

# 58-15 type D

**CNC SWISS TYPE AUTOMATIC LATHE** 



A Tool Post Exclusively Designed for Back End Working to Dramatically Minimize Machining Time



Optimum performance capability at the most cost effective price. This is STAR MICRONICS plan for realising a dynamic price/performance ratio for the next generation of machines.

□ TOOL POST



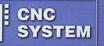
□ WORK SIZE (MAX.)



CONTROL SYSTEM

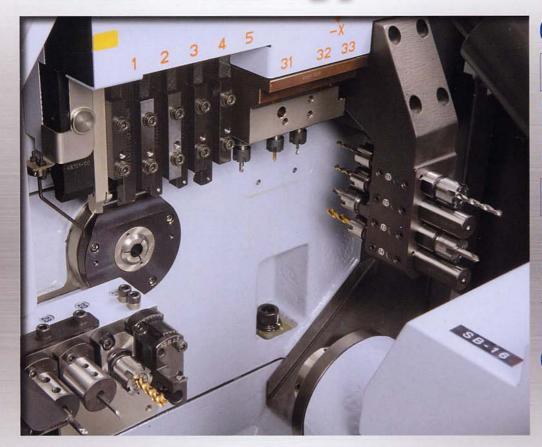






#### **CNC SWISS TYPE AUTOMATIC LATHE**

# **58-15** type D



#### ☐ Gang Tool Post

#### Standard model

- Turning tool · · · · · 6 tools
- Power-driven tool · · · 2 tools
- Front-end working stationary tool · 4 tools
- Rear-end working stationary tool · 2 tools \*

#### **Special specification**

- Turning tool · · · · · 5 tools
- Power-driven tool · · · 3 tools
- Front-end working stationary tool · 4 tools
- Rear-end working stationary tool · 2 tools \*
- Depending of condition, maximum 4 rear-end working stationary tolls can be attached.

### ☐ Back 4-Spindle Unit

Rear-end working stationary tool · 4 tools

SB-16 Type D to Contribute to Major Cost Reduction for Production

# Combining both Cost Effective Price and Competitive Base Specification

#### ■ FEATURE of SB-16 typeD CNC SWISS TYPE AUTOMATIC LATHE

#### Contributing to a major reduction in production cost

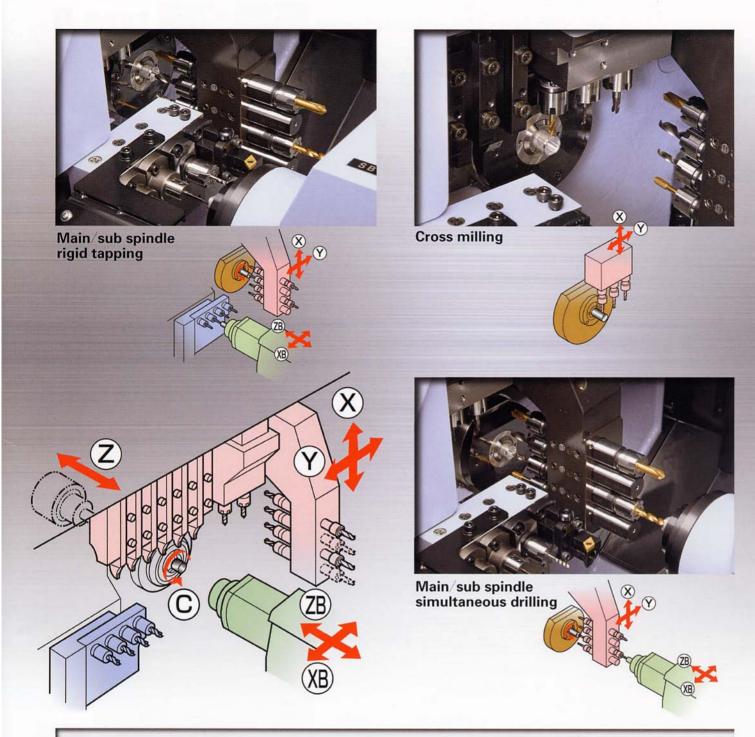
- ☐ Amazing cost competitive price only SB can offer :
- By achieving efficient volume production, the overwhelming low price is achieved to outclass other producers.
- Base design concept to improve durability
- By employing a centralized lubrication method for all ball screw axes and a sealed belt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

### 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.

#### 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
- The spindle C-axis control is optionally available.
- Power tools and back attachments have higher capabilities.
- ☐ 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.



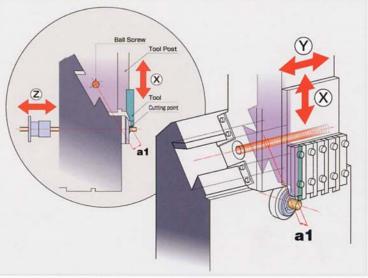
#### HIGH PRECISION

#### **DESIGN**

## 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.



### CNC SWISS TYPE AUTOMATIC LATHE 55-15 type D

#### ■Standard Machine Specifications

Item		Specifications
Max. machining diameter		φ 16mm (5/8in)
Max. heads	stock Stationary GB	205mm (8in)
stroke	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	φ10mm (25/64in)
	Max. tapping capacity	M8×P1.25
Power-driven attachment	Number of tools	2tools *
	Max. drilling capacity	φ6mm (15/64in)
	Max. tapping capacity	M5×P0.8
Main spindle speed		Max. 1 0,000min <sup>-1</sup>
Main spindle motor		2.2kw(continuous)/3.7kw(15min.)
Rapid feed rate		35m/min (X, Y, Z, XB, ZB)
Index angle		15° /1° :OP/C axis: OP
Power-driven att. spindle speed		Max. 7,500min <sup>-1</sup>
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	φ8mm (5/16in)
	Max. tapping capacity	M6×P1.0
Sub spindle speed		Max. 8,000min <sup>-1</sup>
Sub spindle motor		1.0kw

#### Standard Accessories and Functions

- 1. Pneumatic unit
- 2. Stand alone type coolant tank
- 3. Coolant level detector
- 4. Automatic centralized lubrication unit 13. Sub-spindle air purge 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 15" indexing unit
- 12. Sub spindle air blow 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 12. Main spindle C-axis control unit
- 3. Revolving guide bush unit
- 4. Rotary magic guide bush unit 14. Air purge
- 5. Parts conveyor
- 6. Long parts ejector with guide tube
- 7. Barstock gripping unit
- 8. Automatic barfeeder interface 18. Parts ejector (Air cylinder type)
- 9. 5-station tool holder
- 10 Coolant flow detector

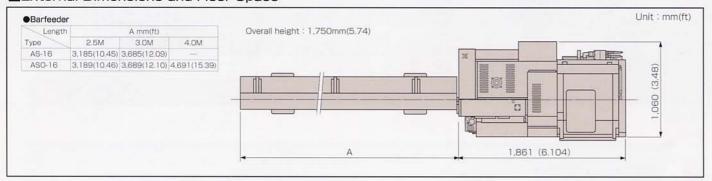
- 11. 3-spindle cross drilling unit
- 13. Main spindle 1° indexing unit
- 15. Water remover
- 16. Parts separator type A
- 17. Sub spindle clamp unit
- 19 Transformer CF marking specifications

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: Measurs in comforting to EN standard.
  - A-weighted sound pressure is a general assessment standard characteristicthat corrected the sound level to human acoustic sense.
- \*5 turning tools + 3 power-driven tools (option)

#### ■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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