Stor

CNC AUTOMATIC LATHE [Non-Guide-Bush Type]



Pursuing an absolutely cost effective machine.



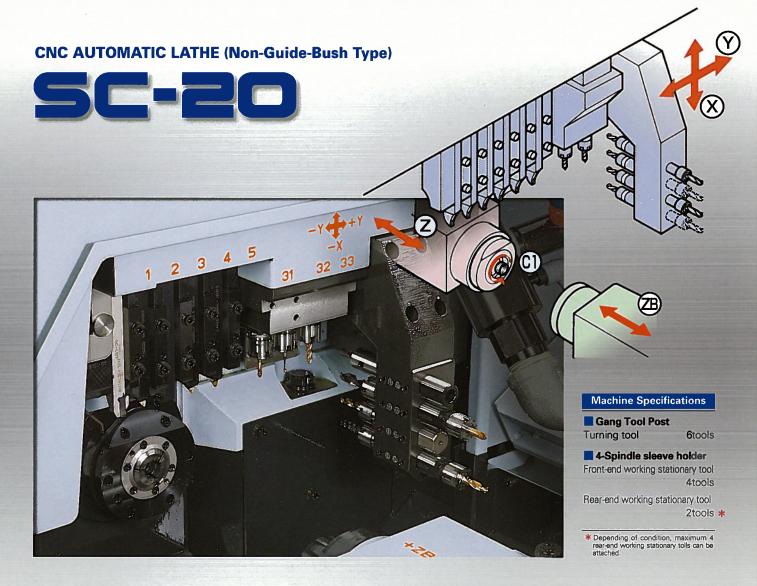












Building on the reliable performance of the SB-16 machine, the non-guide-bush SC-20 realizes further cost savings to be a cost effective machine.

Total Cost Savings

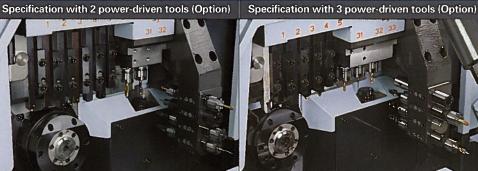
- Low price and satisfactory standard specifications.
- Material cost reduction and energy savings with non-guide-bush and non-hydraulic system.
- Durable configuration employing centralized lubrication system and belt-closed spindle.

²² Machining Performance

- Complex machining capability achieved by the headstock and tool post configuration of high rigidity.
- Precision machining capability achieved by the pull-type collet chuck.
- Stable performance achieved by the headstock and tool post configuration controlling thermal deflection.

There are two types of model in the SC range. The choice rests with you to select your favoured specification.

Optional Accessories and Functions



Special specification (to cope with complex machining)

Gang Tool Post

Turning tool 6 tools Power-driven tool 2 tools

4-Spindle sleeve holder

Front-end working stationary tool 4 tools Rear-end working stationary tool 2 tools



Special specification (with enhanced complex machining capability)

Gang Tool Post

Turning tool 5 tools Power-driven tool 3 tools

4-Spindle sleeve holder

Front-end working stationary tool 4 tools 2 tools * Rear-end working stationary tool

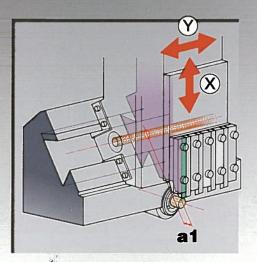


Backworking attachment



▲ 4-Spindle sleeve holder

* Depending of condition, maximum 4 rear-end working stationary tolls can be attached.



Star original rigid "slanted dovetail slideway structure" for improved dimensional accuracy and tool life.

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

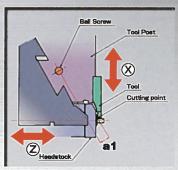
This enhanced rigidity leads to dynamic stability during cutting, improves dimensional accuracy during long continuous operation, and contributes to the productivity increases.

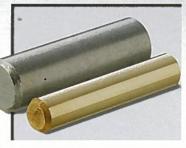
he remnant

length

minimum

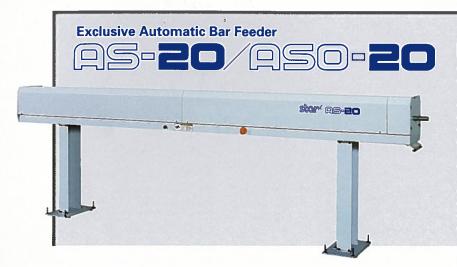
50mm





SC-20 (Non-Guide-Bush Type) reduces Material Cost

The remnant length is reduced since material is gripped near the machining position. Cold-finished bar can be also used.



