

NEW model



Standard Machine Specifications

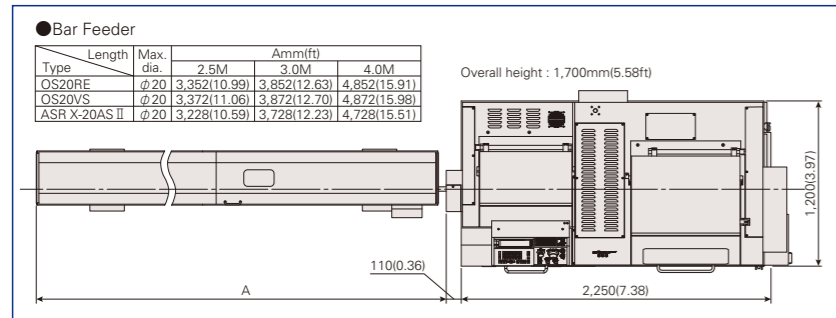
Item	Specifications	
Max. machining diameter	φ20mm(25/32in) OP : φ23mm(29/32in)	
Max. headstock stroke	Standard	205mm(8in)
	R.M.G.B. type	160mm(6-19/64in)
	N.G.B. type	Bar diameter × 2.5(Max.50mm) (Max.1-31/32in)
Tool	Number of tools	6 tools
	Tool shank	□12mm
5-spindle sleeve holder	Number of tools	Front 5 tools Rear 5 tools
	Max. drilling capability	φ12mm(1/2in)
	Max. tapping capability	M10×P1.5
2-spindle front sleeve holder	Number of tools(sleeve)	2 tools
	Max. drilling capability	φ10mm(25/64in)
	Max. depth of hole	100mm(3-15/16in)
Power driven attachment	Number of tools	Cross milling 3 tools(ER16) + Cartridge type 2Pos. Cross milling 3 tools(ER20×1, ER16×2) + Cartridge type 2Pos.
	Max. drilling capability	φ10mm(25/64in)
	Max. tapping capability	M8×P1.25
	Spindle speed	Max.8,000min ⁻¹
	Drive motor	2.2kW
Rapid feed rate	35m/min(X1, X2, Y1, Z1, Z2), 24m/min(Y2) : type B only	
Main spindle indexing angle	C-axis control	
Main spindle speed	Max.10,000min ⁻¹	
Main spindle motor	2.2kW(continuous) / 3.7kW(10min./25%ED)	
Coolant tank capacity	202 ℓ	
Dimensions (W×D×H)	2,250×1,200×1,700mm	
Weight	2,750kg	
Power consumption	4.8kVA	
A-weighted sound pressure : note-1	Max.74.0dB	

Backworking Attachment Specifications

Item	Specifications	
Max. chucking diameter	φ20mm(25/32in) OP : φ23mm(29/32in)	
Max. length for front ejection	100mm(3-15/16in)	
Max. parts projection length	30mm(1-3in/16in)	
Number of tools	4 tools(type A)	
	8 tools(type B)	
Unit especially for backworking	Max. drilling Stationary tool	φ12mm(1/2in)
	Max. drilling Power driven tool	φ6mm(15/64in)
	Max. tapping Stationary tool	M10×P1.5
	Max. tapping Power driven tool	M5×P0.8
Power-driven att. spindle speed	Max.8,000min ⁻¹	
Power-driven att. drive motor	1.0kW	
Sub spindle indexing angle	C-axis control	
Sub spindle speed	Max.10,000min ⁻¹	
Sub spindle motor	2.2kW(continuous) / 3.7kW(10min./25%ED)	

External Dimensions and Floor Space

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.

STAR MICRONICS CO., LTD.

Machine Tools Division

1500-34 Kitanoya, Misawa, Kikugawa, Shizuoka, 439-0023 Japan

America, Europe Sales TEL.+81-537-36-5594 FAX.+81-537-36-5607
Asia Sales TEL.+81-537-36-5574 FAX.+81-537-36-5607

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
Lauetstrasse 3, CH-8112 Otelfingen, Switzerland
TEL.+41-43-411-60-60 FAX.+41-43-411-60-66

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

<http://www.star-m.jp/eng/>

9001 ISO 14001
CERTIFIED

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

Standard Accessories and Functions

- CNC unit FANUC 32i-B
- Operation panel 10.4-inch color LCD display
- Pneumatic unit
- Coolant level detector
- Automatic centralized lubrication unit
- Door interlock system
- Cs contouring control (Main/Sub)
- Spindle clamp unit (Main / Sub)
- Revolving guide bush unit
- Drive unit for revolving guide bush
- Air purge for revolving guide bush
- Main / Sub collet
- 6-station tool holder □12mm
- Cross drilling unit (Gang type tool post)
- 5-spindle sleeve holder
- Broken cutoff tool detector
- Backworking attachment
- Back 4-spindle unit ※Type A
- 8-spindle backworking unit with Y axis control function ※Type B
- Parts conveyor
- Sub spindle air purge unit
- Sub spindle air blow unit
- Drive unit for power-driven attachment B (4-spindle backworking unit) ※Type A
- Drive unit for power-driven attachment (8-spindle backworking unit) ※Type B
- Work light
- Leakage break

