A 10 Station Turret equipped with a B-axis control function is employed. *

SWISS TYPE AUTOMATIC LATHE
equipped with star motion control system

The guide bush type and non-guide bush type are interchangeable according to the total length of the workpiece.

SV-38R type A/B

* Function for Type B Only

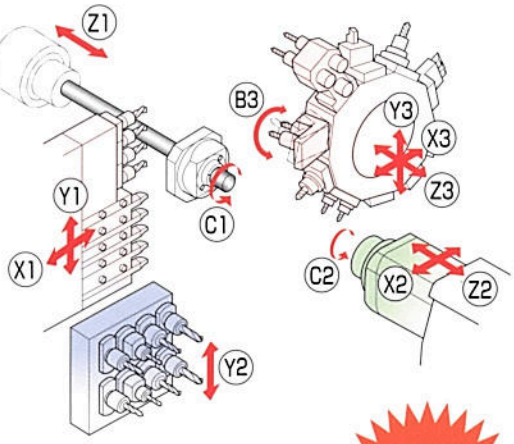


Illustration of tool layout :
Type B tool post (guide bush type)

NEW MODEL

The Innovative SV-R Series Designed to Improve capability and Outperform Conventional Models

The turret-type tool post (*) with B-axis control function, and the rear housing tool post(with Y-axis control function) are especially designed for backworking, etc. and to enhance functions and complete components quickly in one operation (Type B has both options).

* type B

❶ Improved Functions and Machining Capability

- The turret-type tool post can accommodate a 2-spindle type power tool unit with the B-axis control function at a maximum of 5 positions. (Type B)
- The tool post for backworking has an 8-spindle unit with the Y-axis control as standard equipment and can accommodate a power tool unit at a maximum of 6 positions.
- A wide variety of tooling layouts can be configured using the 27 available positions for mounting tools.
- The motors for both the main/sub spindles and gang-type tool post have increased power. (*1)

❷ Higher Accuracy and Rigidity

- The guide bush and non-guide bush type are interchangeable. The non-guide bush type incorporates a spindle sleeve slide guideway structure for higher spindle rigidity.
- Built-in motors for the main and sub spindles improve indexing accuracy.

❸ Reduced Machining Time

- The Star Motion Control System ensures a smooth, uninterrupted tool path.
- The 8-spindle backworking unit with the Y-axis control function allows efficient main/back overlap machining.
- The combination of the gang-type tool post and the turret tool post enables turning, milling and others operations simultaneously for reduction of the cycle time.

	Motion control	Y2-axis control	B-axis control	Non-guide bush type
Type A	●	●	–	●
Type B	●	●	●	●

Gang edge+10-position turret+Backworking tool post

The above configuration of the tool post features enables enhanced capability to allow complex machining with the appropriate number of tools.

ECO

STAR Environmental Standards Conformity models

SWISS TYPE AUTOMATIC LATHE
equipped with star motion control system

SV-38R type A/B

■ Standard Machine Specifications

OP : Option

Item			Specifications
Max. machining diameter			φ38mm (1-1/2in)
Max. headstock stroke	Standard		350mm (13-25/32in)
	R.M.G.B. type		315mm (12-13/32in) : OP
	N.G.B. type		Bar diameter×2.5(Max.95mm) (Max.3-47/64in)
Tool post configuration		Gang type	Turning tool + Power-driven tool
		Turret type	10 stations
Tool	Number of tools	Gang type	5 tools (□20mm×1 tools+□16mm×4 tools)
		Turret type	1tool/station(□20mm),Max.2tools /station(□16mm)
Sleeve	Number of tools		Max.3tools/station
	Max. drilling capability		φ23mm (29/32in)
	Max. tapping capability		M16×P2.0
Power driven att.	Number of tools	Gang type	4 tools
		Turret type	Max.2tools/station(mountable at each 10 positions)
	Max.drilling capability	Gang type	φ10mm (25/64in)
		Turret type	φ10mm (25/64in)
	Max. tapping capability	Gang type	M8×P1.25
		Turret type	M8×P1.25
	Spindle speed	Gang type	Max.5,000min-1
		Turret type	Max.5,700min-1
	Drive motor	Gang type	1.2kw(continuous)/2.2kw(5min./30%ED)
		Turret type	2.7kw(continuous)/4.0kw(5min./30%ED)
Rapid feed rate			30m/min (X1,X2,X3,Y1,Z1,Z2,Z3)
			20m/min (Y2) 、15m/min (Y3)
Main spindle indexing angle			C-axis control
Main spindle speed			Max.7,000min-1
Main spindle motor			7.5kw(continuous)/11kw(10min./25%ED)
Coolant tank capability			212ℓ
Dimensions (W×D×H)			3,420×1,440×1,865mm
Center height			1,125mm
Weight			4,300kg
Power consumption			9.5KVA

