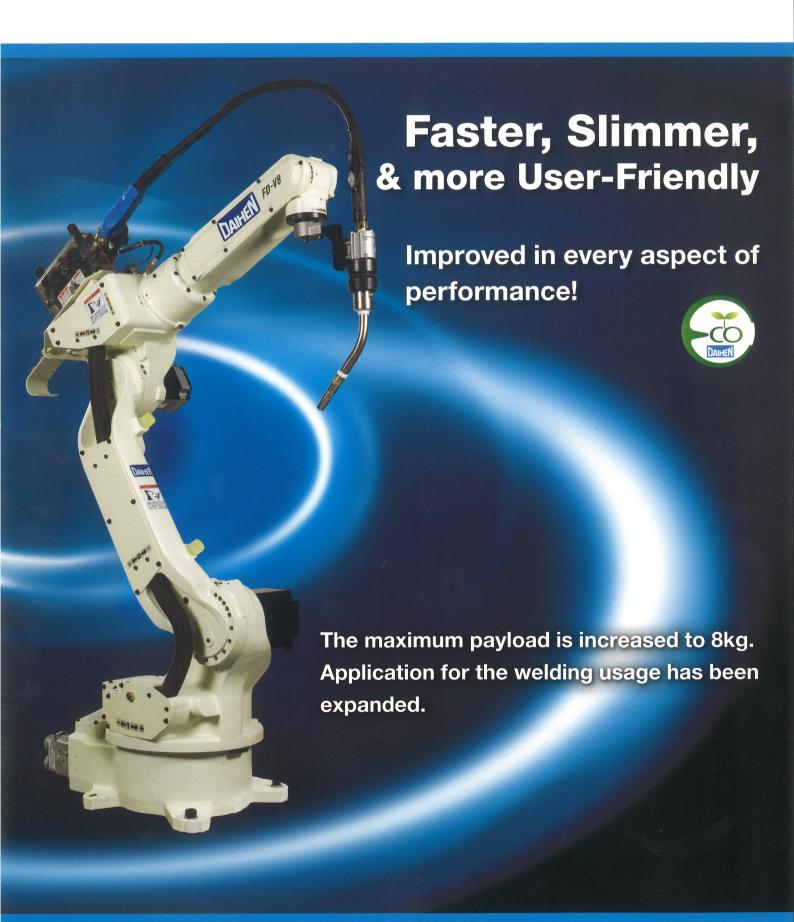


Almega Friendly series

Arc Welding Robot FD-V8



Improved in every aspect of performance!

Faster cvcle time

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

Slim design

Slimmed lower arm and reduced rotating

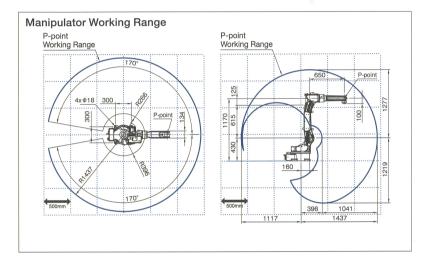
Avoiding the interference with jigs or workpieces.

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 Specifications

			FD-V8
	Struc	ture	Vertical articulated type
Number of Axes			6
Max. Payload Capacity			8kg
Po	sitional R	epeatability	±0.08mm (Note 1)
	Drive S	System	AC servomotor
	Drive C	apacity	3016W
Position Feedback			Absolute encoder
Φ	Arm	J1 (Rotation)	±170° (±50°) (Note 2)
ang		J2 (Lower arm)	-155°~+90°
Working Range		J3 (Upper arm)	-170°~+190°
ķi	Wrist	J4 (Swing)	±180°
Nor		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}
ηS		J3 (Upper arm)	4.01rad/s{230°/s}
mm	Wrist	J4 (Swing)	7.50rad/s{430°/s}
laxi		J5 (Bending)	7.50rad/s{430°/s}
2		J6 (Twist)	11.00rad/s{630°/s}
ad	Allowable Moment	J4 (Swing)	17.6N·m
e Po		J5 (Bending)	17.6N·m
Wrist Allowable Load		J6 (Twist)	7.8N·m
	Allowable Moment of Inertia	J4 (Swing)	0.43 kg • m²
		J5 (Bending)	0.43 kg • m ²
≶		J6 (Twist)	0.09 kg · m²
Arm Cross-sectional Area			3.11m²×340°
Ambient Conditions			Temp: 0 to 45°C, Hmd: 20 to 80%RH (No Condensation)
Mass (weight)			140kg
Jpper 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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