

Almega Friendly series

Arc Welding Robot FD-B6L



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

Faster cycle time

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

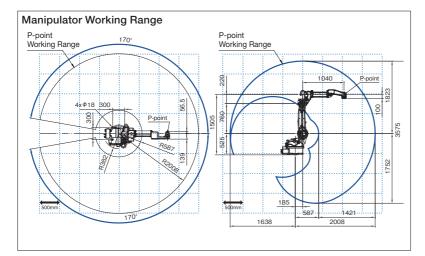
Slim design

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 Maximum payload is 6kg. Can be equipped with various torches and sensors. It is good for handling application.



Manipulator Specifications

		FD-B6L
Structure		Vertical articulated type
Number of Axes		6
Max. Payload Capacity		6kg
Positional Repeatability		±0.08mm (Note 1)
Drive System		AC servomotor
Drive Capacity		4832W
Position Feedback		Absolute encoder
(I)	J1 (Rotation)	±170° (±50°) (Note 2)
E Arm	J2 (Lower Arm)	-155°~+100° (Note 3)
×	J3 (Upper Arm)	−170°~+190°
Working Range Mist	J4 (Swing)	±155°(±170°) (Note 4)
	J5 (Bending)	−45°~+225° (Note 5)
	J6 (Twist)	±205°(±360°) (Note 4, 5)
Maximum Wrist	J1 (Rotation)	3.40rad/s (3.05) {195°/s (175°/s) } (Note 2)
	J2 (Lower Arm)	3.49rad/s{200°/s}
	J3 (Upper Arm)	3.49rad/s{200°/s}
	J4 (Swing)	7.50rad/s{430°/s}
	J5 (Bending)	7.50rad/s{430°/s}
	J6 (Twist)	11.00rad/s{630°/s}
Musent Allowable Load Allowable Load Allowable Moment of Inertia	J4 (Swing)	10.5N•m
		10.5N•m
	J6 (Twist)	5.9N•m
	e J4 (Swing)	0.28 kg • m ²
tsi viomen	J5 (Bending)	0.28 kg • m ²
Inertia	J6 (Twist)	0.06kg • m ²
Arm Cross-sectional Area		6.37m ² × 340°
Ambient Conditions		Temp: 0 to 45°C, Hmd: 20 to 80%RH (No Condensation)
		278kg
Mass	(weight)	Liong
Mass	(weight) ayload Capacity	20kg (Note 6)
Mass Upper Arm F Install	(0)	Ü

- Standard.

 2. Specifications for wall mounting appear in parentheses.

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

 4. 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.

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

 6. 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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