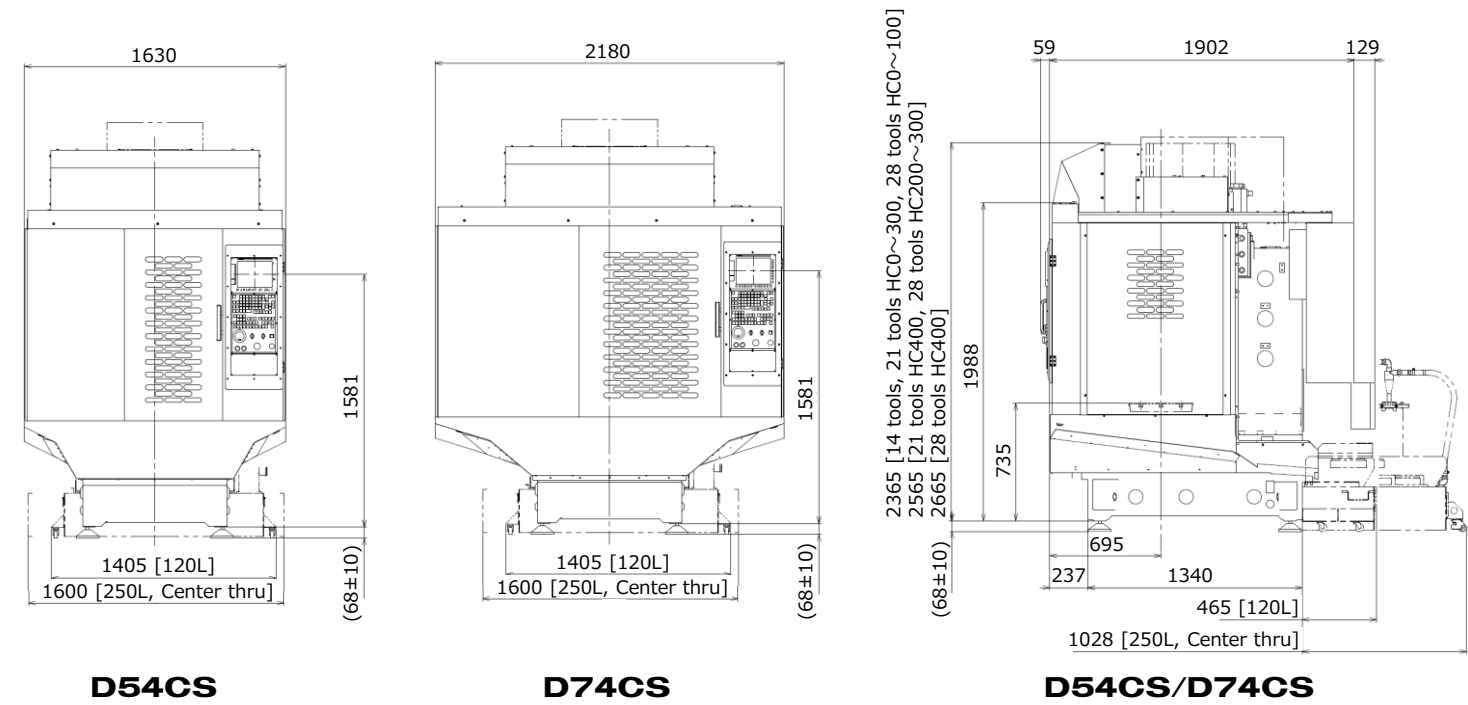


Specification

| Item | | D54CS | D74CS |
|---------------------|---|---|---|
| Capacity | Travel of axes | X : 500 mm Y : 400 mm Z : 330 mm (400 mm) *option | X : 700 mm Y : 400 mm Z : 330 mm (400 mm) *option |
| Table | Working space | 650 mm × 400 mm | 850 mm × 400 mm |
| | Capacity of workpiece mass | 300 kg (400 kg) *option | 300kg (400 kg) *option |
| Spindle | | Basic: Max. 10,000 min ⁻¹ /Continuous rating 3.7 kW/1 minute rating 13 kW High torque: Max. 10,000 min ⁻¹ /Continuous rating 4.0 kW/1 minute rating 15.5 kW High acceleration: Max. 12,000 min ⁻¹ /Continuous rating 10 kW/1 minute rating 34 kW Tapping: Max. 12,000 min ⁻¹ /Continuous rating 10 kW/1 minute rating 34 kW High speed: Max. 24,000 min ⁻¹ /Continuous rating 4.5 kW/1 minute rating 26 kW | |
| Rapid traverse rate | | X,Y : 54 m/min Z : 60 m/min *changes by tool weight setting | |
| Turret | Max. tool mass [total mass] | 28 tools: 1.5 kg[24 kg], 2 kg[30 kg], 3 kg[38 kg], 4 kg[46 kg] *only Servo turret 21 tools: 2 kg[23 kg], 3 kg[33 kg], 4 kg[46 kg] 14 tools: 2 kg[15 kg], 3 kg[22 kg], 4 kg[30 kg] | |
| | Tool change time (Tool to Tool) | 28 tools: 0.7 s / 21 tools: 0.6 s / 14 tools: 0.6 s *with fastest setting of Servo turret | |
