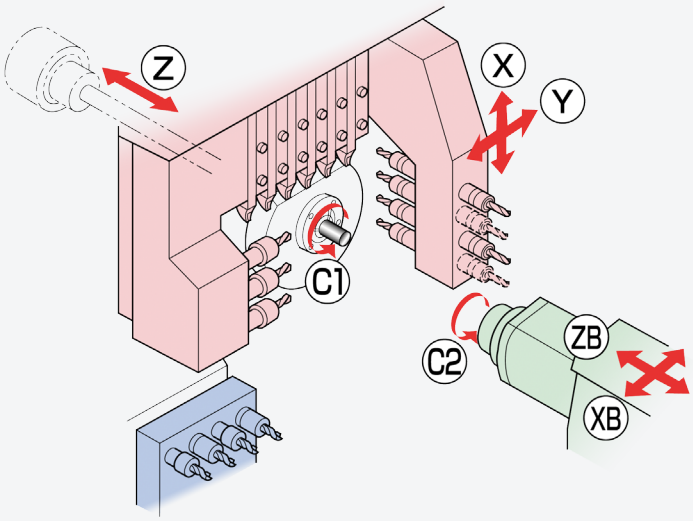
SR-10J type C

SWISS TYPE CNC AUTOMATIC LATHE



View machine demo >

View case study >

Introducing the Advanced

J-series small diameter machining model

» C-axis is standard on both main and sub spindles.
» Operation screen is easy to see/use with its 10.4 inch color display.
» User-friendly NC; upgraded memory capacity, more help functions, etc.
» Standard manual pulse generator that is useful for installation.

High precision

» The rigid tool post is equipped with a slanted sliding guideway.
» Z-ZB synchronization, phase synchronization of the main/ sub spindle.

High functionality

» 3-spindle drill unit for cross machining (standard).
» Rear driven tool capabilities give greater overlapping options.

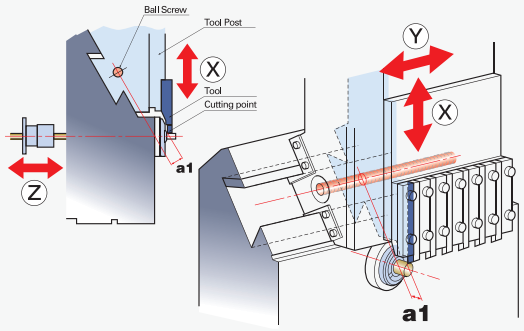
High productivity

» Minimum distance approach with the U-shaped tool post.
» High-speed rapid traverse: 35m/min.
» Independent tool post with driven tool capabilities.

Space saving

» Designed with small footprint of 775mm depth.

Rigid tool post with "slanted dovetail slideway structure". The tool post with Star's original "slanted dovetail slideway structure" improves the lifespan of cutting tools and maintains dimensional accuracy during continuous machining for long-periods.



The Y-axis slideway of the tool post incorporates a slanted dovetail structure. The X and Y-axis slideways can be arranged in a pattern close to the cutting point, which improves machine rigidity. In addition, a straight line, passing through the ball screw center which is parallel to the Y-axis slideway and the cutting point are close to each other (a1), reducing the moment load caused by cutting resistance and thereby improving rigidity.

ECO

STAR Environmental Standards Conformity models :

"With improved secondary machining capability and operability, the evolutionary advanced SR-10J is now on the market."

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Standard Machine Specifications

Item		Specifications
Max. machining diameter		φ10mm (25/64in)
Max. headstock stroke	Stationary GB	135mm (5-5/16in)
	Revolving GB	105mm (4-9/64in)
Tool		6 tools (□8mm)
4-Spindle sleeve holder	Number of tools	Front 4 tools
		Rear 4 tools
	Max. drilling capability	φ6mm (15/64in)
	Max. tapping capability	M5×P0.8
Power driven att.	Number of tools	3 tools
	Max. drilling capability	φ4mm (5/32in)
	Max. tapping capability	M3×P0.5
Main spindle indexing angle		C-axis control
Main spindle speed		Max.15,000min^{-1}
Main spindle motor		2.2kw(continuous)/3.7kw(15min./60%ED)
Rapid feed rate		35m/min (X, Y, Z, XB, ZB)
Power-driven att. spindle speed		Max.10,000min^{-1}
Power-driven att. drive motor		0.5kw
Coolant tank capability		89ℓ
Dimensions (W×D×H)		1,865×775×1,695mm
Center height		1,050mm
Weight		1,400kg
Power consumption		3.1KVA

Standard Accessories and Functions

1. CNC unit (FANUC 32i-B)
2. Cabinet & Operation panel
3. 10.4-inch color LCD display
4. Manual pulse generator
5. Pneumatic unit
6. Stand alone type coolant tank
7. Coolant level detector (lower limit)
8. Automatic centralized lubrication unit (with level detector)
9. Door interlock system
10. Main collet (select from tooling system)
11. Cs contouring control (main/sub spindle)
12. Spindle clamp unit (Main/Sub)
13. 6-station tool holder (□8mm)
14. 4-Spindle sleeve holder
15. Drive system for power-driven attachment
16. Back working Attachment
17. Drive unit for power-driven attachment B
18. Sub collet (select from tooling system)
19. Sub spindle air purge unit
20. Sub spindle air blow unit
21. Parts ejection detector
22. Broken cutoff tool detector
23. Leveling bolt & leveling pad
24. Work light
25. Leakage breaker (Rated current sensitivity: 30mA)
26. Operation tool kit

Optional Accessories and Functions

1. Main spindle inner tube 6mm
2. Stationary guide bush unit
3. Rotary guide bush drive unit
4. Rotary magic guide bush unit
5. Air purge unit
6. Coolant flow detector
7. Automatic barfeeder interface
8. Water removal unit
9. Tool for maintenance
10. 4-Spindle unit for back working (For stationary tools at back)
11. Parts separator unit A
12. Transformer CE marking specifications
13. Parts conveyor
14. Compliant with the RS-232C interface
15. Warning light

Backworking Attachment Specifications

Item			Specifications
Max. chucking diameter			φ10mm (25/64in)
Max. length for front ejection			70mm (2-3/4in)
Max. parts projection length			20mm (25/32in)
Back 4-Spindle unit	Number of tools		Stationary tool : 4tools/Power driven tool : Max.2tools
	Max. drilling capability	Stationary tool	φ4mm (5/32in)
		Power driven tool	φ4mm (5/32in)
	Max. tapping capability	Stationary tool	M3×P0.5
		Power driven tool	M3×P0.5
Sub spindle indexing angle			C-axis control
Sub spindle speed			Max.10,000min^{-1}
Sub spindle motor			0.55kw(continuous)/1.1kw(15min./50%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.

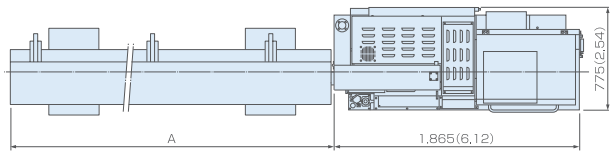
External Dimensions & Floor Space

unit: mm(ft)

Barfeeder

Type \ Length	Amm (ft)	
	2.5M	3.0M
OS121E	3,103(10.18)	3,603(11.82)
Z-12	3,333(10.93)	3,833(12.57)
ASR X-12Z	3,366(11.04)	3,866(12.68)

Overall height : 1,695 (5.56)



※Design features, specifications and technical execution are subject to change without prior notice.
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ISO 9001
ISO 14001
BUREAU VERITAS
Certification

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