

Almega Friendly series Arc Welding Robot FD-V8L

Faster, Slimmer & more User-Friendly

Improved in every aspect of performance!



Long arm with a maximum payload of 8kg The range of welding applications has been expanded.

Improved in every aspect of performance! Slim rear design!





			FD-V8L
	Struc	ture	Vertical articulated type
Number of Axes		of Axes	6
Max. Payload Capacity		ad Capacity	8kg
Positional Repeatability			±0.08mm (Note 1)
Drive System			AC servomotor
Drive Capacity		apacity	5000W
Position Feedback		eedback	Absolute encoder
Working Range	Arm	J1 (Rotation)	±170° (±50°) (Note 2)
		J2 (Lower Arm)	-155°~+100° (Note 3)
		J3 (Upper Arm)	-170°~+260°
	Wrist	J4 (Swing)	±180°
		J5 (Bending)	-50°~+230°
		J6 (Twist)	±360°
ğ	Arm	J1 (Rotation)	3.40rad/s (3.05) {195°/s (175°/s) } (Note 2)
Maximum Spee		J2 (Lower Arm)	3.49rad/s{200°/s}
		J3 (Upper Arm)	3.49rad/s{200°/s}
	Wrist	J4 (Swing)	7.50rad/s{430°/s}
		J5 (Bending)	7.50rad/s{430°/s}
		J6 (Twist)	10.99rad/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 • m ²
		J5 (Bending)	0.43kg • m ²
		J6 (Twist)	0.09kg • m ²
Arm Cross-sectional Area			7.48m ² × 340°
Ambient Conditions			Temp: 0 to 45°C, Hmd: 20 to 80%RH (No Condensatio
Mass (weight)			273kg
Upper Arm Payload Capacity			20kg (Note 4)
Installation Type			Floor, wall, or ceiling
Paint Color			White (Munsell notation 10GY 9/1)

FD-V8L

Standard. Specifications for wall mounting appear in parentheses. The working range of the J2 axis may be restricted when wall-mounted. 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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