

STAR SR-20J type N CNC Drehautomat

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INHALTSVERZEICHNIS

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1. TECHNISCHE DATEN¹

4. Specifications

This chapter describes the specifications of the machine.

4-1 Standard Machine Specifications

Control Axis Specifications

Item	Specifications	
Rapid feed rate	X, Z, Y, XB, ZB	35000mm/min
	C	198000°/min (550min ⁻¹)
Maximum turning feed rate	X, Z, Y, XB, ZB	10000mm/min
	C	10000°/min (27.8min ⁻¹)
Minimum input increment	X, Y, XB	0.001mm/0.0001inch (diameter)
	Z, ZB	0.001mm/0.0001inch
	C	0.001°



- NOTICE**
- When "Increment system 1/10" is selected, one digit will be added to the number of digits after the decimal point.

Machining Capability



- NOTE**
- The machining capabilities shown apply to SUS303 (AISI 303, DIN X10CrNi189).
 - Machining capabilities may differ from the listed data depending on the machining conditions, and the bars or tools used.
 - Sleeves are optional.

Item		Specifications	Remarks
Maximum machining diameter		φ20 mm (25/32inch)	
Maximum headstock stroke	type C	Standard	205 mm(8inch)
		With the rotary magic guide bush unit	172 mm (6-49/64inch)
	type N	55mm (2-11/64inch)	<Optional>
Maximum drilling capability	Stationary tool	φ10 mm (25/64inch) (when using T11~T14)	Collet ER11, ER16, ER20
	Stationary tool	φ8 mm (5/16inch) (when using T41, T42)	
Maximum tapping capability	Power-driven tool	φ8 mm (5/16inch)	
	Stationary tool	M8×P1.25	
Maximum milling capability	Power-driven tool	M6×P1.0	
Maximum slotting capability	Power-driven tool	φ10 mm (25/64inch)	
Maximum slotting capability	Power-driven tool	1.5mm(W)×4mm(D)	For 1 cutter

¹ Für die Richtigkeit, Vollständigkeit und Aktualität der Angaben übernehmen wir keine Gewähr.

Machine Configuration

Item		Specifications	Remarks
Operation mode		Right-handed	
Configuration		Integrated mechanical/ electrical structure	
Dimensions	L×W×H	2200×1200×1700mm	Including the leveling pads
	Center height	1060mm	
	Weight	type C / N Approx.2200kg	Not including the coolant tank

Main Spindle Specifications

Item	Specifications	Remarks
Spindle speed	Max. 10000min ⁻¹	
Speed control	5-digit direct S command	
Rotation control	AC Spindle drive	
Drive motor	2.2kW (CONT.)/3.7kW (15min/60%ED)	
Indexing	C-axis control	

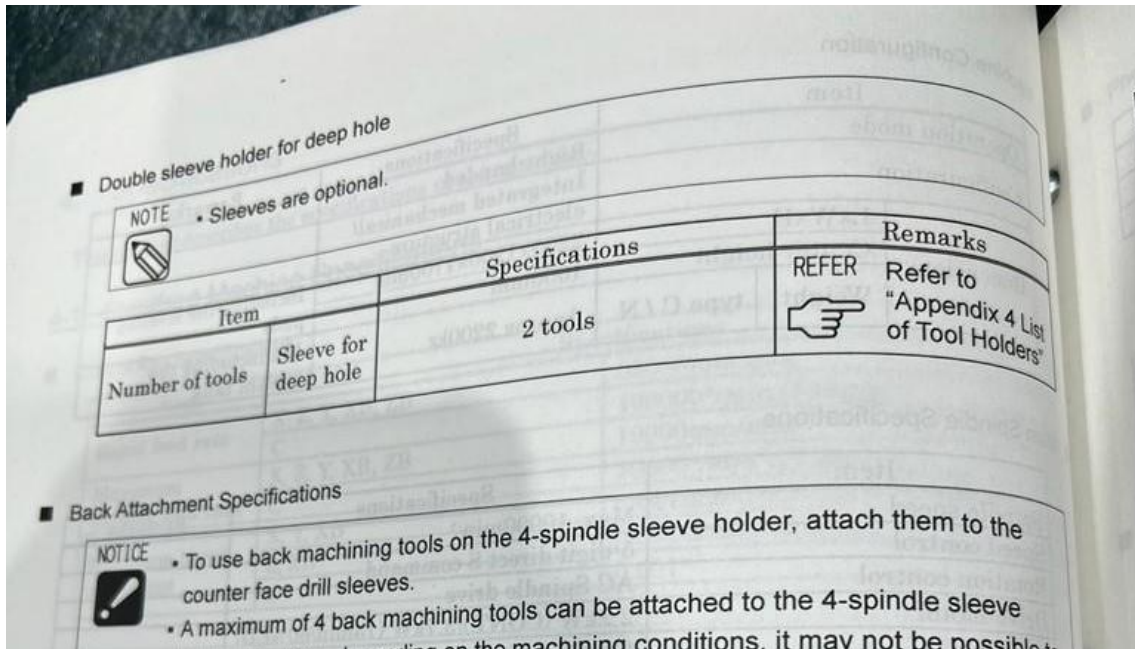
Tool Post


NOTE



• Sleeves are optional.

