



Almega Friendly series II
Medium Class Robot
NEW FD-V25

Fast, Slim, User-Friendly

Improved with all performances!



**Max. payload 25kg.
Interference behind
the robot minimized by
integrating cables
into the lower arm**

Improved with all performances!

Fast

Industry leading level speed.
Reduce cycle time

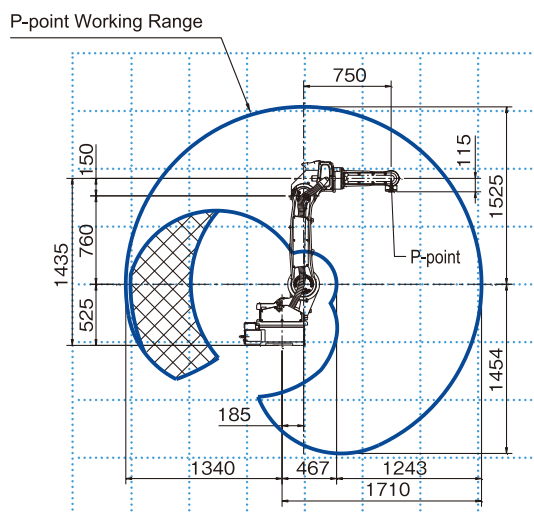
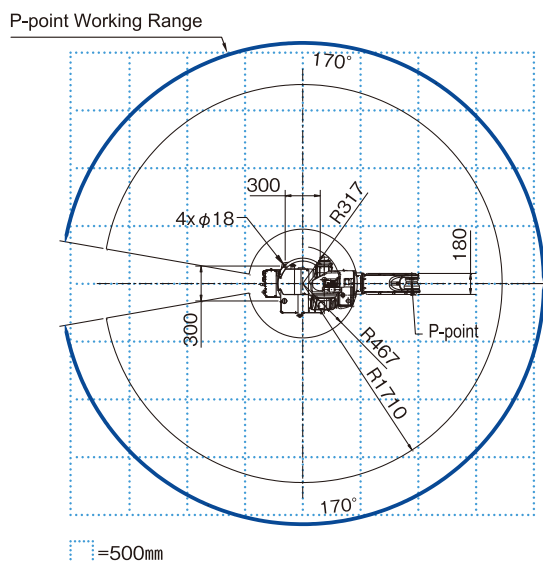
Slim

30% reduce in foot print
High-density layout

User friendly

Built-in application cable for various hand tools.

Manipulator Working Range



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

Manipulator Specifications

		Specification	
Name		FD-V25	
Structure		Vertically articulated type	
Number of Axes		6	
Wrist Capacity		25kg	
Positional Repeatability (Note 1)		±0.04mm (Note 1)	
Driving Method		AC servo motor	
Driving Capacity		5400W	
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°(Note 5)
	Wrist	J4 (Swing)	±180°
		J5 (Bending)	−50°~+230°
		J6 (Twist)	±360°
Maximum Speed	Arm	J1 (Rotation)	3.93rad/s{225°/s}(3.05rad/s{175°/s})(Note 2)
		J2 (Front/back)	3.58rad/s{205°/s}
		J3 (Up/down)	4.45rad/s{255°/s}
	Wrist	J4 (Swing)	7.85rad/s{450°/s}
		J5 (Bending)	7.68rad/s{440°/s}
		J6 (Twist)	10.60rad/s{605°/s}
Wrist Allowable Load	Allowable Moment	J4 (Swing)	52.6 N·m
		J5 (Bending)	52.6 N·m
		J6 (Twist)	24.5 N·m
	Allowable Moment of inertia	J4 (Swing)	1.24 kg·m ²
		J5 (Bending)	1.24 kg·m ²
		J6 (Twist)	0.33kg·m ²
Arm Cross-sectional Area		5.27m ² × 340°	
Environmental Conditions		Temp: 0~45°C, Hmd: 20~80%RH (No Condensation)	
Mass (weight)		241kg	
Capacity of Upper Arm		10 kg (Wrist capacity: 25kg)(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.

(Note 5) The operation range of the J3 axis is restricted to -170 degrees to +205 degrees when floor-based welding is applied.

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