

Almega Friendly series Arc Welding Robot FD-B6L

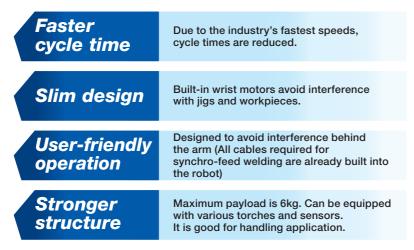
Faster, Slimmer more User-Friendly

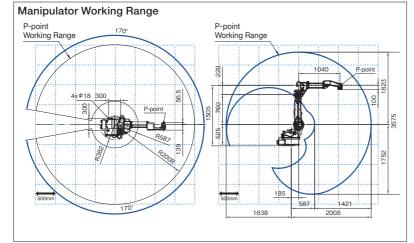
A fully redesigned robot with built-in cables — completely new and improved!



Best for large structures by its long arm All cables required for synchro-feed welding are already built into the robot.

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





| | | | FD-B6L |
|----------------------------|-------------------------|----------------|--|
| | Struc | ture | Vertical articulated type |
| | Number of Axes | | 6 |
| Max. Payload Capacity | | ad Capacity | 6kg |
| Positional Repeatability | | epeatability | ±0.08mm (Note 1) |
| Drive System | | system | AC servomotor |
| Drive Capacity | | apacity | 4832W |
| Position Feedback | | eedback | Absolute encoder |
| d) | Arm | J1 (Rotation) | ±170° (±50°) (Note 2) |
| Working Range | | J2 (Lower Arm) | -155°~+100° (Note 3) |
| | | J3 (Upper Arm) | -170°~+190° |
| | Wrist | J4 (Swing) | ±155°(±170°) (Note 4) |
| Vorl | | J5 (Bending) | -45°~+225° (Note 5) |
| > | | J6 (Twist) | ±205°(±360°) (Note 4, 5) |
| Maximum Speed | Arm | 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} |
| mur | Wrist | J4 (Swing) | 7.50rad/s{430°/s} |
| laxi | | J5 (Bending) | 7.50rad/s{430°/s} |
| Σ | | J6 (Twist) | 11.00rad/s{630°/s} |
| ad | Allowable Moment | J4 (Swing) | 10.5N•m |
| Wrist Allowable Load | | J5 (Bending) | 10.5N•m |
| | | J6 (Twist) | 5.9N•m |
| | Moment of Inertia | J4 (Swing) | 0.28 kg • m ² |
| | | J5 (Bending) | 0.28 kg • m ² |
| | | J6 (Twist) | 0.06kg • m ² |
| Arm Cross-sectional Area | | | $6.37m^2 	imes 340^\circ$ |
| Ambient Conditions | | | Temp: 0 to 45°C, Hmd: 20 to 80%RH (No Condensation |
| Mass (weight) | | | 278kg |
| Upper Arm Payload Capacity | | | 20kg (Note 6) |
| Installation Type | | | Floor, wall, or ceiling |
| | Paint | Color | White (Munsell notation 10GY 9/1) |

ability of the tool center point (TCP) value complies with the JIS-B-8432 al repe

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.

| DAIHEN Corporation | Distributed by: |
|---|-----------------|
| 4-1, Koyocho-nishi, Higashinada-ku, Kobe, Hyogo 658-0033, Japan Phone: (Country Code 81) 78-275-2006 Fax: (Country Code 81) 78-845-8159 | |
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