
STATIONARY TOOL HOLDER(SUB SPINDLE)	○	○	○	○	○	○	○	○
ROTARY TOOL HOLDER(SUB SPINDLE)	○	○	○	○	○	○	○	○
POWER DRIVEN SAW UNIT (SUB SPINDLE)	○	○	○	○	○	○	○	○
1 POSITION CROSS LIVE TOOL (SUB SPINDLE)	-	-	-	-	○	○	○	○

●:STANDARD ○:OPTION - :NON

※: SS-32ABY-AL 38#

- Handwheel Program Run
- Simultaneously Rotary Guide Bush Holder
- ER16 Collet Set(10 pcs.)
- Chip Conveyor & Cart
- Oil Mist Collector
- Non Guide Bush Holder
- Long Parts Catcher
- Voltage Stabilizer
- Cabinet Air Condition
- Coolant Chiller
- High Pressure Cooling System
- Barfeeder

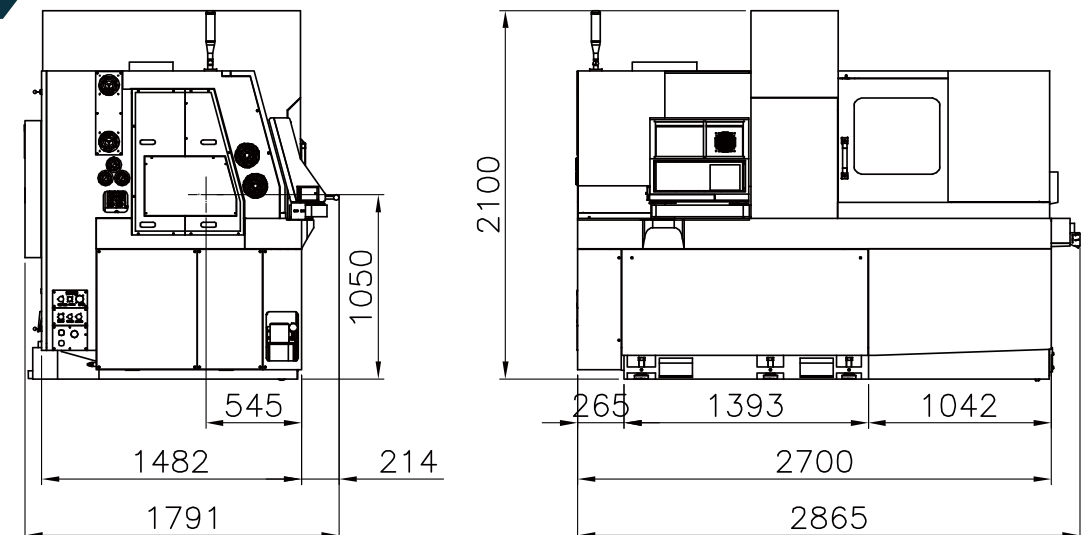
Specification

MODEL			Unit	SS-26ABY								SS-32ABY								
SYSTEM				S1				S2				S1				S2				
SPECIFICATION	TOOL NO.	TYPE		A	B	C	CB	A	B	C	CB	A(L)	B(L)	C(L)	CB(L)	A(L)	B(L)	C(L)	CB(L)	
		O.D. tool(□16)		9	5	9	5	4		1		9	6	9	6	4		1		
		I.D. tool(Ø25)		5				4				5								
		Cross tool(ER16)		7	4	7	4	4				7	3	7	3	3				
		B axis tool(ER16)			5		5						4		4					
		Face tool(ER16)						4								5		4		
		Depth drill(Ø25)						2								2				
	Bar capacity		mm	26								32								
	Max. drilling diameter		mm	13				10				13				10				
	Max. tapping size			M10				M8				M10				M8				
	Max. drilling diameter of live tool		mm	10																
	Max. tapping size of live tool			M8																
	Max. turning length (Collet open once)		mm	BUSH:260 NON-BUSH:100																
	LIVE TOOL	Max. speed of main spindle		rpm	8000								6000							
		Max. speed of sub spindle		rpm	8000								6000							
Max. speed of live tool		rpm	8000																	
Max. speed of B axis live tool		rpm	5000																	
AXIS	Spindle(Conti./Peak)		kw	2.5/5.5				2.2 / 3.7				2.5 / 5.5				2.2 / 5.5				
	X axis		kw	1.4				2.5				1.4				2.5				
	Y axis		kw	1.6				2.5		1.6				2.5						
	Z axis		kw	2.5				1.4				2.5				1.4				
	B axis		kw	2.5																
	Live tool		kw	2.5																
	Rapid traverse		m/min	30																
OTHERS	Coolant tank capacity		L	240 (100%)																
	Machine dimension (L x W x H)		mm	2865x1791x2100								2865x1791x2100								
	Weight		kg	4790								4890								

NOTE: SYMBOL(L) MEANS TYPE 38

*Our company reserves the right to change the specifications without notice.

