

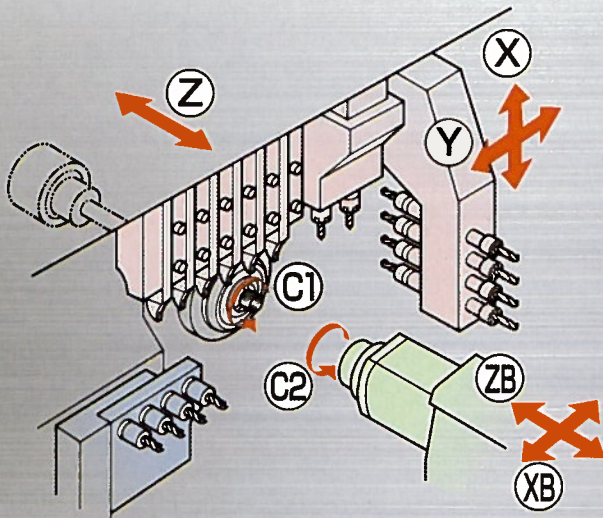
NEW model

star

CNC SWISS TYPE AUTOMATIC LATHE

SB-16 type E

Combining both Cost Effective Price and Competitive Base Specification



NEW FEATURES

- Main/sub spindle C axis control (standard)
- Sub spindle motor drive

Highly Functional Sub Spindle for Advanced Component Machining !

Main/sub spindle phase synchronization, C-Axis contouring control, sub spindle threading function, etc.

Minimized machining time

- The tool post exclusively designed for back end working enables overlap machining of both the front and rear faces.
- High-speed rapid feed (35m/min) reduces the idle time.

Contributing to a major reduction in production cost

- Amazing cost competitive price only SB can offer :**
 - By achieving efficient volume production, the overwhelming low price is achieved to outclass other producers.
- Base design concept to improve durability**
 - By employing a centralized lubrication method for all ball screw axes and a sealed belt head stock, high durability is ensured.
- User-friendly design for easy maintenance**
 - The machine is designed for ease of maintenance and serviceability.

Sufficient capabilities required for machining

- High rigidity suited to heavy duty cutting and hard material cutting**
 - The tool post with a dovetail grooved guideway ensures a rigid structure.
 - Suited for heavy duty cutting through the 12mm tool shanks and high output motor.
- A wide range of machining**
 - Spindle C axis control (standard).
 - Enhanced machining capabilities such as main/sub spindle phase synchronization and sub spindle threading function.
- Head stock stroke for machining bar materials**
 - The head stock stroke of 205mm (fixed G.B) chucks bar materials at one time for easy machining.
- The Design responds to the needs of long term continuous operation**
 - A large volume swarf area and a large volume coolant tank together with a high power coolant pump are included to achieve a continuous operation for long periods.
- Enhanced standard attachments for "customer satisfaction"**
 - A safety device to prevent a cut-off tool breakage, a product separator and other periphery devices are attached as standard to meet increased needs.

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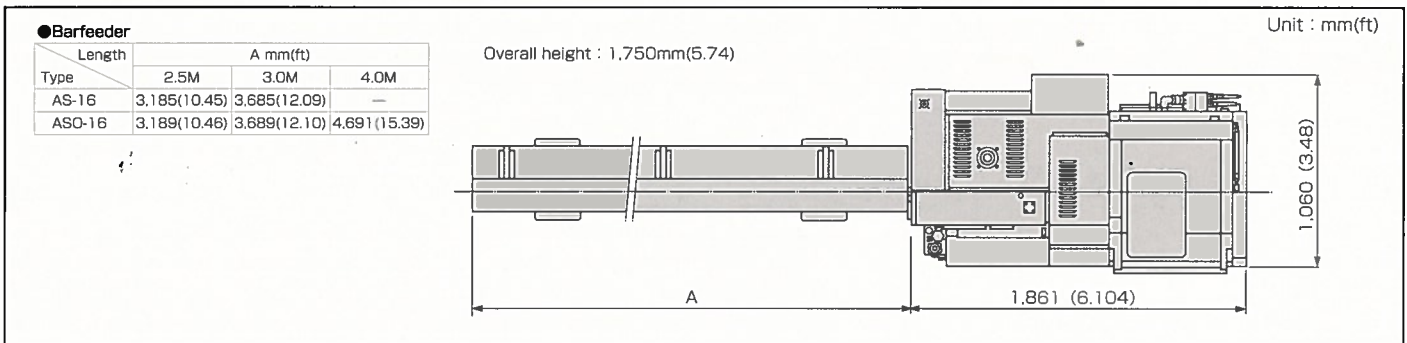
Standard Machine Specifications

Item	Specifications
Max. machining diameter	φ 16mm (5/8in)
Max. headstock stroke	Stationary GB 205mm (8in)
	Revolving GB 155mm (6-3/32in)
Tool	6tools (□12mm) *
4-spindle sleeve holder	Number of tools
	Front 4 tools
	Rear 2 tools (Max. 4 tools)
Max. drilling capacity	φ 10mm (25/64in)
	Max. tapping capacity
Power-driven attachment	Number of tools
	2tools *
	Max. drilling capacity
Max. tapping capacity	M5 × P 0.8
Index angle	C axis/15° : OP
Main spindle speed	Max. 10,000min ⁻¹
Main spindle motor	2.2kw(continuous)/3.7kw(15min.)
Rapid feed rate	35m/min (X, Y, Z, XB, ZB)
Power-driven att. spindle speed	Max. 7,500min ⁻¹
Power-driven att. drive motor	0.4kw
Coolant tank capacity	152 ℓ
Dimensions (W×D×H)	1,861 × 1,060 × 1,750mm
Center height	1,060mm (3.48ft)
Weight	1,700kg
Power consumption	3.0KVA
A-weighted sound pressure	note-1 Max. 70dB (A)

Backworking Attachment Specifications

Item	Specifications
Max. chucking diameter	φ 16mm (5/8in)
Max. length for front ejection	80mm (3-5/32in)
Max. parts projection length	30mm (1-3/16in)
4-spindle sleeve holder	Number of tools
	Max. 4tools
	Max. drilling capacity
Max. tapping capacity	M6 × P 1.0
Sub spindle min. indexing angle	1° : OP
Sub spindle speed	Max. 9,000min ⁻¹
Sub spindle motor	0.55kw/1.1kw

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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Standard Accessories and Functions

1. Pneumatic unit
2. Stand alone type coolant tank
3. Coolant level detector
4. Automatic centralized lubrication unit (with level detector)
5. Door interlock unit
6. Broken cut-off tool detector
7. Back 4-spindle unit
8. 6-station tool holder
9. 4-spindle sleeve holder
10. 2-spindle cross drilling unit
11. Main spindle 1° indexing 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. Short circuit breaker

Optional Accessories and Functions

1. Stationary guide bush unit
2. Drive unit for revolving guide bush
3. Revolving guide bush unit
4. Rotary magic guide bush unit
5. Parts conveyor
6. Long parts ejector with guide tube
7. Barstock gripping unit
8. Automatic barfeeder interface
9. 5-station tool holder
10. Coolant flow detector
11. 3-spindle cross drilling unit
12. Main spindle C-axis control unit
13. Main spindle 15° indexing unit
14. Air purge
15. Water remover
16. Parts separator type A
17. Sub spindle clamp unit
18. Parts ejector (Air cylinder type)
19. Transformer 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 in conforming to EN standard.

● A-weighted sound pressure is a general assessment standard characteristic that corrected the sound level to human acoustic sense.

*5 turning tools + 3 power-driven tools (option)

