

High-Reliability and High-Performance
Compact Machining Center

FANUC ROBODRILL DC series

NEW



D116CS

X-stroke: **1100mm**

Y-stroke: **600mm**

Z-stroke: **400mm**

Long-awaited new lineup

Wide stroke model

Features

Largest stroke ROBODRILL ever

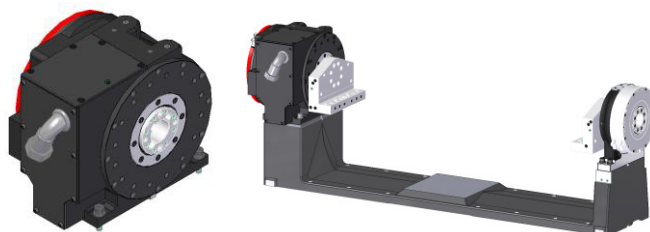
- Expanded X/Y strokes for larger workpieces
- Table working space is also enlarged
- Productivity is maintained through high-rigidity mechanism and latest technologies
- Z-axis acceleration of up to 2.4G



DDR-T for high-inertia

NEW

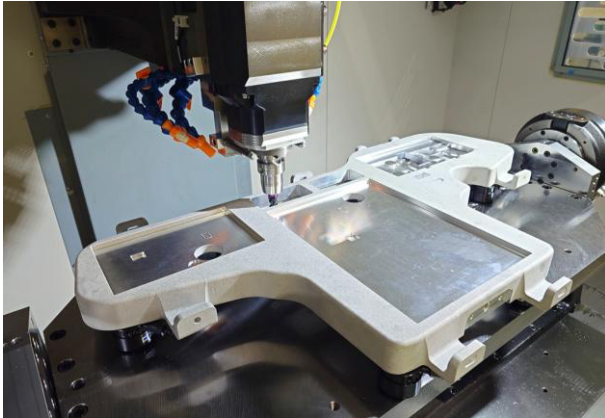
- Newly developed High-torque DDR is applied to accommodate increasingly large workpieces and fixtures
- Max. torque 585N·m
- Max. loading mass 300kg
- Max. turning diameter $\Phi 640\text{mm}$



Demonstration

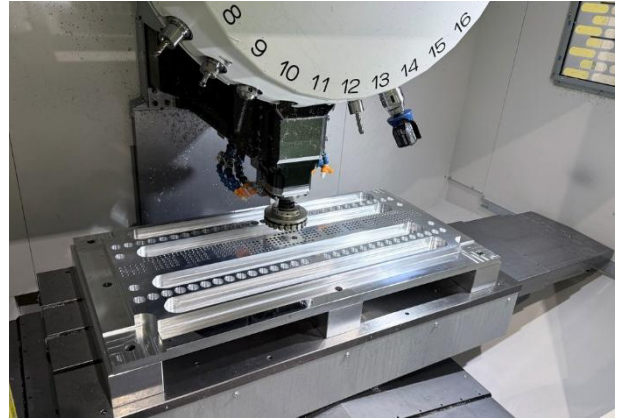
Process integration of large workpiece

- High-speed indexing of large and heavy fixture with DDR-T for high-inertia
- Productivity enhancement through the high-speed operation unique to Robodrill



High-efficiency machining of Aluminum parts

- High-speed milling through the high-rigidity mechanism of DC series
- High-efficiency process by Robodrill G-codes



Specification

Item		D116CS
Capacity	Travel of axes (X × Y × Z)	1100 mm × 600 mm × 400 mm
Table	Working space	1250 mm × 600 mm
	Capacity of workpiece mass	600 kg
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 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
ATC	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] *only Spindle turret
	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 0.0065 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	2618 mm ±10mm *when without high-column
	Floor space	2710 mm × 2460 mm
	Mass of machine	Approx. 3550 kg

All specifications are subject to change without notice.

3580, Shibokusa, Oshino-mura, Minamitsuru-gun, Yamanashi, 401-0597, Japan
 Phone: (+81)555-84-5555

FANUC

<https://www.fanuc.co.jp/>