

Almega Friendly series II

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

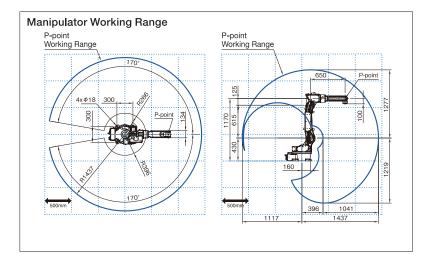
workpieces.

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
Structure			Vertical articulated type
Number of Axes			6
Ma	x. Payloa	ad Capacity	8kg
Pos	sitional R	epeatabi l ity	±0.08mm (Note 1)
	Drive S	System	AC servomotor
	Drive C	apacity	3016W
F	Position F	eedback	Absolute encoder
Ф	Arm	J1 (Rotation)	±170° (±50°) (Note 2)
Working Range		J2 (Lower arm)	−155°~+90°
S.		J3 (Upper arm)	−170°~+190°
ķi	Wrist	J4 (Swing)	±180°
Nor		J5 (Bending)	− 50°~+230°
		J6 (Twist)	±360° (Note 3)
p	Arm	J1 (Rotation)	4.19rad/s {240°/s} (3.32rad/s {190°/s}) (Note 2)
Maximum Speed		J2 (Lower arm)	4.19rad/s{240°/s}
S		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}
		J6 (Twist)	11.00rad/s{630°/s}
ad	Allowable Moment	J4 (Swing)	17.6N·m
e Lo		J5 (Bending)	17.6N·m
Wrist Allowable Load		J6 (Twist)	7.8N·m
N	Moment of Inertia	J4 (Swing)	0.43kg • m²
rist /		J5 (Bending)	0.43 kg • m ²
		J6 (Twist)	0.09 kg · m²
Arm Cross-sectional Area			3.11m ² ×340°
		Conditions	Temp: 0 to 45°C, Hmd: 20 to 80%RH (No Condensation)
	,	weight)	140kg
Uppe		yload Capacity	10 kg (Note 4)
		ion 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
- 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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- This catalog was printed with environmentally-friendly vegetable oil ink.