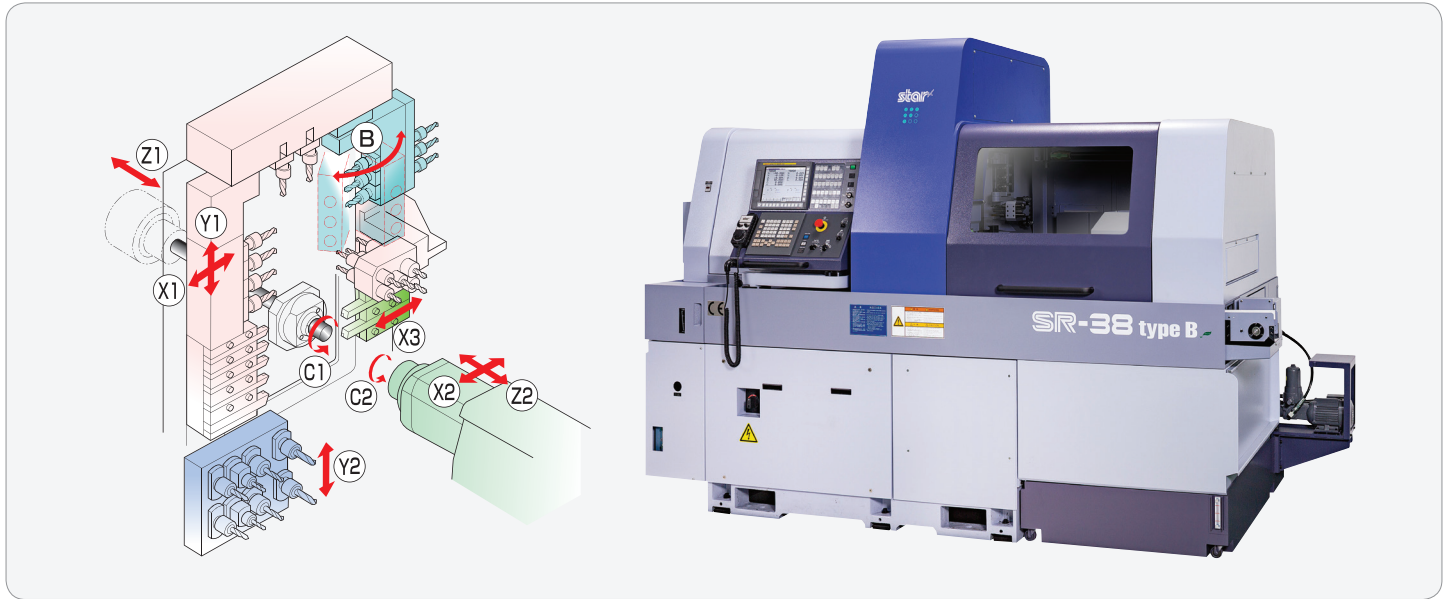


# SR-38 type A/B



CNC SWISS TYPE AUTOMATIC LATHE  
equipped with Star motion control system\*



Illustrated tool post (Type B)

## Complex Machines for Large Diameter Workpieces Now Aim for Higher Functionality, Productivity, and Accuracy

A highly functional model whose composition includes a balance-cut mechanism, two cartridge positions, angle adjustable power-driven tool unit, and eight-spindle back working unit for advanced complex machining.

### Improved Functions and Machining Capability

- » The rear tool holder of the portal-type tool post has an additional X3 control axis.
- » The Type A machine employs an angle adjustable power-driven tool unit, while the Type B variant employs a power-driven tool unit with B axis control function.
- » Each cartridge position can accommodate a variety of power tool units including a tool unit for slotting, polygon machining, etc. to enable diverse tooling layouts.
- » The open/close operation on the main collet is managed by a hydraulic rotation cylinder.

### Pursuit of High Productivity

- » Machining time is reduced by the balance-cut function through simultaneous control of the X1 and X3 axes.
- » The eight-spindle back working unit – which features a Y-axis control function – is mounted for an efficient process split between the front and rear sides as well as flexible overlap machining.

### Higher Accuracy and Rigidity

- » The portal-type tool post employs a uniform load cross guide structure to ensure high rigidity.
- » Both the main and sub spindles are built-in for improved spindle indexing accuracy.

### Enhanced Operability and Workability

- » The movable operation panel can be positioned to suit to the operator.
- » The spindle head stock chamber and cutting chamber use a trap door to ensure a wide opening and accessible work space.

\* type B



STAR Environmental Standards Conformity models

“Provides dynamic and powerful equipment to meet today’s manufacturing needs.”