| Accuracy | Bidirectional accuracy of positioning of an axis | Less than 0.006 mm *ISO230-2:1988 | |
| | Bidirectional repeatability of positioning of an axis | Less than 0.004 mm *ISO230-2:1997,2006 | |
| Control unit | | FANUC Series 31i-B5 Plus | |
| Machine size | Machine height | 2433 mm ±10mm *when without high-column | |
| | Floor space | 1630 mm × 2090 mm | 2180 mm × 2090 mm |
| | Mass of machine | Approx. 2050 kg | Approx. 2150 kg |



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High-Reliability and High-Performance Compact Machining Center

FANUC ROBODRILL DC series

A large red diagonal banner with the text "New Model" in white, slanted font, spanning the top half of the slide.

D54CS

X-axis stroke:500mm
Y-axis stroke:400mm

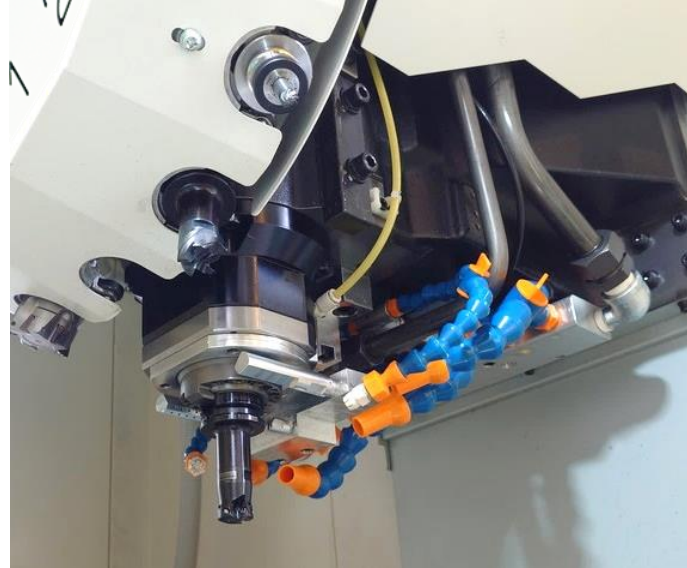
Full model change

The Brand New ROBODRILL



D74CS

X-axis stroke:700mm
Y-axis stroke:400mm



Cycle time reduction technology

Level-up of feed axes

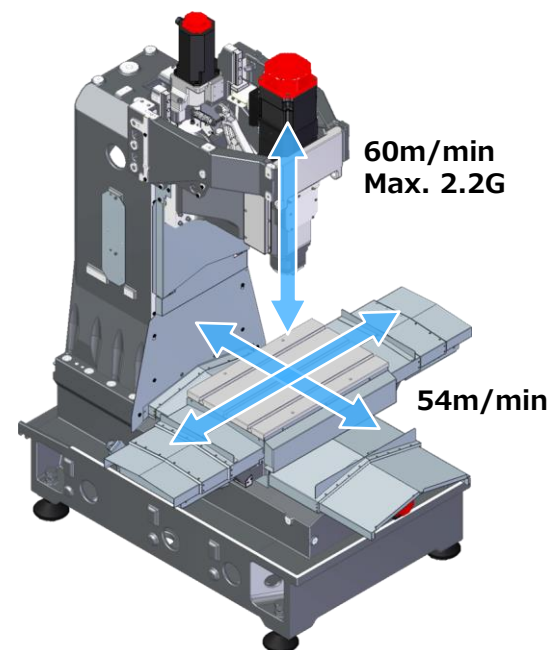
- Z-axis speed 60m/min, Max. acceleration 2.2G
XY-axes acceleration are also enhanced
- Smooth transition between paths by Smart overlap 2

