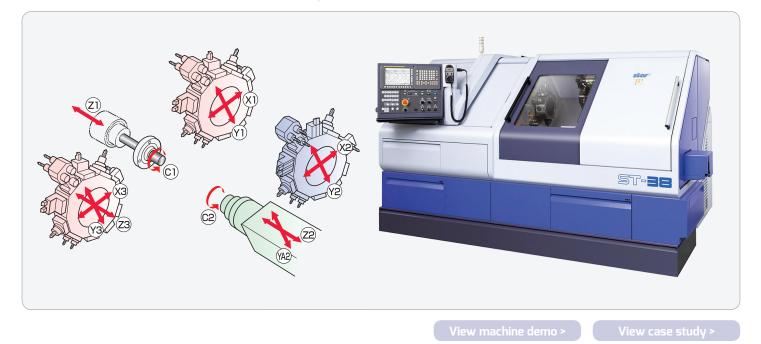


# star

### SWISS TYPE AUTOMATIC LATHE

equipped with Star motion control system



## **High Productivity**

- » Star Motion Control System is a unique control technology which minimizes non-cutting time.
- » Simultaneous machining such as turning, milling etc. is achieved by opposing twin turret tool posts and dramatically reduces the machining time.
- » Adoption of the turret exclusive for back machining enables independent front and back machining, and reduces the cycle time.
- » Mounting multiple tools onto one turret station reduces the number of indexing times and tool change time.
- » Increased rapid traverse rate of each control axis; shortens movement time.

# High Accuracy

- » Spindle Cooling Unit controls thermal displacement by exhausting heat generation of the main and sub spindles out of the machine.
- » Coolant Chiller Unit regulates increases of the machine temperature to restrict thermal displacement.
- » Star Motion Control System minimises vibration during rapid traverse.

# **Machining Capabilities**

- » Possible to machine large bars of 38mm in diameter and 32mm hexagonal bars.
- » The turret exclusive for back machining allows combined machining equivalent to main machining.
- » Combining this machine with a high-pressure coolant unit enables deep-hole drilling (maximum 120mm) on both the front and rear ends.
- » The headstock stroke is 350mm (\*1)
- » The YA2 axis is provided for picking up eccentric parts.

# Operability

- » The operation panel can be turned and moved to an optimum position for the operator.
- » Data can be input/output with the USB memory.
- » Retrace operation with the electronic handwheel makes set-up arrangement easier.



\*1: This length changes to 315mm when the rotary magic guide bush unit is used



### Standard Machine Specifications

Item			Specifications
Max. machining diameter			¢38mm (1-1/2in)
Max. headstock stroke			350mm (13-25/32in)
Front turret		Near side turret	10 stations
tool post		Far side turret	10 stations
Number of turning tools			Max. 2 tools/station (🗌 16mm)
Tool shank			□16mm / □20mm
Sleeve holder	Number of tools		Max. 3 tools/station
	Max. drilling capability		φ23mm (29/32in)
	Max. tapping capability		M12×P1.75
	Max. depth of hole capability		120mm (4-23/32in)
Power driven att.	Number of tools		Max. 2 tools/station
	Max. drilling capability		φ10mm (25/64in)
	Max. tapping capability		M8×P1.25
Main spindle indexing angle			C-axis control
Main spindle speed			Max. 7,000min <sup>-1</sup>
Main spindle motor			Built-in motor drive 7.5kw(continuous)/11kw(10min/25%ED)
Power-driven att. spindle speed			Max. 5,700min <sup>-1</sup>
Power-driven att. drive motor			AC servo drive 2.7kw(continuous)/4.0kw(5min/30%ED)
Coolant tank capability			245 l
Dimensions (Width×Depth×Height)			3,477×1,859×1,865mm
Center height			1,134mm [including leveling pads]
Weight			6,250kg
Power consumption			10.5KVA
A-weighted sound pressure : note-1			Max.71dB(A)

### Backworking Attachment Specifications

	Item	Specifications
Max. chucl	king diameter	¢38mm (1-1/2in)
Max. part p	oick-up length	150mm (5-7/8in)
Max. parts	projection length	75mm (2-15/16in)
Sub spindl	e indexing angle	C-axis control
Sub spindl	e speed	Max. 7,000min <sup>-1</sup>
Sub spindl	e motor	Built-in motor drive 5.5kw(continuous)/7.5kw(10min/40%ED)
Back turret	t tool post	10 station
Number of	turning tools	Max.2 tools/station (🗌 16mm)
Tool shank	<	□16mm / □20mm
Sleeve holder	Number of tools	Max.3 tools/station
	Max. drilling capability	¢23mm (29/32in)
	Max. tapping capability	M12×P1.75
	Max. depth of hole capability	120mm (4-23/32in)
Power driven att.	Number of tools	Max.2 tools/station
	Max. drilling capability	¢10mm (25/64in)
	Max. tapping capability	M8×P1.25
Power-drive	n att. spindle speed	Max. 5,700min <sup>-1</sup>
Power-driv	en att. drive motor	AC servo drive 2.7kw(continuous)/4.0kw(5min/30%ED)

#### Standard Accessories and Functions

- 1. CNC unit
- FANUC Series 30i-A
- 2. Operation panel 10.4-inch color LCD display
- 3. Main/Sub collet
- 4. Revolving guide bush unit
- 5. Main/Sub spindle C-axis control unit
- 6. Main/Sub spindle clamp unit
- 7. Main/Sub spindle cooling unit
- 8. Coolant chiller
- 9. Air purge unit
  - (guide bush unit / sub spindle)

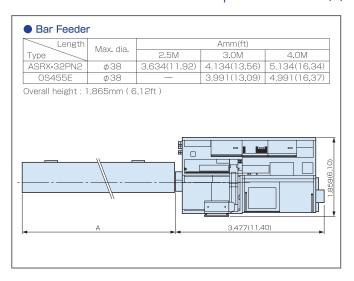
- 10. Parts separator
- 11. Parts conveyor
- 12. Automatic centralized lubrication unit
- 13. Coolant level detector (lower limit)
- 14. Door interlock system
- 15. Broken cutoff tool detector
- 16. Leakage breaker
- 17. Automatic bar feeder interface18. High pressure coolant interface
- **Optional Accessories and Functions**
- 1. Tool unit for turret
- 2. Tool presetter
- 3. Rotary magic guide bush unit
- 4. Coolant unit 6.9MPa
- 5. Coolant unit 1.5MPa
- 6. Coolant piping for turret tool post
- 7. Parts ejector with guide tube
- 8. Parts ejector (spring type/air cylinder type)
- ol post

11. Beacon

9. Parts ejection detector

10. Coolant flow detector

## 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.



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