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High productivity

- » **Opposing gang-type tool post**
Thanks to simultaneous machining (turning + drilling) by independently controlled opposing gang-type tool posts, machining time is drastically reduced.
- » **Back working tool post (with Y-axis control) exclusively designed for 8-spindle capability**
The machine employs a tool post (with Y-axis control) which is exclusively designed for 8-spindle back working. It enables efficient separation division through enhanced simultaneous machining on both the front and rear sides.
- » **Star Motion Control System**
The unique control technology known as the Star Motion Control System achieves a smooth and uninterrupted tool path and achieves shortened non-cutting time.
- » **Electric Drives**
By eliminating hydraulically driven equipment and introducing electrically-driven equipment, idle time between each axis operation is reduced and energy saving is achieved.
- » **Chucking unit**
The collet can be opened/closed without decreasing the spindle rotation speed, thus reducing the non-cutting time at the time of spindle acceleration/deceleration.

Strengthened machining capability

- » **A tool post (with Y-axis control) exclusively designed for 8-spindle back working**
The tool post designed for back working can accommodate a maximum of 6 power-driven tools to allow versatile complex machining (cross milling, slotting, etc.) on the rear side.
- » **High-power sub spindle**
The sub spindle employs a spindle motor with the same power as the main spindle. This improves the machining capability on the back side and accommodates the machining of a range of difficult materials.
- » **Machining of demanding materials**
In combination with a high-pressure coolant unit (optional), this model is suited to the machining of a range of exotic materials.



Standard Machine Specifications

Item		Specifications
Max. machining diameter		φ20mm(25/32in)
Max. headstock stroke		205mm(8in)
Tool post configuration	Front	Turning tool + Power-driven tool
	Rear	Turning tool+4-spindle sleeve holder+Power-driven tool
Tool	Number of tools	Front 4 tools Rear 2 tools
	Tool shank	□12mm / □16mm
4-spindle sleeve holder	Number of tools	Front 4 tools Rear 2 tools(Max.4 tools)
	Max. drilling capability	φ10mm(25/64in)
	Max. tapping capability	M8×P1.25
Power-driven att.	Number of tools	Front 3 tools Rear 3 tools
	Max. drilling capability	φ8mm(5/16in)
	Max. tapping capability	M6×P1.0
	Max. milling capability	φ10mm(25/64in)
	Max. slotting capability	1.5mm(W)×4mm(D)
Main spindle indexing angle		C-axis control
Main spindle speed		Max.10,000min ⁻¹
Main spindle motor		Built-in motor drive 2.2kw(continuous)/3.7kw(10min./25%ED)
Rapid feed rate		35m/min(X2,Z1,Z2,Y1,Y3), 20m/min(X1,Y2,X3,Z3)
Power-driven att. spindle speed		Max.8,000min ⁻¹
Power-driven att. drive motor		1.0kw(continuous)/1.2kw(5min./30%ED)
Coolant tank capacity		150ℓ
Dimensions (W×D×H)		2,588×1,300×1,765mm
Center height		1,040mm(3.41ft)
Weight		3,400kg
Power consumption		4.8KVA
A-weighted sound pressure : note-1		Max.70dB (A)

Backworking Attachment Specifications

Item		Specifications
Max. chucking diameter		φ20mm(25/32in)
Max. length for front ejection		80mm(3-5/32in)
Max. parts projection length		30mm(1-3/16in)
Back 8-spindle unit	Number of Stationary tool tools	Max.8 tools
	Power driven tool	Max.6 tools
Max. drilling capability	Stationary tool	φ10mm(25/64in)
	Power driven tool	φ8mm(5/16in)
Max. tapping capability	Stationary tool	M8×P1.25
	Power driven tool	M6×P1.0
Sub spindle indexing angle		C-axis control
Sub spindle speed		Max.10,000min ⁻¹
Sub spindle motor		Built-in motor drive 2.2kw(continuous)/3.7kw(10min./25%ED)
Power-driven att. spindle speed		Max.8,000min ⁻¹

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.

Standard Accessories and Functions

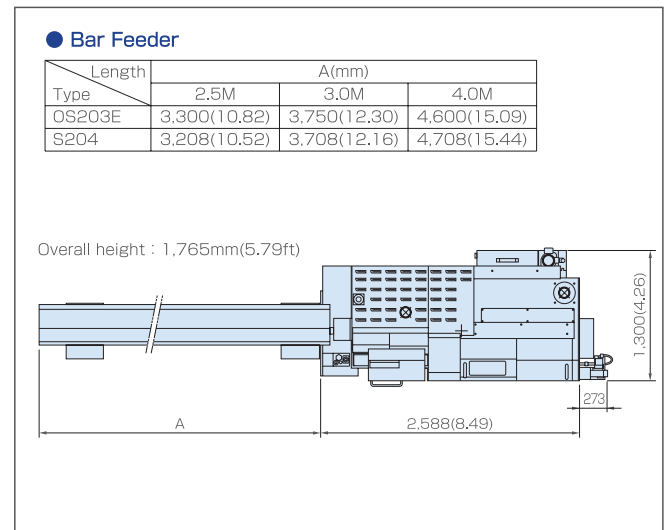
- CNC unit FANUC 31i-B5
- Operation panel 10.4-inch color LCD display
- Drive unit for revolving guide bush
- C-axis control unit (Main/Sub)
- Spindle clamp unit (Main/Sub)
- Drive system for power-driven tool (for the tool posts 1 and 2)
- 4-Spindle sleeve holder
- Back 8-Spindle unit
- Drive system for power-driven tool (for Back 8-spindle unit)
- Automatic centralized lubrication unit
- Door interlock system
- Coolant level detector (lower limit)
- Broken cutoff tool detector
- Leakage breaker
- Air purge for revolving guide bush
- Pneumatic unit
- Sub spindle air purge unit
- Sub spindle air blow unit
- Work light
- Parts separator

Optional Accessories and Functions

- Revolving guide bush
- Collet (Main/Sub)
- 2-station tool holder (□12mm/□16mm)
- 4-station tool holder (□12mm/□16mm)
- Parts conveyor
- Parts ejector A
- Parts separator unit A
- Barstock gripping unit
- Parts ejector with guide tube
- Parts stopper unit
- Coolant unit 1.5MPa
- Coolant unit 6.9MPa
- Coolant pipings
- Main spindle inner tube
- Coolant flow detector
- Parts ejection detector
- Warning light
- Water separator
- Compliant with the RS-232C interface

External Dimensions & 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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