



Almega Friendly series II
Handling Robot
NEW FD-V8LH
HANDLING specification

**Fast, Slim,
User-Friendly**

Improved with all performances!



**Long arm with a max.
payload 8kg
Optimized for the
high-speed handling**

Improved with all performances!

FD-V8LH
HANDLING specification

Fast

Industry leading level speed.
Reduce cycle time

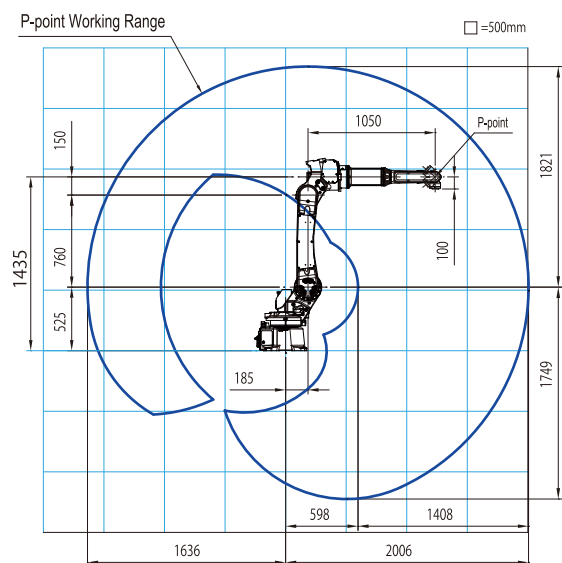
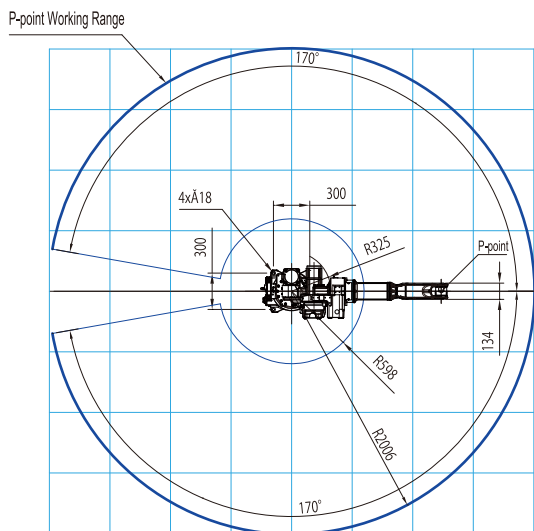
Slim

30% reduce in foot print
High-density layout

User friendly

Built-in application cable for
various hand tools.

Manipulator Working Range



Manipulator Specifications

		Specification	
Name		FD-V8LH	
Structure		Vertically articulated type	
Number of Axes		6	
Wrist Capacity		8 kg	
Positional Repeatability (Note 1)		±0.05mm (Note 1)	
Driving Method		AC servo motor	
Driving Capacity		4800W	
Positional Feedback		Absolute encoder	
Working Range	Arm	J1 (Rotation)	±170°(±50°) (Note 2)
		J2 (Front/back)	−155°~+100°(Note 3)
		J3 (Up/down)	−170°~+260°
	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·m ²
		J5 (Bending)	0.43 kg·m ²
		J6 (Twist)	0.09 kg·m ²
Arm Cross-sectional Area		7.48m ² ×340°	
Environmental Conditions		Temp: 0~45°C, Hmd: 20~80%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.

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Daihen Robot Site

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Note This product and the technologies (including software) used in the product are subject to Catch-All Controls. When exporting any of them, verify the users, applications, etc. according to the applicable laws and regulations and take appropriate procedures such as applications for export permission to the Minister of Economy, Trade and Industry if required.

●The information contained in this catalog is current as of April 2021 and is subject to revision without notice.

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