■ Backworking Attachment Specifications

Item			Specifications
Max. chucking diameter			φ38mm (1-1/2in)
Max. length for front ejection			150mm (5-7/8in)
Max. parts projection length			75mm (2-61/64in)
Back 8-Spindle unit	Number of tools	Stationary tool	8 tools
		Power driven tool	Max.6 tools
	Max. drilling capability	Stationary tool	φ16mm (5/8in)
		Power driven tool	φ10mm (25/64in)
	Max. tapping capability	Stationary tool	M12×P1.75
		Power driven tool	M8×P1.25
Power-driven att. spindle speed			Max.5,000min-1
Power-driven att. drive motor			1.2kw(continuous)/2.2kw(5min./30%ED)
Sub spindle indexing angle			C-axis control
Sub spindle speed			Max.7,000min-1
Sub spindle speed control			AC spindle drive
Sub spindle motor			0.55kw(continuous)/7.5kw(10min./40%ED)

■ Standard Accessories and Functions

1. CNC unit FANUC 31i-B5
2. Operation panel 10.4-inch color LCD display
3. Hydraulic unit
4. Pneumatic unit
5. Automatic centralized lubrication unit
6. Coolant level detector
7. Door interlock system
8. Broken cutoff tool detector
9. Drive unit for revolving guide bush
10. Revolving guide bush unit
11. Main/Sub collet
12. C-axis control (Main/Sub)
13. Spindle clamp unit (Main/Sub)
14. 5-station tool holder
15. Turret-type tool post with B-axis control (type B)
16. Drive system for power-driven attachment (Gang/Turret)
17. Back 8-Spindle unit
18. Y-axis control for back-working tool post
19. Drive system for power-driven attachment B (Back 8-spindle unit)
20. Air purge for revolving guide bush
21. Sub spindle air purge unit
22. Sub spindle air blow (for pipe discharge)
23. Parts conveyor
24. Automatic bar feeder interface
25. Work light
26. Leakage breaker

■ Optional Accessories and Functions

1. Coolant flow detector
2. Parts ejection detector
3. Water removal unit
4. Beacon
5. Non-guide bush type
6. Main spindle inner tube
7. Rotary magic guide bush unit
8. For pneumatic unit rotary magic guide bush
9. Parts ejector (Air cylinder type)
10. Parts ejector (Spring type)
11. Parts ejector with guide tube
12. Parts stopper unit
13. Coolant unit (6.9MPa/2.5MPa/0.7MPa)
14. Coolant unit signal cable
15. Coolant unit power cable
16. Coolant valve
17. Coolant pipings
18. Manual pulse generator
19. Transformer CE marking version
20. Tool presetter

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.

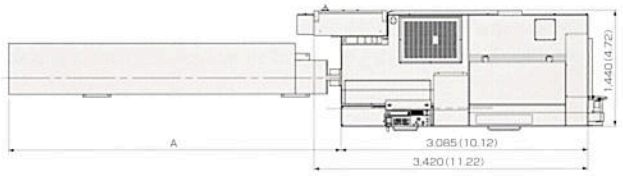
■ External Dimensions and Floor Space

unit : mm(ft)

● Barfeeder

Type \ Length	Max. Bar dia.	A (mm) 2.5M	3.0M	4.0M
OS455E	φ42	—	3,970 (13.02)	4,970 (16.30)
ASR X-32P N2	φ42	3,780 (12.40)	4,280 (14.04)	5,280 (17.32)

Overall height : 1,865mm(6.12)



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

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