

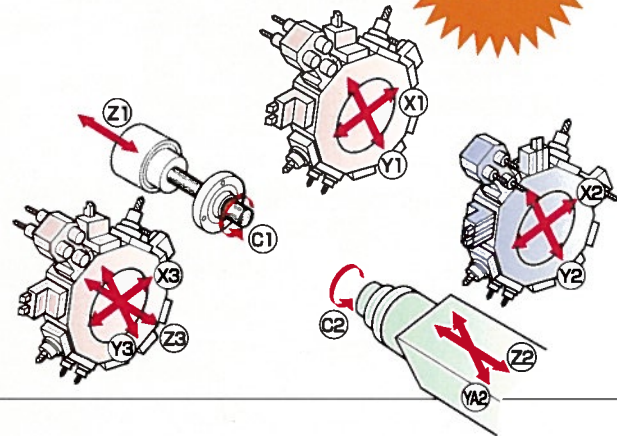
SWISS TYPE AUTOMATIC LATHE
equipped with Star motion control system

ST-38

Triple turret design to capitalise on the capability of simultaneous machining.

Deep-hole drilling (Max. 120mm) on front and rear ends of component parts.

Ø38mm Bar capacity machine developed to extend the Star 'multi-turret' concept.



Multi Turret model for larger Dia. components enables greater capability for machining components for the Medical, Automotive and Aviation industries.

Turret exclusively designed for back-end working. Multiple capability of main and back-end working revolutionises the configuration of complex machining.

Higher Productivity

- Simultaneous machining such as turning, milling etc. achieved by opposed twin turret design tool post dramatically reduces the machining time.
- Independent machining of front and rear ends by back-working turret reduces the cycle time yet further.
- Design layout of tooling around the turret reduces the number of indexing times and tool change time.
- STAR Motion Control System reduces idle time.
- Latest CNC control reduces program process time.

Machining Capability

- Ideally suited for machining of 38mm Dia. and 32mm Hex. bars.
- Back-working turret enhances complex machining capability on the rear side.
- Combined with a high-pressure coolant unit enables deep-hole (maximum 120mm) drilling on both the front and rear ends.

Higher Accuracy

- Coolant Chiller Unit stabilises temperature of the coolant which is heated during operation.
- STAR Motion Control System minimises vibration during rapid traverse.

Operability

- Operation Panel can be positioned at the most suitable position for the operator.
- Movable Operation Panel extends work space and adds comfort for the operator.
- Manual Pulse Generator makes set-up arrangement easier.

Environmental Measures

- Energy-saving hydraulic unit reduces the standby power consumption.
- High productivity contributes to energy conservation per component.
- Powder coating and RoHS compliant components adopted to reduce impact on the environment.

Max. machining Dia. is 38mm! Complex machining for extra large parts with high speed and universal control.

Standard Machine Specifications

Item	Specifications	
Max. machining diameter	φ38mm (1-1/2in)	
Max. headstock stroke	350mm (13-25/32in)	
Front working turret tool post	10 stations	
Back 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
Power driven att.	Max. depth of hole capability	120mm (4-23/32in)
	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 ⁻¹	
Main spindle motor	Built-in motor drive 7.5kw(continuous)/11kw(25%ED)	
Power-driven att. spindle speed	Max. 5,700min ⁻¹	
Power-driven att. drive motor	AC servo drive 2.7kw(continuous)/4.0kw(5min/30%ED)	
Coolant tank capability	245ℓ	
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. 71 dB(A)	

Backworking Attachment Specifications

Item	Specifications	
Max. chucking diameter	φ38mm (1-1/2in)	
Max. length for front ejection	150mm (5-7/8in)	
Max. parts projection length	75mm (2-15/16in)	
Sub spindle indexing angle	C-axis control	
Sub spindle speed	Max. 7,000min ⁻¹	
Sub spindle motor	Built-in motor drive 5.5kw(continuous)/7.5kw(40%ED)	
Back working turret 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	φ23mm (29/32in)
	Max. tapping capability	M12×P1.75
Power driven att.	Max. depth of hole capability	120mm (4-23/32in)
	Number of tools	Max.2 tools/station
	Max. drilling capability	φ10mm (25/64in)
	Max. tapping capability	M8×P1.25
Power-driven att. spindle speed	Max. 5,700min ⁻¹	
Power-driven att. drive motor	AC servo drive 2.7kw(continuous)/4.0kw(5min/30%ED)	

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

*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.