Optional Accessories and Functions

- Coolant flow detector
- Water removal unit
- Oil mist filter
- Beacon
- Main spindle inner tube
- Feed arrow steady rest
- Rotary magic guide bush unit
- Non-guide bush type
- Parts ejector (Spring type)
- 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
- Automatic bar feeder interface
- LAN/RS232C interface
- Transformer
- Transformer CE marking version
- CE marking specifications

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.

CNC SWISS TYPE AUTOMATIC LATHE

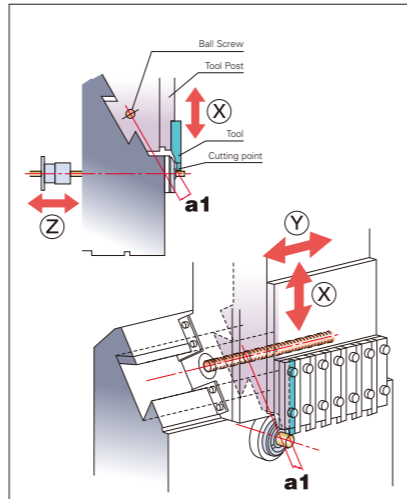
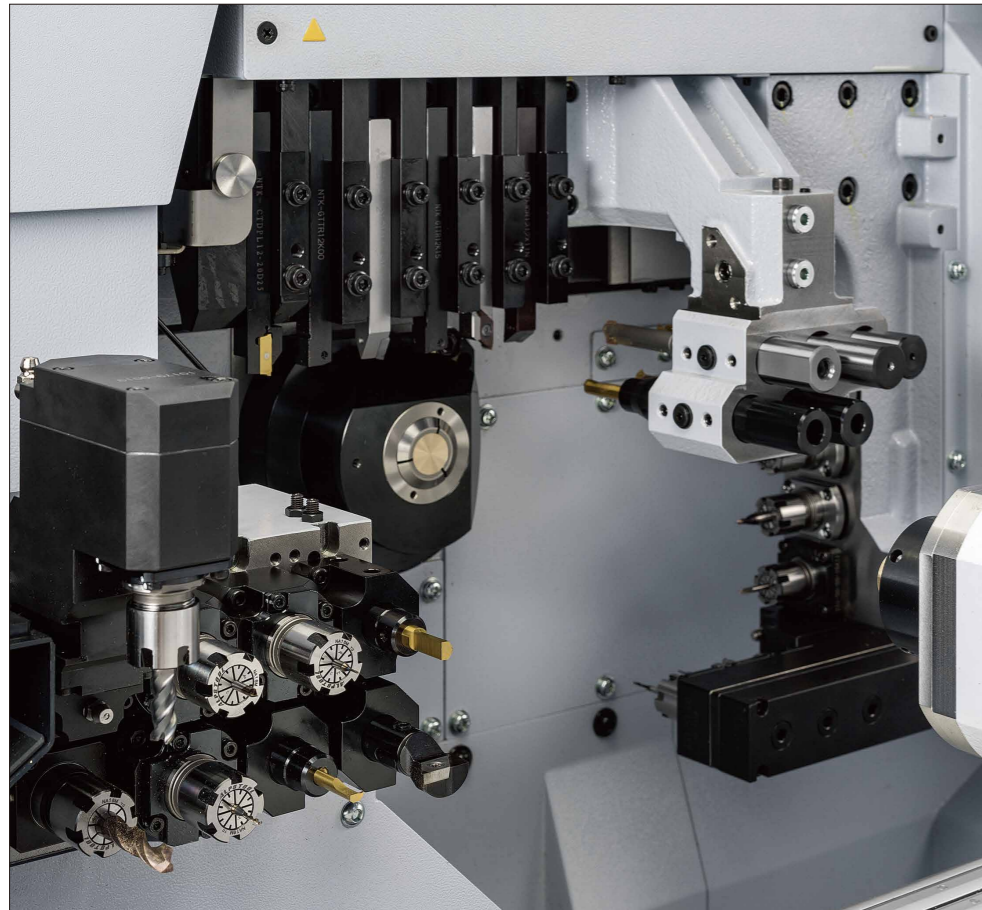
SR-20JI



