Standard Machine Specifications

Item			Specifications			
			type S	type G	type E	type C
Max. machining diameter			φ26mm (1-1/64 inch)			
Max. headstock stroke		Standard	260mm(10-15/64 inch)			
		R.M.G.B. unit	223.5mm(8-51/64 inch)			
		N.G.B. type	Bar diameter×2.5（Max.65mm(2-35/64inch)）			
Tool			5 tools on the front + 2 tools on the rear（□16mm）			
5-spindle sleeve holder		Number of tools	Front 5 tools			
			Rear 5 tools			
		Max. drilling capability	φ13mm(33/64 inch)			
		Max. tapping capability	M12×P1.75			
2-spindle sleeve holder		Number of tools	2 tools			
		Max. drilling capability	φ10mm(25/64 inch)			
Power driven attachment	Number of tools	Tilting head unit	Front 4 tools / Rear 4 tools			
			B-axis control		Angle adjustable type	
		Front	Cartridge type 4 pos.	Cross milling 4 tools		
				OP：Cartridge type 4 pos.		
		Upper	Cartridge type 1 pos. B-axis control	Cartridge type 2 pos.		
	Max. drilling capability	Tilting head unit	φ8mm(5/16 inch)			
		Front / Upper	φ10mm(25/64 inch)			
	Max. tapping capability	Tilting head unit	M8×P1.25			
		Front / Upper	M8×P1.25			
	Spindle speed		Max.8000min^{-1}			
	Drive motor		2.2kW（CONT.）/ 3.0kW（5min / 30%ED）			
Rapid feed rate			36m/min（X1,Y1,Z1,X2,Y2,Z2）			
Main spindle indexing angle			C-axis control			
Main spindle speed			Max.10000min^{-1}			
Main spindle motor			5.5kW（CONT.）/ 7.5kW（10min / 25%ED）			
Coolant tank capability			228ℓ			
Dimensions(W×D×H)			2550×1300×2000mm			
Weight			3600kg			
Power consumption			11.98kVA		9.58kVA	

Backworking Attachment Specifications

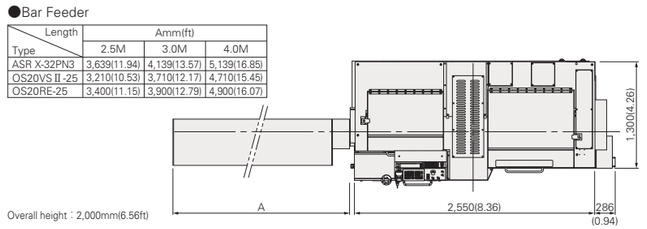
Item			Specifications
Max. chucking diameter			φ26mm(1-1/64 inch)
Max. length for front ejection			160mm(6-19/64 inch)
Max. parts projection length			40mm(1-9/16 inch)
Back 8-spindle unit	Number of tools		8 tools
	Max. drilling capability	Stationary tool	φ13mm(33/64 inch)
		Power driven tool	φ8mm(5/16 inch)
	Max. tapping capability	Stationary tool	M12×P1.75
		Power driven tool	M6×P1.0
Power driven att. spindle speed			Max.6000min^{-1}
Power driven att. spindle motor			1.0kW（CONT.）/ 1.2kW（5min / 30%ED）
Sub spindle indexing angle			C-axis control
Sub spindle speed			Max.10000min^{-1}
Sub spindle motor			3.7kW（CONT.）/ 5.5kW（10min / 40%ED）

External Dimensions and Floor Space

unit : mm(ft)

●Bar Feeder

Type \ Length	Amm(ft)		
	2.5M	3.0M	4.0M
ASR X-32PN3	3,639(11.94)	4,139(13.57)	5,139(16.85)
OS20VS Ⅱ-25	3,210(10.53)	3,710(12.17)	4,710(15.45)
OS20RE-25	3,400(11.15)	3,900(12.79)	4,900(16.07)



Overall height：2,000mm(6.56ft)