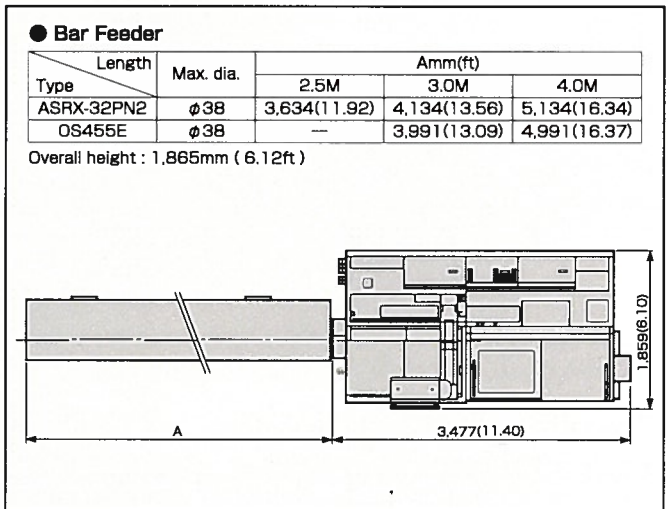
Standard Accessories and Functions

- CNC unit
FANUC Series 30i-A
- Operation panel
10.4-inch color LCD display
- Main/Sub collet
- Revolving guide bush unit
- Main/Sub spindle C-axis control unit
- Main/Sub spindle clamp unit
- Main/Sub spindle chiller
- Coolant chiller
- Air purge unit
(guide bush unit / sub spindle)
- Parts separator
- Parts conveyor
- Automatic centralized lubrication unit
- Coolant level detector (lower limit)
- Door interlock system
- Broken cutoff tool detector
- Leakage breaker
- Automatic bar feeder interface
- High pressure coolant interface

Optional Accessories and Functions

- Tool unit for turret
- Tool presetter
- Rotary magic guide bush unit
- Coolant unit 6.9MPa
- Coolant unit 1.5MPa
- Coolant piping for turret tool post
- Parts ejector with guide tube
- Parts ejector (spring type/air cylinder type)
- Parts ejection detector
- Coolant flow detector
- Beacon

External Dimensions and Floor Space unit : mm(ft)



STAR MICRONICS CO., LTD.

Machine Tools Division

1500-34 Kitanoya, Misawa, Kikugawa, Shizuoka, 439-0023 Japan

America, Europe Sales TEL.+81-537-36-5594 FAX.+81-537-36-5607

Asia Sales TEL.+81-537-36-5574 FAX.+81-537-36-5607

Star CNC Machine Tool Corporation
123 Powerhouse Road, Roslyn Heights, NY 11577, U.S.A.
TEL.+1-516-484-0500 FAX.+1-516-484-5820

Star Micronics GB Limited
Chapel Street, Melbourne, Derbyshire DE74 8JF, U.K.
TEL.+44-1332-86-44-55 FAX.+44-1332-86-40-05

Star Micronics GmbH
Untere Reute 44, D-75305 Neuenbürg, Germany
TEL.+49-7082-79200 FAX.+49-7082-792020

Star Micronics AG
Lauetstrasse 3, CH-8112 Otelfingen, Switzerland
TEL.+41-43-411-60-60 FAX.+41-43-411-60-66

Star Machine Tool France SAS
55 Avenue du Mont Blanc, F-74950 Scienczler, France
TEL.+33-450-96-05-97 FAX.+33-450-96-91-54

Shanghai Xingang Machinery Co., Ltd.
229 Fute Road(N) Waigaoqiao F. T. Z. Shanghai 200131, P.R.China
TEL.+86-21-5868-2100 FAX.+86-21-5868-2101

Star Micronics (Thailand) Co., Ltd.
49/30 M.4 Soi Kingkaew 30, Kingkaew RD., T.Rachathewa A.Bangplee, Samutprakarn 10540, Thailand
TEL.+66(0)2-750-4083 FAX.+66(0)2-750-4085



<http://www.star-m.jp/eng/>