## Standard Machine Specifications

OP: Option

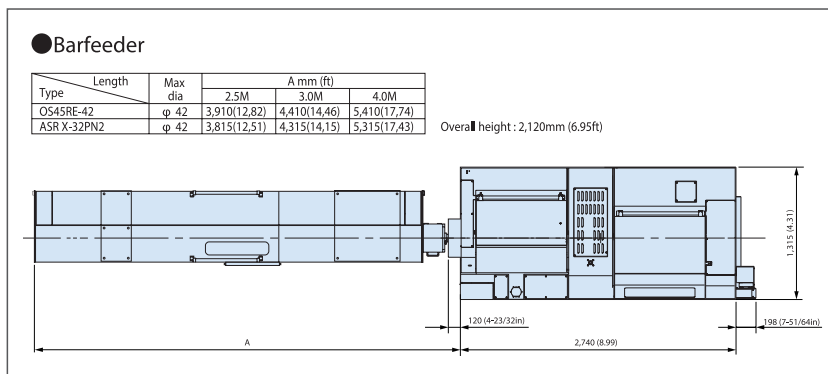
Item	Specifications	
Max. machining diameter	φ 38mm(1-1/2in)	
Max. headstock	With R.G.B. unit 320mm(12-19/32in)	
stroke	With R.M.G.B. unit 288mm(11/32in) : OP	
Tool	5 tools on the front(stationary type)+2 tools on the rear(X3 axis control)	
4-Spindle sleeve holder	Number of tools	
		Front 5 tools
		Rear 5 tools
	Max. drilling capability	φ 23mm(29/32in)
	Max. tapping capability	M16×P2.0
Power driven attachment	Number of tools	Cross milling : 4 tools
		Cartridge type : At 2 position
	Number of tools (type A)	Angle adjustable power-driven tool : At 1 position (Front 3 tools +Rear 3 tools )
	Number of tools (type B)	B-axis controlled power-driven tool unit: At 1 position (Front 3 tools+Rear 3 tools)
	Max. drilling capability	φ 10mm(25/64in)
	Max. tapping capability	M8×P1.25
	Spindle speed	Max.6,000min <sup>-1</sup>
Drive motor	2.2kw	
Rapid feed rate	36m/min(X1,Y1,Z1,X2,Z2), 24m/min(Y2,X3)	
Main spindle indexing angle	C-axis control	
Main spindle speed	Max.7,000min <sup>-1</sup>	
Main spindle motor	7.5kw(continuous) / 11kw(10min./25%ED)	
Coolant tank capability	253 ℓ	
Dimensions (W×D×H)	2,740×1,315×2,120mm	
Weight	4,300kg	
Power consumption	15.9 KVA	

## Backworking Attachment Specifications

Item	Specifications	
Max. chucking diameter	φ 38mm(1-1/2in)	
Max. length for front ejection	150mm (5-7/8in)	
Max. parts projection length	70mm(2-3/4in)	
	Number of tools	
	8 tools	
Back 8-Spindle unit	Max. drilling capability	Stationary tool φ 14mm(35/64in)
		Power driven tool 8 tools
	Max. tapping capability	Stationary tool M12×P1.75
		Power driven tool M6×P1.0
Power-driven att. spindle speed	Max.6,000min <sup>-1</sup>	
Power-driven att. drive motor	1.0kw	
Sub spindle indexing angle	C-axis control	
Sub spindle speed	Max.7,000min <sup>-1</sup>	
Sub spindle motor	3.7kw(continuous) / 5.5kw(10min./40%ED)	

## External Dimensions

unit: mm(ft)



## Standard Accessories and Functions

- CNC unit FANUC 31i-B (typeA)  
CNC unit FANUC 31i-B5 (typeB)
- Operation panel 10.4-inch color LCD display
- Pneumatic unit
- Hydraulic unit
- Automatic centralized lubrication unit
- Coolant level detector
- Door interlock system
- Broken cutoff tool detector
- Drive unit for revolving guide bush
- Revolving guide bush unit
- Main / Sub collet
- C-axis control (Main / Sub)
- Spindle clamp unit (main/sub)
- 5-station tool holder □16/20mm
- 2 tool holder □16mm
- 5-spindle sleeve holder
- Main tool post tool rotation drive unit
- Cross milling tool unit (4-tool type)
- Angle adjustable three spindle opposing unit (Type A)
- 3-spindle opposing unit with B axis control (Type B)
- Back working attachment
- 8-spindle back working unit with Y axis control function
- 8-spindle back working unit power tool drive
- Parts conveyor
- Air purge for revolving guide bush
- Air purge for sub spindle
- Work light
- Leakage breaker

## Optional Accessories and Functions

- Coolant flow detector
- Parts ejection detector
- Water removal unit
- Beacon
- Chip conveyor
- Rotary magic guide bush unit
- For pneumatic unit rotary magic guide bush
- Main spindle inner tube
- Parts ejector (Air cylinder type)
- Parts ejector (Spring type)
- Parts ejector with guide tube
- Parts stopper unit
- Coolant unit (6.9MPa / 2.5MPa / 0.7MPa)
- Coolant unit signal cable
- Coolant unit power cable
- Coolant valve (6.9MPa / 2.5MPa)
- Coolant pipings
- Automatic bar feeder interface
- Compliant with the RS-232C interface
- LAN interface
- Transformer CE marking version
- Transformer CE marking cable
- CE marking version

Note)

The machining capacities apply to SUS303 material. The machining capacities may differ from listed values depending on the machining conditions, such as the material to be machined or the tools to be used.

※Design features, specifications and technical execution are subject to change without prior notice.

※This product is an export control item subject to the foreign exchange and foreign trade laws. Thus, before exporting this product, or taking it overseas, contact your STAR MICRONICS dealer.