Standard Accessories and Functions

1. CNC unit　FANUC　31i－B5 Plus（type S/G）
   FANUC　32i－B Plus（type E）
   FANUC　0i－TF Plus（type C）
2. 10.4-inch color LCD display
3. Pneumatic unit
4. Coolant level detector
5. Automatic centralized lubrication unit
6. Door Interlock unit with Locking System（except for Europe）
   Door Interlock unit with Individual Coding（only for Europe）
7. Cs contour control（Main/Sub）
8. Spindle clamp unit（Main/Sub）
9. Cooling unit (Main spindle/ Drive unit for gang tool post)
10. Revolving guide bush unit
11. Drive unit for revolving guide bush
12. Air purge unit for revolving guide bush
13. Main/Sub collet sleeve
14. Gang-type 5 station tool holder □16 mm
    Gang-type 5 station tool holder □16 mm
15. 4 Spindle cross drilling unit cartridge（type S）
    4 Spindle cross drilling unit ER16（type G/E/C）
16. 4 Spindle opposing unit with B axis control function（type S/G/E）
    Angle adjustable 4 spindle opposing unit（type C）
17. Second B-axis unit clamp unit（type S）
18. 5 spindle sleeve holder
19. 2 spindle sleeve holder
20. Broken cut-off tool detector
21. Back attachment
22. 8 spindle back working unit with Y axis control function
23. Drive unit for 8 spindle back working unit
24. Parts separator
25. Parts conveyor
26. Sub spindle air purge unit
27. Coolant pump 400W ver.（Main/Sub）
28. Work light
29. Earth leakage breaker

Optional Accessories and Functions

1. Gang-type tool holder Coolant thru（5 station/2 station）
2. 4 Spindle cross drilling unit cartridge（type G/E/C）
3. Non-Guide Bush Version
4. Revolving magic guide bush unit
5. Coolant flow detector
6. Coolant flow detector interface
7. Coolant pump with de-aeration function
8. Coolant chiller
9. Water separator
10. Beacon
11. Beacon interface
12. Parts ejector with Spring
13. Parts ejection detector
14. Parts ejector with air cylinder
15. Parts separator unit long parts ver.
16. Parts ejector with guide tube
17. Parts stopper unit
18. Coolant unit（6.9MPa/2.5MPa/0.7MPa）
19. Coolant unit signal cable 46 contacts Ver.
20. Coolant unit power cable
21. Coolant valve
22. Coolant piping
23. Expanded I/O module unit
24. Terminal base
25. Reducing valve
26. Main spindle inner tube
27. Steady rest for feed rod
28. Automatic bar feeder interface
29. Steady rest unit cover
30. Safety cover
31. LAN ／ RS232C interface
32. Transformer
33. Transformer CE marking version 20kVA
34. CE/UKCA 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.

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.

※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.

STAR MICRONICS CO., LTD.
Machine Tools Division
1500-34 Kitanoya, Misawa, Kikugawa, Shizuoka, 439-0023 Japan
TEL.+81-537-36-5594　FAX.+81-537-36-5607
https://star-m.jp/eng/

Star CNC Machine Tool Corporation
123 Powerhouse Road, Roslyn Heights,NY11577,U.S.A.
TEL.+1-516-484-0500　FAX.+1-516-484-5820

Star Micronics GB Limited
Unit 1 Riverlands Business Park Raynesway DERBY DE21 7BZ
TEL.+44-1332-86-44-55　FAX.+44-1332-86-40-05

Star Micronics GmbH
Robert-Grob-Str.1,D-75305 Neuenbürg,Germany
TEL.+49-7082-7920-0　FAX.+49-7082-7920-20

Star Micronics AG
Lauetstrasse3,CH-8112 Otelfingen,Switzerland
TEL.+41-43-411-60-60　FAX.+41-43-411-60-66

Star Machine Tool France
90 Allee de Glaisy,ZI,74300 Thyez Haute Savoie,France
TEL.+33-450-96-05-97　FAX.+33-450-96-91-54

Shanghai Xingang Machinery Co.,Ltd.
2F, 229 Fute Rd.N. The China (Shanghai) Pilot Free Trade Zone
TEL.+86-21-5868-2100　FAX.+86-21-5868-2101

Star Micronics (Thailand) Co.,Ltd.
289/23 M.13 Soi Kingkaew 25/1, Kingkaew Rd.,T.Rachathewa A.Bangplee Samutprakarn 10540,Thailand
TEL.+66-2-186-8945-47　FAX.+66-2-183-7845

