



Almega Friendly series
Arc Welding Robot
FD-V8



**Faster, Slimmer,
& more User-Friendly**

**Improved in every aspect of
performance!**



**The maximum payload is increased to 8kg.
Application for the welding usage has been
expanded.**

Improved in every aspect of performance!

Faster cycle time

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

Slim design

Slimmed lower arm and reduced rotating radius. Avoiding the interference with jigs or workpieces.

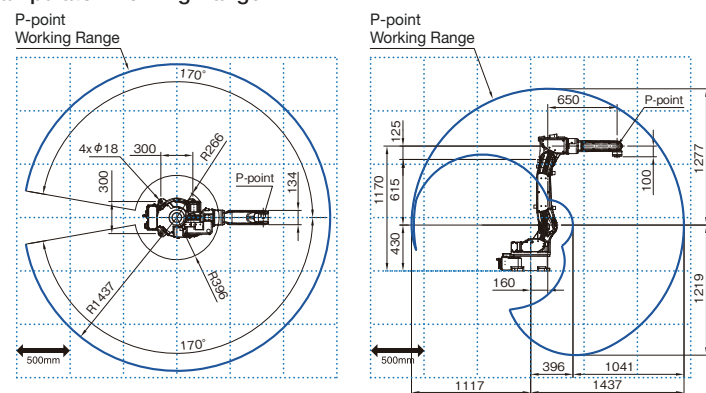
User-friendly operation

All cables required for Synchro-feed welding are also built in the lower arm. Avoiding the interference behind the arm.

Stronger structure

The maximum payload has been increased by 30%, up to 8kg. Enabling the use of a variety of torches and sensors. It is also good for handling application.

Manipulator Working Range



Manipulator Specifications

	FD-V8
Structure	Vertical articulated type
Number of Axes	6
Max. Payload Capacity	8kg
Positional Repeatability	±0.08mm (Note 1)
Drive System	AC servomotor
Drive Capacity	3016W
Position Feedback	Absolute encoder
Working Range	J1 (Rotation) ±170° (±50°) (Note 2)
	Arm J2 (Lower arm) -155°~+90°
	J3 (Upper arm) -170°~+190°
	J4 (Swing) ±180°
Maximum Speed	Wrist J5 (Bending) -50°~+230°
	J6 (Twist) ±360° (Note 3)
	J1 (Rotation) 4.19rad/s {240°/s} (3.32rad/s {190°/s}) (Note 2)
	Arm J2 (Lower arm) 4.19rad/s{240°/s}
Wrist Allowable Load	J3 (Upper arm) 4.01rad/s{230°/s}
	J4 (Swing) 7.50rad/s{430°/s}
	J5 (Bending) 7.50rad/s{430°/s}
	J6 (Twist) 11.00rad/s{630°/s}
Allowable Moment of Inertia	J4 (Swing) 17.6N·m
	J5 (Bending) 17.6N·m
	J6 (Twist) 7.8N·m
	J4 (Swing) 0.43kg·m ²
Arm Cross-sectional Area	J5 (Bending) 0.43kg·m ²
	J6 (Twist) 0.09 kg·m ²
	3.11m ² ×340°
	Ambient Conditions Temp: 0 to 45°C, Hmd: 20 to 80%RH (No Condensation)
Mass (weight)	140kg
Upper Arm Payload Capacity	10kg (Note 4)
Installation 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. 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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- The information contained in this catalog is current as of September 2016 and is subject to revision without notice.
- This catalog was printed with environmentally-friendly vegetable oil ink.