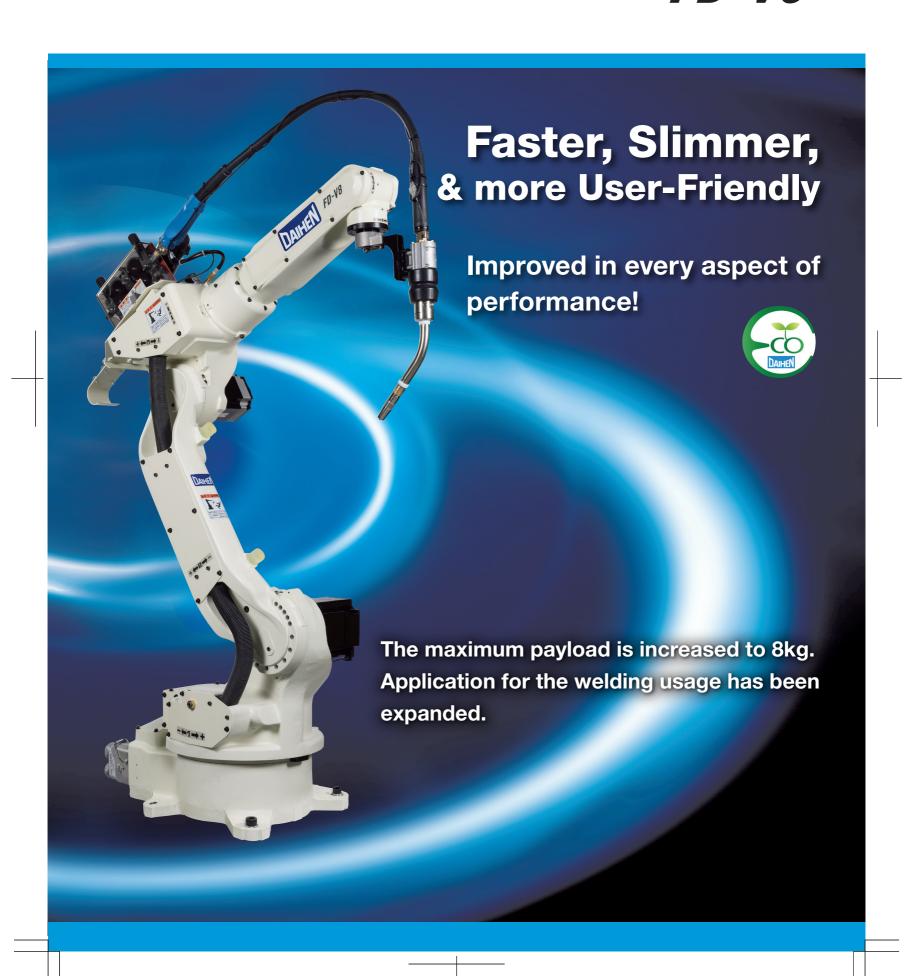


Almega Friendly series

Arc Welding Robot

FD-V8



Improved in every aspect of performance!

Faster cycle time

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

Slim design

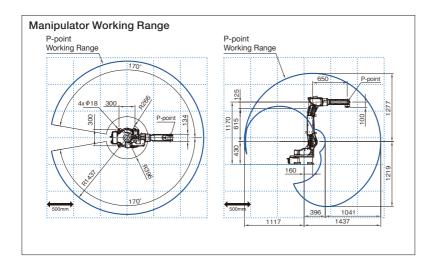
Slimmed lower arm and reduced rotating radius.
Avoiding the interference with jigs or

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 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	Arm	J1 (Rotation)	±170° (±50°) (Note 2)
		J2 (Lower arm)	-155°~+90°
		J3 (Upper arm)	−170°~+190°
	Wrist	J4 (Swing)	±180°
		J5 (Bending)	−50°~+230°
		J6 (Twist)	±360° (Note 3)
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)	17.6 N·m
		J5 (Bending)	17.6N•m
		J6 (Twist)	7.8N•m
	Allowable Moment of Inertia	J4 (Swing)	0.43 kg • m ²
		J5 (Bending)	0.43 kg • m ²
		J6 (Twist)	0.09 kg · m²
Arm Cross-sectional Area			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)

- sitional 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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