Item		Specifications	Remarks
Type		Gang tool post	
Number of tools	Tool	6 tools □12mm×100~135mm □1/2inch×4~5-5/16inch	REFER
	Sleeve	4 tools	
	Sleeve for deep hole	2 tools	Refer to "Appendix 4 List of Tool Holders"
	Power driven tool	3~8 tools 3 tools for the cross-drilling unit are standard. Cartridge type tools (optional) can be installed in two positions.	
Tool holder & Sleeve		301, 331, 401, 411, 421, 541, 571, 661 series	
Power-driven attachment	Spindle speed	max.8000min ⁻¹	
	Speed control	4-digit direct S command	
	Rotation control	AC servo drive	
Tool selection	Drive motor	1.2kW	
		Servo motor	



	Item	Specifications	Remarks
Pick-up capability	Maximum chucking diameter	φ20mm (25/32 inch)	
	Maximum part length	80mm (3-5/32 inch)	
	Maximum part projection length	30mm (1-3/16 inch)	
	Maximum part insertion length	75mm (2-61/64 inch)	
Spindle specifications	Spindle speed	Max. 8000min ⁻¹	
	Speed control	4-digit direct S command	
	Rotation control	AC Spindle drive	
	Drive motor	1.5kW (CONT.) /2.2kW (15min/50%ED)	
Power-driven tool	Indexing	C-axis control	
	Spindle speed	Max. 8000min ⁻¹	
	Speed control	4-digit direct S command	<Optional>
	Rotation control	AC Servo drive	
Number of tools	Motor	0.5kW	
	Back 4-spindle unit	4 tools	A maximum of 4 stationary or power-driven tools available in the drive unit when the power-driven tool drive unit Type B is installed
	4-spindle sleeve holder	4 tools (Counter-face drill sleeve)	REFER  Refer to "Appendix 4 List of Tool Holders".
Machining capability	Power driven tool (Gang tool post)	4 tools (2-spindle counter-face drilling unit)	
	Maximum drilling capability	Stationary tool	φ8mm (5/16 inch)
		Power-driven tool	φ5mm (3/16 inch)
	Maximum tapping capability	Stationary tool	M8×P1.25
		Power-driven tool <optional>	M4×P0.7
	Maximum milling capability	Power-driven tool	φ5mm (3/16inch)
Maximum slotting capability	Power-driven tool <optional>	φ45 ×Width 1mm ×Depth 2mm	

■ Broken cut-off tool detector

Item	Specifications	Remarks
Minimum detectable length	5.0mm	
Minimum detectable diameter	φ2mm	
Detection load	5.2N (Part diameter φ2)	

■ Coolant Unit Specifications

Item	Specifications	Remarks
Installation method	Stand-alone type	
Tank capacity	170L	Effective capacity : 135L
Coolant motor	0.4kW	
Safety device	Coolant level detector	Detects shortages of coolant in the tank
	Coolant flow detector	Coolant flow detector [48459] <optional>
Coolant	Water soluble/ water-insoluble	

■ Lubrication System Specifications

Item	Specifications	Remarks
Lubrication points	Rectilinear guide bearing, sliding guideways, ball screws	
Oil discharge amount	type C 2.0cm ³ per discharge	Discharge interval: 15min/50Hz, 12.5min/60Hz
	type N 2.5cm ³ per discharge	
Tank capacity	6L	Effective capacity: 3.8L
Pump motor	3W	
Safety device	Lubricant level detector	Detects shortages of lubricant in the tank
Lubricant	For sliding surface: Viscosity grade ISO VG68	Recommended oil: Mobil Vactra oil No. 2SLC

■ Pneumatic Unit Specifications

Item		Specifications	Remarks
Normal pressure		0.5MPa (for times other than air blow) 0.4 MPa (for Air blow)	Compressed air source to be provided by the user
Piping bore		Rc1/4	
Air consumption	type C/	7.0 m ³ /h (ANR) (when water-insoluble coolant is used)	7.0 or 10.0 m ³ /h (ANR) is the value when air is blown for 10 sec/min and air purge is used. Air consumption of the automatic bar feeder is not included.
	type N	10.0 m ³ /h (ANR) (when water-soluble coolant is used)	

■ Power supply

Item		Specifications	Remarks
Power supply	Voltage	3 phase, 200Vac±10%	REFER Please refer to section "13-19 Coolant Unit 6.9MPa [68459]" for the capacity of the separate power supply of the coolant unit 6.9MPa [68459].
	Frequency	50/60Hz ±1Hz	
	Capacity type C / type N	Load run average power: 5.0KVA	

2. FOTOS DER MASCHINE





