



* The above schematic shows a guide bush type.

The Latest SW Model Heading for the Highest capability in Machining of Small Diameter Workpieces

These developments provide:

» Reduced cycle times » Reduced change over times » Switchable from guide bush to none guide bush system » Provides enhanced production output, greater functionality and even greater accuracy

Improved Productivity

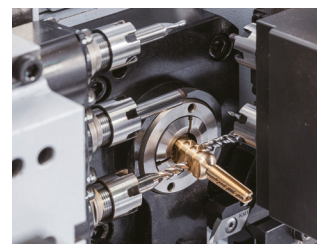
- » The opposing gang-type tool post is independently controlled and allows various types of simultaneous machining.
- » The tool post especially designed for the back 8-spindle unit with Y-axis control function achieves efficient overlapped machining on the front/rear sides.
- » The Star Motion Control System drastically reduces idle time.

Realization of Higher Functionality

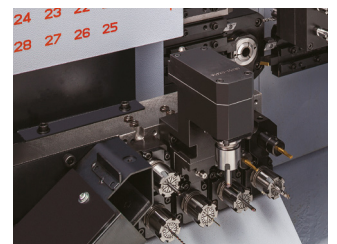
- » The gang-type tool post can accommodate a variety of power tool units for enhanced complex machining capabilities.
- » The tool post designed for the back 8-spindle unit with Y-axis control function strengthens complex machining capabilities on the rear side.
- » The guide bush and non-guide bush types can be switched over depending on the total workpiece length, and drastically reduces remnant material lengths.

Pursuing Higher Accuracy

- » The Star Motion Control System eliminates machine vibration by controlling the smooth spindle movement.
- » The built-in type main and sub spindles achieve improved indexing accuracy.



Reduced cutting time by simultaneous machining
Independently controlled opposing gang-type tool post



Upgraded complex machining capabilities on the rear side
Back 8-spindle unit with Y-axis control function

A combination of the opposing gang-type tool post and the tool post designed for back 8-spindle unit with Y-axis control function eases quick and flexible machining of complicated parts.

Thread whirling, angular hole drilling, polygon processing, hobbing and more for a diverse range of tooling layout



Standard Machine Specifications

Item	Specifications	
Max. machining diameter	φ 13mm (33/64in)	
Max. headstock stroke	G.B.type	135mm (5-5/16in)
	N.G.B.type	30mm (1-3/16in)
Tool post configuration	Front	Turning tool+Power-driven tool
	Rear	Turning tool+4-spindle sleeve holder+Power-driven tool
Tool	Number of tools	5 tools
	Rear	2 tools
Tool shank	□10mm	
4-Spindle sleeve holder	Number of tools	Front 4 tools
		Rear 4 tools
	Max. drilling capability	φ8mm (5/16in)
	Max. tapping capability	M8×P1.25
Power driven att.	Number of tools	Front 3pos.
	Rear	3pos.
	Max. drilling capability	φ5mm (3/16in)
	Max. tapping capability	M4×P0.7
	Spindle speed	Max.12,000min ⁻¹
	Drive motor	1.0kw(continuous)/1.2kw(5min./30%ED)
Rapid feed rate	35m/min(X2, Y1, Y3, Z1, Z2)	
	24m/min(X1, X3), 15m/min(Y2)	
Main spindle indexing angle	C-axis control	
Main spindle speed	Max.15,000min ⁻¹	
Main spindle motor	2.2kw(continuous)/3.7kw(10min./25%ED)	
Coolant tank capacity	139ℓ	
Dimensions (W×D×H)	1,995×920×1,700mm	
Center height	1,060mm	
Weight	2,100kg	
Power consumption	4.4KVA	
A-weighted sound pressure : note-1	79dB	

Standard Accessories and Functions

- CNC unit FANUC 31i-B5
- Operation panel 10.4-inch color LCD display
- Pneumatic unit
- Automatic centralized lubrication unit
- Coolant level detector
- Door interlock system
- Broken cut-off tool detector
- Parts ejection detector
- Drive unit for revolving guide bush
- Revolving guide bush unit
- Cs contouring control (main/sub)
- Spindle clamp unit (main/sub)
- Main/Sub collet
- 5-station tool holder □10mm
- 2-station tool holder □10mm
- Drive unit for power-driven attachment (front/rear)
- 4-spindle sleeve holder
- Back 8-spindle unit with Y axis control function
- Drive unit for power-driven attachment B
- Air purge unit for revolving guide bush
- Sub spindle air purge unit
- Automatic bar feeder interface
- RS-232C interface
- Work light
- Leakage breaker

Optional Accessories and Functions

- Coolant flow detector
- Water removal unit
- Beacon
- Rotary magic guide bush unit
- For pneumatic unit rotary magic guide bush
- Guide bush mount
- Parts conveyor
- Parts receptacle
- Parts separator unit A
- Main spindle inner tube
- Sub spindle air blow unit
- Parts ejector (Spring type)
- Parts ejector (Spring type rotary ver.)
- Parts ejector (Air cylinder 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
- Coolant pipings
- Transformer
- Transformer CE marking version
- Cable for CE marking version
- CE marking version -

Backworking Attachment Specifications OP: Options

Item	Specifications	
Max. chucking diameter	φ 13mm (33/64in)	
Max. length for front ejection	80mm (3-5/32in)	
Max. parts projection length	20mm (25/32in)	
Back	Number of stationary tool	Max. 8 tools
	Power driven tool	Max. 8 tools
8-Spindle unit	Max. drilling capability	Stationary tool φ8mm (5/16in)
		Power driven tool φ5mm (3/16in)
	Max. tapping capability	Stationary tool M6×P1.0
	Power driven tool	M4×P0.7
Power-driven att. spindle speed	Max.12,000min ⁻¹	
Power-driven att. drive motor	1.0kw(continuous)/1.2kw(5min./30%ED)	
Sub spindle indexing angle	C-axis control	
Sub spindle speed	Max.15,000min ⁻¹	
Sub spindle motor	2.2kw(continuous)/3.7kw(10min./25%ED)	

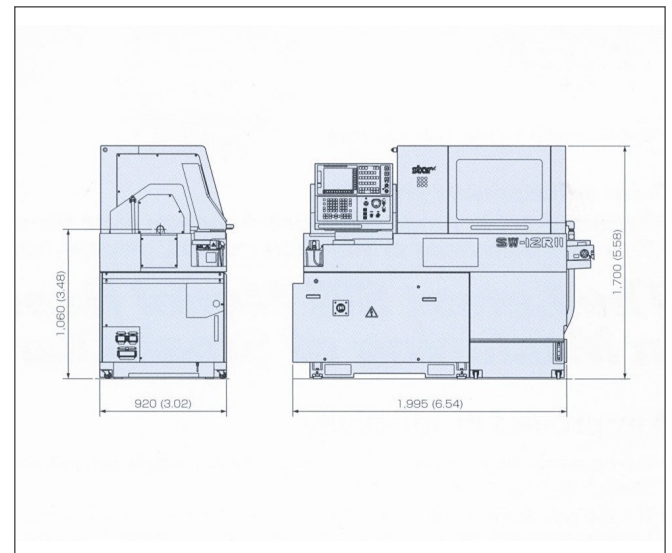
Note)

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.

- note-1 : ● Measures conforming to ISO standard.
● A-weighted sound pressure is a general assessment standard characteristic that corrected the sound level to human acoustic sense.

External Dimensions

unit: mm(ft)



*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.

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