New High-acceleration spindle

- Max. speed 12,000min⁻¹
Continuous rating 10kW and 1 minute rating 34kW
- New high-rigidity spindle unit is ideal for high-efficiency machining of aluminum parts

New G-codes

- The new G-codes, well received in the DiB Plus series, has been taken to the next level!
- More efficient machining is achieved by G181 new mode with new technology to shortens non-cutting time, and the new canned cycles



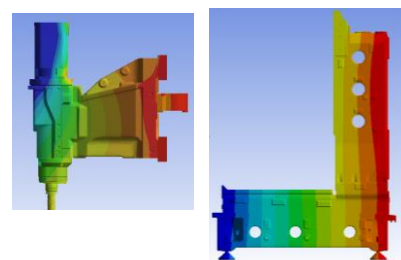
Thermal displacement control technology

New mechanism reducing thermal displacement

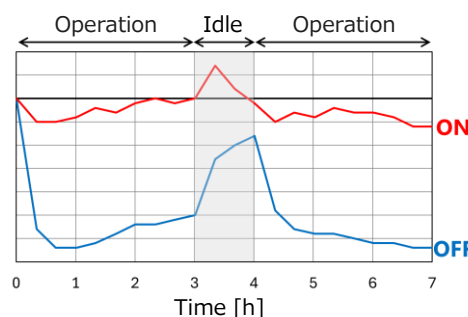
- Thermal displacement itself is reduced by redesigning structure of drive system
- Reduction of 'tilt' by reviewing the structural components using heat transfer analysis, makes it easier to compensate thermal displacement.

New thermal displacement compensation

- Estimation formula for thermal displacement has been refined, improving compensation accuracy.
- Temperature sensors equipped as standard, enable real time tracking room temperature.
- Stable machining is achieved without warming-up machine, contributing to energy savings.



'Easy to compensate' components



Example of compensation result
(Z-axis, temperature drift 5°C)

Measures against chips

New machine cover

- Pursuing the chip evacuation, thoroughly eliminating areas where chips accumulate.

Improvement of coolant options

- New concept nozzles for efficient chip flush have been adopted, replacing the internal piping which was one of the areas of chip accumulation.
- New center-through coolant unit that applies a cyclone filter for reducing maintenance and longer life



Chip flush

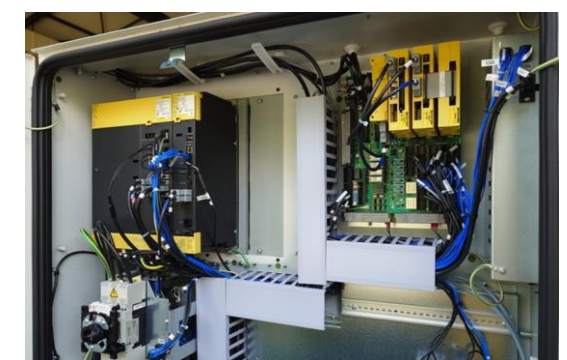
Other features

FANUC's latest Servo system

- ai-D series servo with improved motor output and energy efficiency has been adopted
- Integrated amplifier reduces occupying space in the cabinet and enhances expandability for system integration.

Machining mode setting function 2

- The popular machining mode setting function has also been tuned and added new functions to suit the new model.
- With intuitive screen operation, even beginners can easily and reliably improve productivity.



Latest information of ROBODRILL
is available on our website.

<https://www.fanuc.co.jp/en/product/robodrill/index.html>