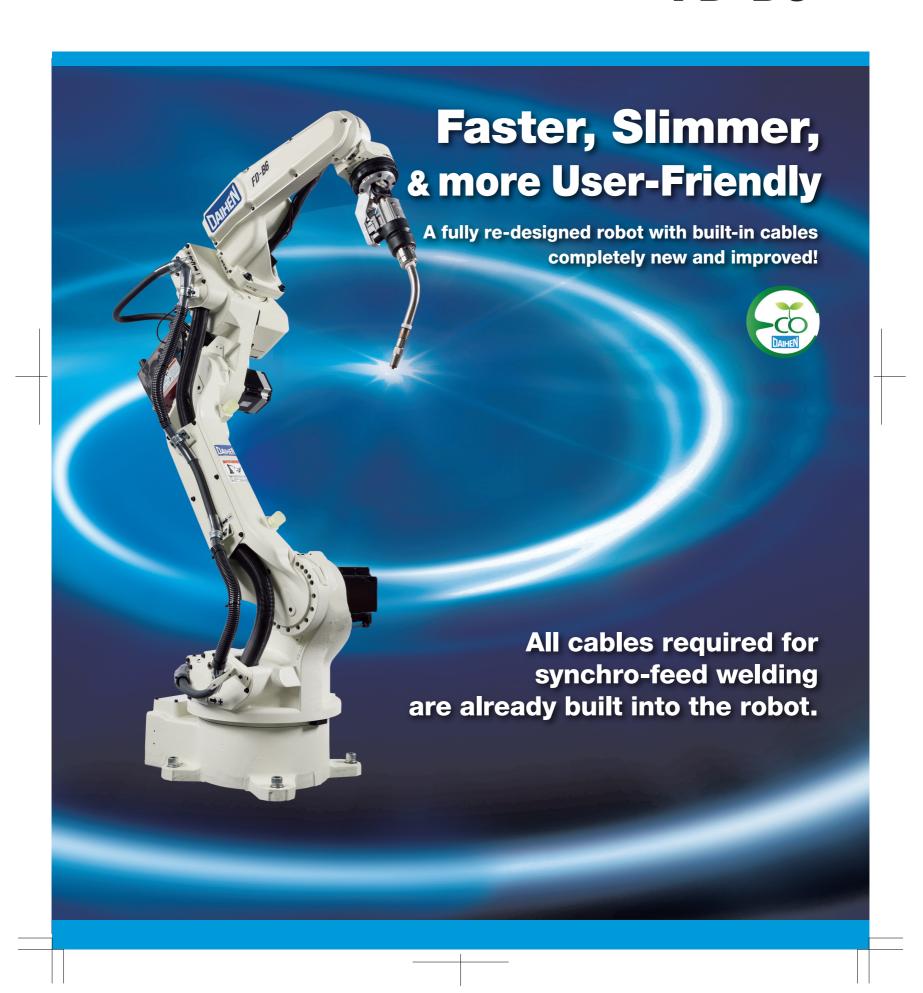


Almega Friendly series

Arc Welding Robot FD-B6



A fully re-designed robot with built-in cables completely new and improved!

Faster cycle time

Due to the industry's fastest speeds, cycle times are reduced.

Slim design

Built-in wrist motors avoid interference with jigs and workpieces.

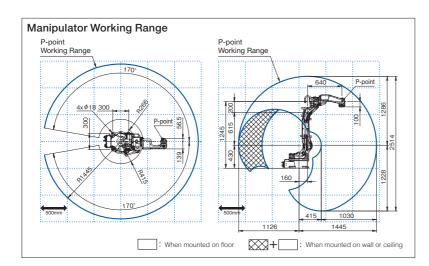
User-friendly operation

Designed to avoid interference behind the arm (All cables required for synchro-feed welding are already built into the robot)

Stronger structure

Payload increased 1.5X for various range of welding tasks.

It also is good for handling application.



Manipulator Specifications

			FD-B6
Structure			Vertical articulated type
	Number (of Axes	6
Ma	x. Payloa	d Capacity	6 kg
Pos	itional Re	epeatability	±0.08mm (Note 1)
	Drive S	ystem	AC servomotor
	Drive Ca	apacity	3132 W
F	osition F	eedback	Absolute encoder
(1)	Arm	J1 (Rotation)	±170°(±50°) (Note 2)
Working Range		J2 (Lower Arm)	-155° to +90° (Note 3)
J.R.		J3 (Upper Arm)	-170° to +245° (Note 4)
king	Wrist	J4 (Swing)	±155°(±170°) (Note 5)
Nor		J5 (Bending)	-45° to +225° (Note 6)
		J6 (Twist)	±205°(±360°) (Notes 5 and 6)
p	Arm	J1 (Rotation)	4.19rad/s {240°/s} (3.32rad/s {190°/s}) (Note 2)
Maximum Speed		J2 (Lower Arm)	4.19rad/s {240°/s}
S ۲		J3 (Upper Arm)	4.01rad/s {230°/s}
mm	Wrist	J4 (Swing)	7.50rad/s {430°/s}
laxi		J5 (Bending)	7.50rad/s {430°/s}
2		J6 (Twist)	11.00rad/s {630°/s}
ad	Allowable Moment	J4 (Swing)	10.5 N•m
e Lc			10.5 N·m
vabl		J6 (Twist)	5.9 N•m
è	Allowable Moment of Inertia	J4 (Swing)	0.28kg·m²
Wrist Allowable Load			0.28 kg • m ²
≶		J6 (Twist)	0.06kg·m²
Arm	Arm Cross-sectional Area		3.59m ² × 340°
	Ambient C	Conditions	Temp: 0 to 45°C, Hmd: 20 to 80%RH (No Condensation)
	Mass (weight)	145kg
Uppe	r Arm Pa	yload Capacity	10 kg (Note 7)
	Installati	on Type	Floor, wall, or ceiling
	Paint	Color	White (Munsell notation 10GY 9/1)

- Notes

 1. Positional repeatability of the tool center point (TCP) value complies with the JIS-B-8432 Standard.

 2. Specifications for wall mounting appear in parentheses.

 3. The working range of the J2 axis may be restricted when wall-mounted.

 4. When this unit is mounted on the floor, the working range of the J3 axis is restricted to between -170° and +180°.

 5. This specification applies when a single-wire power cable is fed through the hollow part of J4 and J6. The value in parentheses represents all other specifications.

 6. The working range of the J6 axis may be restricted by the specific posture of the J5 axis.

 7. The capacity of the upper arm varies with the wrist capacity.

In accordance with DAIHEN's policy to make continuing improvements, design and/or specifications are subject to change without notice and without any obligation on the part of manufacturer.

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