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star

CNC SWISS TYPE AUTOMATIC LATHE

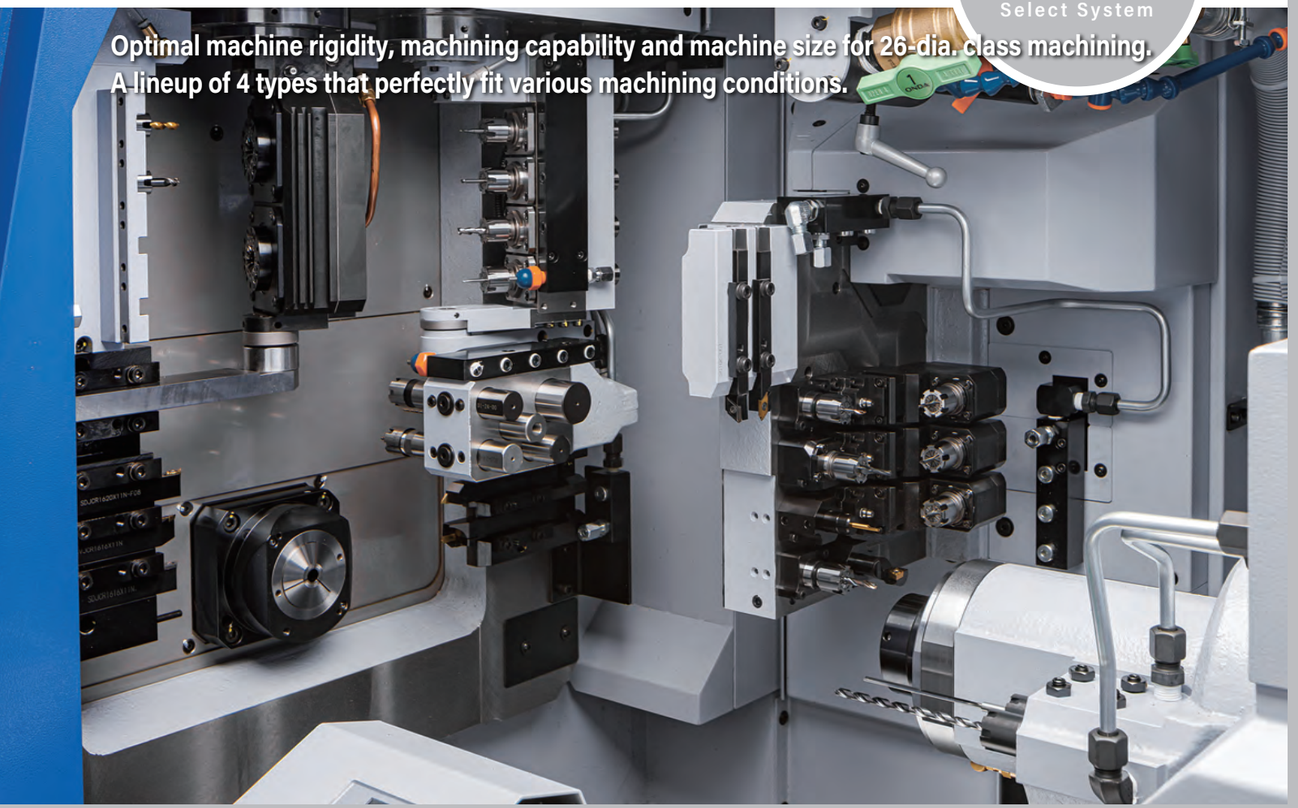
SD-26

type S·G·E·C series

ECO
STAR Environmental Standards Conformity models

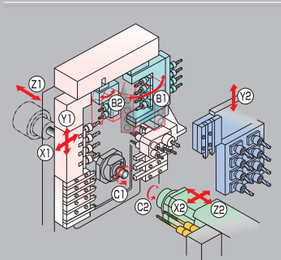
The long-awaited new machine, born from our focus on the needs for the 26-dia. class.

