

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

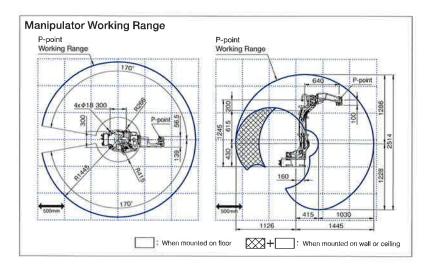
Built-in wrist motors avoid interference with jigs and workpieces.

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
Max, Payload Capacity			6 kg
Positional Repeatability			±0.08mm (Note 1)
Drive System			AC servomotor
Drive Capacity			3132 W
Position Feedback			Absolute encoder
Working Range	Arm	J1 (Rotation)	±170°(±50°) (Note 2)
		J2 (Lower Arm)	-155° to +90° (Note 3)
		J3 (Upper Arm)	-170° to +245° (Note 4)
	Wrist	J4 (Swing)	±155°(±170°) (Note 5)
		J5 (Bending)	-45° to +225° (Note 6)
		J6 (Twist)	±205°(±360°) (Notes 5 and 6)
Maximum Speed	Arm	J1 (Rotation)	4.19rad/s [240°/s] (3,32rad/s [190°/s]) (Note 2)
		J2 (Lower Arm)	4,19rad/s (240°/s)
		J3 (Upper Arm)	4.01rad/s [230°/s]
	Wrist	J4 (Swing)	7.50rad/s [430°/s]
		J5 (Bending)	7.50rad/s [430°/s]
		J6 (Twist)	11.00rad/s 630°/s
Wrist Allowable Load	Allowable Moment	J4 (Swing)	10.5N·m
		J5 (Bending)	10.5N·m
		J6 (Twist)	5.9 N·m
	Allowable Moment of Inertia	J4 (Swing)	0,28 kg · m ²
		J5 (Bending)	0,28kg·m²
		J6 (Twist)	0.06kg·m²
Arm Cross-sectional Area			3,59m ² ×340°
Ambient Conditions			Temp: 0 to 45°C, Hmd: 20 to 80%RH (No Condensation
Mass (weight)			145kg
Jpper Arm Payload Capacity			10 kg (Note 7)
Installation Type			Floor, wall, or ceiling
Paint Color			White (Munsell notation 10GY 9/1)

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

- 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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