

Almega Friendly series II

Multipurpose Robot



Multipurpose specification



Improved with all performances!



Fast

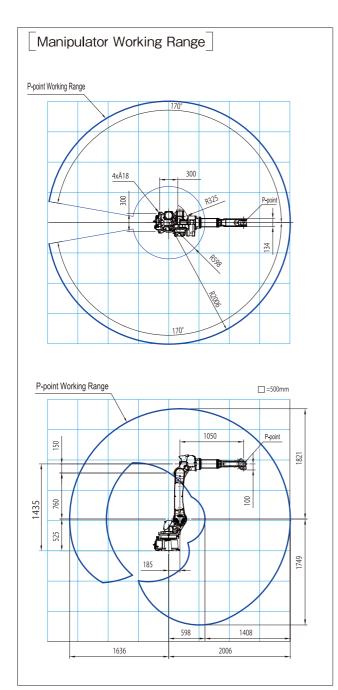
Industry leading level speed. Reduce cycle time

Slim

30% reduce in foot print **High-density layout**

User friendly

Built-in application cable for various hand tools.



Manipulator Specifications

			Specification
Name			FD-V8LH
Structure			Vertically articulated type
Number of Axes			6
Wrist Capacity			8 kg
Positional Repeatability (Note			±0.05mm (Note 1)
Driving Method			AC servo motor
Driving Capacity			4800W
Positional Feedback			Absolute encoder
Range	Arm	J1 (Rotation)	±170°(±50°) (Note 2)
		J2 (Front/back)	-155°∼+100°(Note 3)
		J3 (Up/down)	−170°~+260°
Working Range	Wrist	J4 (Swing)	±180°
		J5 (Bending)	−50°~+230°
		J6 (Twist)	±360°
Maximum Speed	Arm	J1 (Rotation)	3.93 rad/s{225°/s} (3.05rad/s {175°/s}) (Note 2)
		J2 (Front/back)	3.58 rad/s{205°/s}
		J3 (Up/down)	4.45 rad/s{255°/s}
	Wrist	J4 (Swing)	7.85 rad/s{450°/s}
		J5 (Bending)	7.50rad/s{430°/s}
		J6 (Twist)	11.00rad/s{630°/s}
Wrist Allowable Load	Allowable Moment	J4 (Swing)	17.6 N·m
		J5 (Bending)	17.6 N·m
		J6 (Twist)	7.8 N·m
	Allowable Moment of Inertia	J4 (Swing)	0.43 kg·m²
		J5 (Bending)	0.43 kg·m²
		J6 (Twist)	0.09 kg·m²
Arm Cross-sectional Area			7.48m ² ×340°
Environmental Conditions T			Temp: $0\sim45^{\circ}$ C, Hmd: $20\sim80\%$ RH (No Condensation)
Mass (weight)			237 kg
Capacity of Upper Arm			20 kg (Note 4)
Installation Method			Floor-/Ceiling-/Wall-mounted
Paint Color			White (Munsell notation 10GY 9/1)

(Note 1) Positional repeatability of the tool center point (TCP) value complies with the JIS -B-8432 Standard. (Note 2) Specifications for wall mounting appear in parentheses. (Note 3) The working range of the J2 axis may be restricted when wall-mounted. (Note 4) The capacity of the upper arm varies with the wrist capacity.

Daihen Robot Site

www.daihen-robot.com/en/



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