

Almega Friendly series

Handling Robot FD-V8L



Improved in every aspect of performance! Slim rear design!

Faster cycle time

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

Slim design

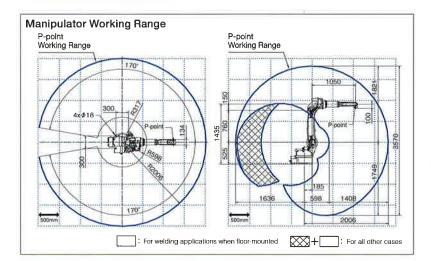
Slimmed arm design for high-density layout

User-friendly operation

Integrated signal cables and air hoses to accommodate a variety of end effectors

Stronger structure

The maximum payload has been increased by 30%, up to 8kg.



Manipulator Specifications

			FD-V8L
Structure			Vertical articulated type
Number of Axes			6
Max. Payload Capacity			8kg
Positional Repeatability			±0,08mm (Note 1)
Drive System			AC servomotor
Drive Capacity			5000W
Position Feedback			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°
Nor		J5 (Bending)	−50°~+230°
		J6 (Twist)	±360°
Maximum Speed	Arm	J1 (Rotation)	3.40rad/s (3.05) {195°/s (175°/s) } (Note 2)
		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 Mornent	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 ^{-,} m ²
		J6 (Twist)	0.09kg · m²
Arm Cross-sectional Area			7.48m² × 340°
Ambient Conditions			Temp: 0 to 45°C, Hmd: 20 to 80%RH (No Condensation
Mass (weight)			273kg
Jpper Arm Payload Capacity			20kg (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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The information contained in this catalog is current as of November 2017 and is subject to revision without notice.

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