Dimension



CNC SWISS TYPE LATHE

SS-42ABY



- * Max. turning diameter 42mm.
- * Both guide bush/ non guide bush are available for making complicated components.
- * With hydraulic chuck system on main spindle, it accepts poor tolerance bar to save the material cost.
- * Deep hole drilling on sub spindle side with central cooling system. It has both fixed and rotary type.
- * The tooling system has two Y-axis and C axis. In total, there are 37 tool holders and 19 of them are living tools.
- * Cross and face drilling function are available on main and sub spindle.
- * Built-in spindle with oil cooling system offers high efficiency, low noise and high accuracy environment.

Standard accessory

- Main system
 - Main spindle C axis
 - External tool holder (6 tool)
 - Internal tool holder (5 tool)
 - Cross drilling tool holder (4 tool)
- Sub system
 - Sub-spindle 5° multiple orientation
 - External tool holder (4 tool)
 - Internal tool holder (3 tool)
 - Aside cross drilling tool holder (4 tool)
- Parts catcher
- Tool and tool box
- Lighting device
- Cutting coolant
- Cutting coolant inspection
- Cut-off inspection
- Non guide bushing holder
- Main / sub-spindle hydraulic cylinder
- Central lubrication unit
- Operation manual
- Collet chuck

Optional accessory

- Simultaneously rotary guide bushing holder
- End-face eccentric rotary tool holder of main spindle (3 position)
- End-face eccentric rotary tool holder of sub-spindle (4 position)
- ◎*Sub-spindle aside rotary tool holder (4 position)
- Sub-spindle aside center cooling device for mark ◎ (1 position)
- Spindle cooling system
- Cutting oil cooler
- Chip conveyor and cart
- Oil mist collector
- Voltage stabilizer
- Transformer
- Hydraulic bar feeder
- CE certification

Sub-spindle end-face eccentric rotary tool holder (4-position)

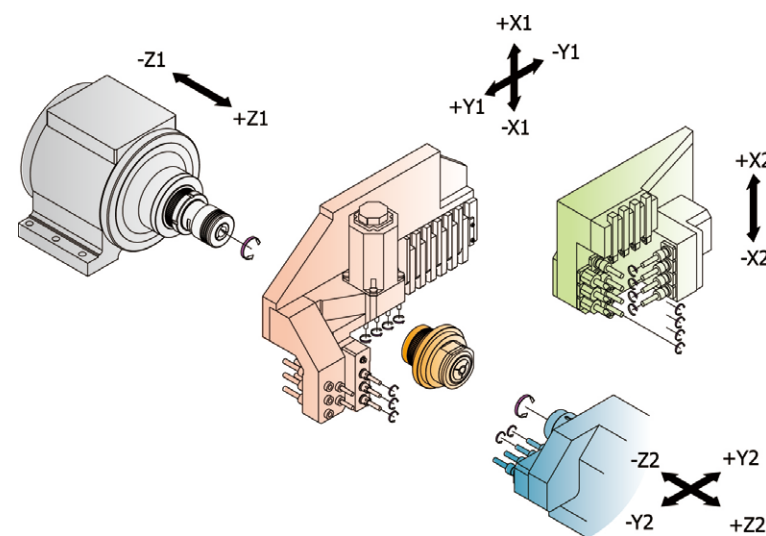


Tooling System

- Main spindle:
 - External tool holder : 6
 - Inner tool holder : 5
 - Main spindle end-face eccentric rotary tool holder (3-position)
 - Cross drilling tool holder : 4
- Sub-spindle:
 - Inner tool holder : 3
 - Cross drill tool holder : 4
 - External tool holder : 4

