



Almega Friendly series II

Multipurpose Robot

NEW FD-V8H

Multipurpose specification



Fast, Slim, User-Friendly

Improved with all
performances!



Max. payload 8kg.
Ideal for the
high-speed operation.

PICKING	SPOT WELDING
CUTTING	Used for... ASSEMBLY
LOAD/ UNLOAD	FINISHING
ARC WELDING	SORTING

Improved with all performances!

Fast

Industry leading level speed.
Reduce cycle time

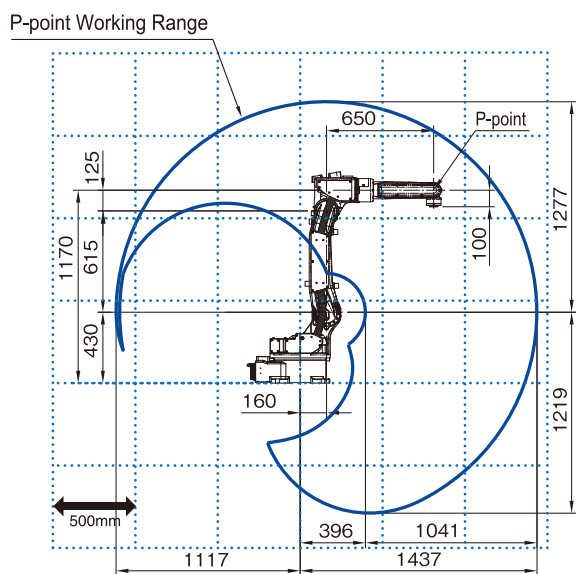
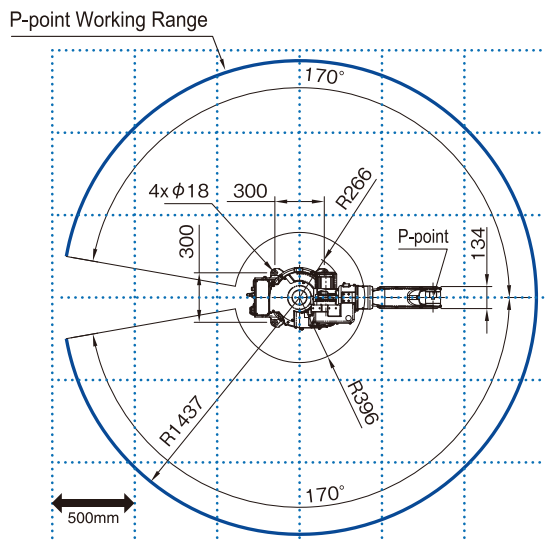
Slim

High-density layout

User friendly

Built-in application cable for
various hand tools.

[Manipulator Working Range]



□ : For welding applications when floor-mounted ⊞ : For other than the above

[Manipulator Specifications]

		Specification	
Name		FD-V8H	
Structure		Vertically articulated type	
Number of Axes		6	
Wrist Capacity		8 kg	
Positional Repeatability (Note 1)		±0.08mm (Note 1)	
Driving Method		AC servo motor	
Driving Capacity		3016W	
Positional Feedback		Absolute encoder	
Working Range	Arm	J1 (Rotation)	±170°(±50°) (Note 2)
		J2 (Front/back)	-155°~+90° (Note 3)
		J3 (Up/down)	-170°~+190°
	Wrist	J4 (Swing)	±180°
		J5 (Bending)	-50°~+230°
		J6 (Twist)	±360°
Maximum Speed	Arm	J1 (Rotation)	4.19 rad/s{240°/s} (3.32rad/s {190°/s})(Note 2)
		J2 (Front/back)	4.19 rad/s{240°/s}
		J3 (Up/down)	4.01 rad/s{230°/s}
	Wrist	J4 (Swing)	7.50 rad/s{430°/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		3.11m ² × 340°	
Environmental Conditions		Temp: 0~45°C, Hmd: 20~80%RH (No Condensation)	
Mass (weight)		140 kg	
Capacity of Upper Arm		10kg (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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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.