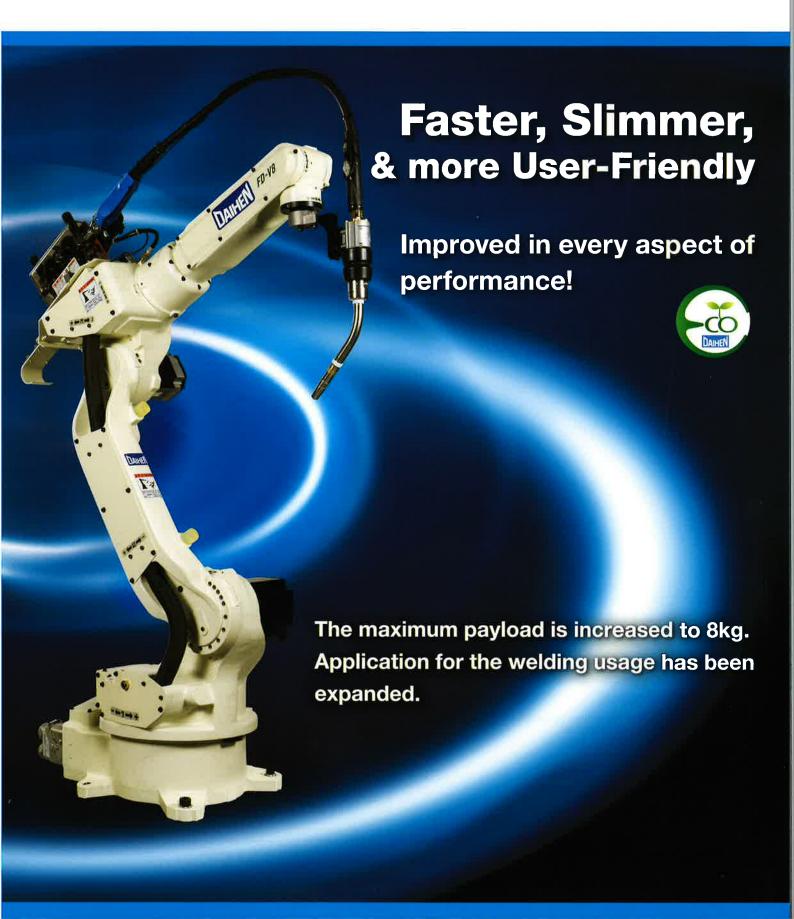


## Almega Friendly series

# 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

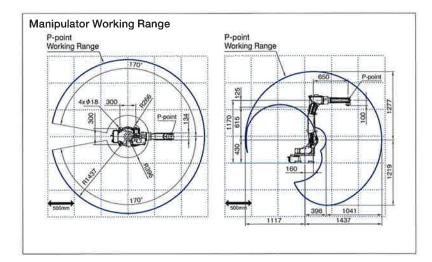
Slimmed lower arm and reduced rotating Avoiding the interference with jigs or

#### 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.



workpieces.

#### **Manipulator Specifications**

			FD-V8
Structure			Vertical articulated type
Number of Axes			6
Max. Payload Capacity			Bkg
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)	17.6N·m
		J5 (Bending)	17,6N·m
		J6 (Twist)	7.8N·m
	Allowable Moment of Inertia	J4 (Swing)	0.43kg · m²
		J5 (Bending)	0.43kg · m²
		J6 (Twist)	0,09 kg · m²
Arm Cross-sectional Area			3.11m <sup>2</sup> ×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
- Stationald.

  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.