STAR Environmental Standards Conformity models

2017.09_Ver1.0_1

Ever-Evolving SR-20JII with Versatile Features to Respond to Varied Needs

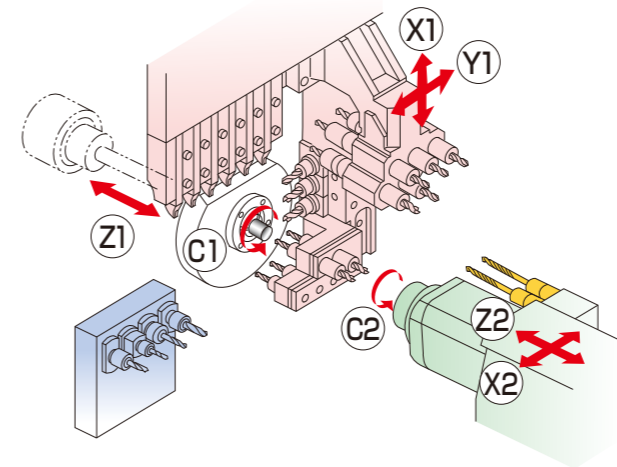


Slanted slide guideway structure
High rigidity tool post

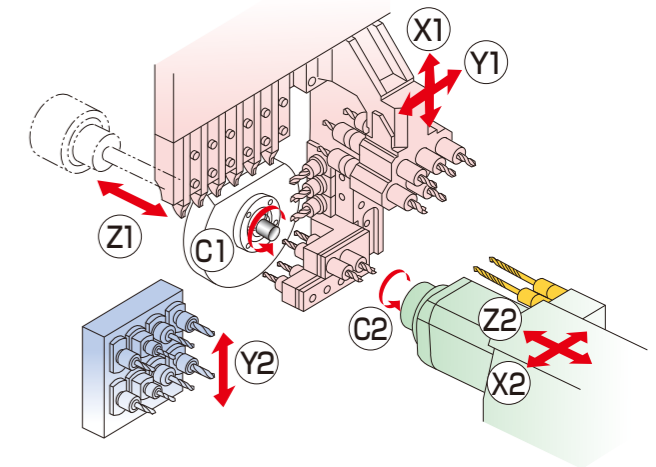
The Y-axis slideway of the tool post incorporates a slanted dovetail structure. The X and Y-axis slideways are positioned close to the cutting point, which improves machine rigidity and stability. In addition, a straight line, passing through the ball screw center which is parallel to the Y-axis slideway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

Tool Post Control Axis

type A



type B



Model variations are available to achieve a single ideal machine with selected optimum functions.

The latest model SR-20JII has two types A and B to respond to customers requirements for increased flexibility. By flexibly combining required functions and selecting a single ideal machine, the optimum machine configuration is achieved to contribute to the manufacturing at each user plant.

High Rigidity and High Accuracy

- A rigid gang-type tool post with a slant-type slide guideway structure is mounted for front working. A slanted dovetail guideway is introduced for both the Y1 and X1 axes.
- A highly rigid spindle sleeve slideway structure is used in N.G.B. type to further increase rigidity.

High Function and Machining Ability

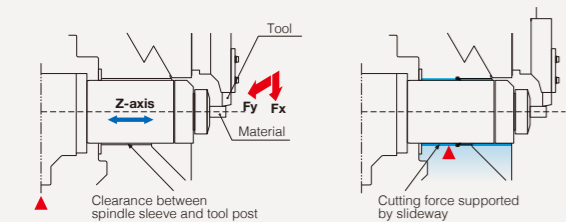
- The G.B. and N.G.B. change-over mechanism is introduced.
- The sub spindle motor and power tool motor have higher output power (when compared with SR-20J).
(Sub spindle) 1.5/2.2kW → 2.2/3.7kW
(Power tool) For cross: 1.2kW → 2.2kW, For back working: 0.5kW → 1.0kW
- The 5-spindle cross drilling unit includes two types.
 - ① Three tools especially for cross drilling (ER16) + 2-position cartridge
 - ② Three tools especially for cross drilling (ER20x1, ER16x2) + 2-position cartridge
- Type A is equipped with a 4-spindle type and Type B is equipped with a Y-axis control/8-spindle type back working tool post. A power tool unit can be accommodated at all positions for both type A and B.
- The backworking tool post now features increased pitch centers for $\phi 20\text{mm-OD}$ turning without interference with the other tool stations.
- Materials of up to $\phi 23\text{mm}$ can be optionally supplied.

Operability and Workability

- Design features combining a large up and over door, reduced distance from the machine front to the guide bush, and a lowered threshold height into the working area further enhances the operator's accessibility.
- The movable operation panel enable operation at the best position suited to the operator.

High rigidity head stock for non-guide bush type

- Original non-guide bush type
- Spindle Sleeve Slideway Structure



- A slanted dovetail structure is incorporated in the type B Y2 slideway to further improve rigidity of the backworking tool post.
- The main and sub spindles employ a built-in structure to enhance spindle indexing accuracy.