	AS-20	ASO-20	
Bar diameter	φ4~φ20mm(φ5	/32in~ \phi 25/32in)	
Bar storage capa	acity	φ20→9pieces	
■Bar length 1,000mm~3,045mm			
	(3.28ft-	~9.99ft)	
Power source	ower source 200 / 220 VAC, 50/60Hz		
Air source	0.5Mpa 20L/min(ANR)	0.5Mpa 50L/min(ANR)	
Machine dimensions			
[2.5m]	W3,164×D450mm	W3,172×D450mm	
	(W10.38×D1.48ft)	(W10.40×D1.48ft)	
[3.0m]	W3,664×D450mm	W3,672×D450mm	
	(W12.02×D1.48ft)	(W12.04×D1.48ft)	
Machine weigh	t		
[2.5m]	5m) 230kg 270kg		
[3.0m] 250kg		300kg	

CNC AUTOMATIC LATHE (Non-Guide-Bush Type)



■Machine Specifications

Item		Specifications
Max. machining diameter		φ20mm (25/32in)
Max. headstock stroke		Bar diameter×2.5 (Max.55mm)
Tool		6 tools or 5 tools (□12mm) : selectable *
sleeve	Number of tools	4 tools
	Max. drilling capability	φ10mm (25/64in)
	Max. tapping capability	M8×P1.25
Power-driven attachment	Number of tools	2 tools or 3 tools : selectable *
	Max. drilling capability	φ6mm (15/64in)
	Max. tapping capability	M5×P0.8
Main spindle speed		Max. 10,000min ⁻¹
Main spindle motor		2.2kw/3.7kw
Power-driven att. spindle speed		Max.5,000min ⁻¹
Power-driven att. drive motor		0.4kw
Coolant tank capacity		152ℓ
Dimensions (W×D×H)		1,855×1,060×1,750mm
Weight		1,600Kg
Power consumption		3.0KVA

Backworking Attachment Specifications

Item		Specifications
Max. chucking diameter		φ20mm (25/32in)
Max. length for front ejection		55mm (2-11/64in)
Max. parts projection length		30mm (1-3/16in)
4-spindle sleeve holder	Number of tools	2 tools (Max.4 tools)
	Max. drilling capability	ϕ 8mm (5/16in)
	Max. tapping capability	M6×P1.0
Sub spindle speed		Max.8,000min ⁻¹
Sub spindle motor		1.Okw

Standard Accessories and Functions

- 1. Pneumatic unit
- 2. Stand alone type coolant tank
- 3. Coolant level detector (low level)
- 4. Automatic centralized lubrication unit (with level detector)
- 5. Door interlock unit
- 6. Broken cut-off tool detector
- 7. Parts separator
- 8. 6-station tool holder
- 9. 4-spindle sleeve holder

- 10. Main spindle 15° indexing unit
- 11. Main spindle air purge unit
- 12. Sub spindle air blow unit
- 13. Sub spindle air purge unit
- 14. Parts ejection detector
- 15. Main collet
- 16. Sub collet
- 17. Work light
- 18. Leakage braker

Optional Accessories and Functions

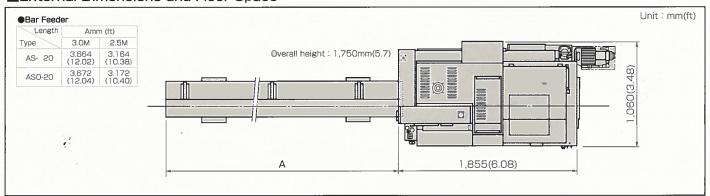
- 1. Transformer
- 2 Parts conveyor
- 3. Long parts ejector(Air cylinder type)
- 4. Automatic barfeeder interface
- 5. 5-station tool holder
- 6. 3-spindle cross drilling unit 7. 2-spindle cross drilling unit
- 8. Coolant unit 1.5MPA
- 9. Coolant oil flow sensor
- 10. Warning light
- 11. Main spindle C-axis control unit
- 12. Main spindle 1° indexing unit

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.

* Selectable specifications.

External Dimensions and Floor Space



- **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.

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