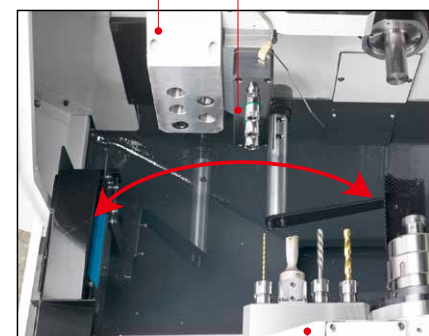
Model	Unit	SS-42ABY
Max. turning dia. of main spindle	mm	42
Max. turning dia. of sub-spindle	mm	42
Max. turning length	mm	Rotary guide bush: 200, Non guide bush: 125
Max. drilling capacity of main spindle	mm	30
Max. drilling capacity of sub-spindle	mm	30
Max. tapping capacity of main spindle	mm	M16
Max. tapping capacity of sub-spindle	mm	M16
Max. cross drilling capacity	mm	13
Max. cross tapping capacity	mm	M10
No. of external turning tools	pcs	6
No. of internal turning tools	pcs	5
No. of cross drillings	pcs	4(5)
No. of external turning tools of sub-spindle	pcs	4
No. of internal turning tools of sub-spindle	pcs	3
No. of cross drillings of sub-spindle	pcs	4
No. of face tool holder of sub-spindle	pcs	4
Tool size	mm	20x20x95~155
No. of axis controls	pcs	C1 / (C2) / X1 / Y1 / Z1 / X2 / Y2 / Z2
Main spindle bore	mm	58
Max. speed of main spindle	rpm	15~6000
Sub-spindle bore	mm	56
Max. speed of sub-spindle	rpm	15~6000
X / Z / Y-axis rapid traverse	m/min	18
Cross drilling speed of main spindle	rpm	4000
Face drilling speed of sub-spindle	rpm	3000
Main spindle motor	kw	7.5 (15)
Sub-spindle motor	kw	7.5
X1/Z1 motor	kw	1.6
Y1 motor	kw	1.4
Cross drilling motor of main spindle	kw	1.6
Face drilling motor of sub-spindle	kw	1.6
X2/Z2 motor	kw	1.4
Y2 motor	kw	1.4
Hydraulic motor	kw	0.75
Coolant pump motor	kw	2.3 x 2pcs
Power requirement	kw	40
Lubrication capacity	L	2
Coolant tank capacity	L	480
Machine dimensions	mm	3380 x 2455 x 2155
Weight	kg	7500

*Only one device is available on the machine.
S1: System 1 (Main spindle system)
S2: System 2 (Sub-spindle system)



Internal tool holder (5-tool)

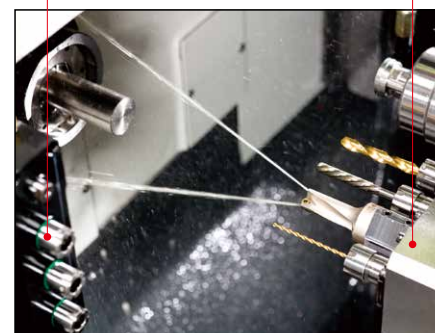
Main spindle end-face eccentric rotary tool holder (3-position)



Parts catcher

The parts catcher is at left side of spindles and it catches the part from sub spindle.

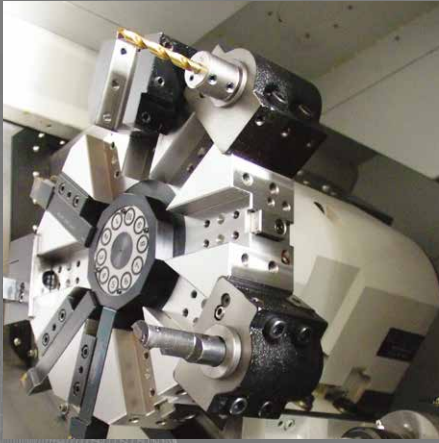
Main spindle end-face eccentric rotary tool holder (3-position)



* S2 aside stationary tool holder (4-position)

Sub Spindle Aside Drilling/ Milling

The four tool holder next to sub spindle can be equipped either stationary or rotary tool holders. One of the four tool holders can be equipped central cooling system to make deep hole drilling.

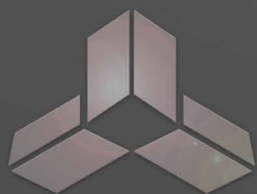


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Agents:

Note: To reserch and improve, our company keep the right of changing designs and specifications without further notice.