4 type
Select System

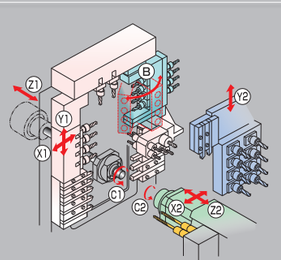


A lineup of 4 models that realize optimal tooling for a variety of machining conditions

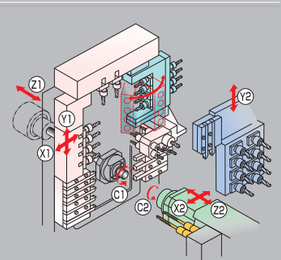
SWISS TYPE AUTOMATIC LATHE equipped with star motion control system	Type S	:	Model equipped with double B-axis control (simultaneous 5-axes control)
SWISS TYPE AUTOMATIC LATHE equipped with star motion control system	Type G	:	Model equipped with B-axis control (simultaneous 5-axes control)
CNC SWISS TYPE AUTOMATIC LATHE	Type E	:	Model equipped with B-axis control (simultaneous 4-axes control)
CNC SWISS TYPE AUTOMATIC LATHE	Type C	:	Model equipped with angle adjustable swivel unit



Type S



Type G/E



Type C

Optimized for the 26-dia. ❶ Design that takes machining capabilities to the limit

Advanced complex machining with the double B axis (Type S)

A lineup of high functionality models that have two B-axes on a single tool post. Realizes advanced complex machining by driving the 4-spindle facing-type swivel unit and the various types of tool units for the B-axis No. 2 that are controlled simultaneously.

High-speed rotation of 10,000min-1

Employs main spindle with high speed of max. 10,000min-1. Realizes high-speed, high-accuracy large diameter machining through a design with superior balance that prevents spindle runout even for large diameter workpiece.

Supports external turning on the back side

Two types of tool holder are available as an option for the tool post for back working. Supports external turning needs on the back side in machining large-diameter parts.

Supports deep hole drilling

2-spindle sleeve holder arranged alongside the sub spindle, with tools for deep hole machining available. Realizes support for deep hole machining of holes with max. diameter of 10mm and depth of 100mm.

Diverse cross-machining

Equipped with a 4-spindle cross drilling unit*1 on the front side of the gang-type tool post, and cartridge-type tool position*2 on the upper section as well, to realize diverse tooling variations.

Supports high-pressure coolant

Piping options available various types of high-pressure coolant, such as the coolant through-type tool holder. Support for chip removal using a high-pressure coolant pump.

*1. Type S is a cartridge type, Type G/E/C are for cross milling or cartridge type; *2. Type S is a 1 position tool unit for B-axis No. 2. Type G/E/C has 2 positions for existing tool units.

Optimized for the 26-dia. ❷ Highly rigid and accurate design

Improved B axis hold rigidity

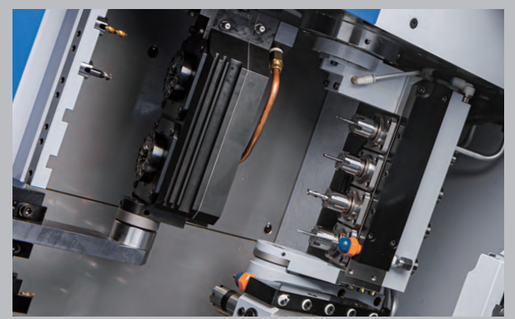
The 4-spindle facing-type swivel unit employs a structure for holding the upper and lower ends, and employs a upper grade motor and decelerator for B-axis control.
In addition, the Type S B-axis No. 2 side unit is equipped with a brake mechanism to maintain sufficient hold rigidity when using B-axis swivel control.

Dovetail groove guideway on the sliding section

Employs a dovetail groove guideway on the Y2-axis sliding section of the back working tool post. The tool post rigidity has been greatly improved, suppressing vibration and deflection from the cutting load.

Thermal displacement correction function

Temperature sensors are arranged on each section of the machine body, such as on the pedestal. This realizes flexible thermal displacement correction based on real-time thermal expansion data that is feedback from the sensors.



Built-in spindle

The main and sub spindle employ a built-in spindle structure. The build-in sensor significantly improves spindle indexing accuracy.

Designed for superior workability

Arranged for improved workability of the cutting chamber

The machine structure has been reconfigured, taking into account accessibility to the guide bush and tool post. Improved workability during setup, such as a vertical layout of the spindles on the back working tool post placed at the rear of the cutting chamber.