



Almega Friendly series

Medium Class Robot *FD-V25*

**Application range has
been expanded
due to increased
maximum payload.**

**Improved in every aspect of
performance!**



**Maximum payload of 25kg
Interference behind the robot
minimized by integrating cables into
the lower arm**



Application range has been expanded due to increased maximum payload.

FD-V25

Faster cycle time

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

Stronger structure

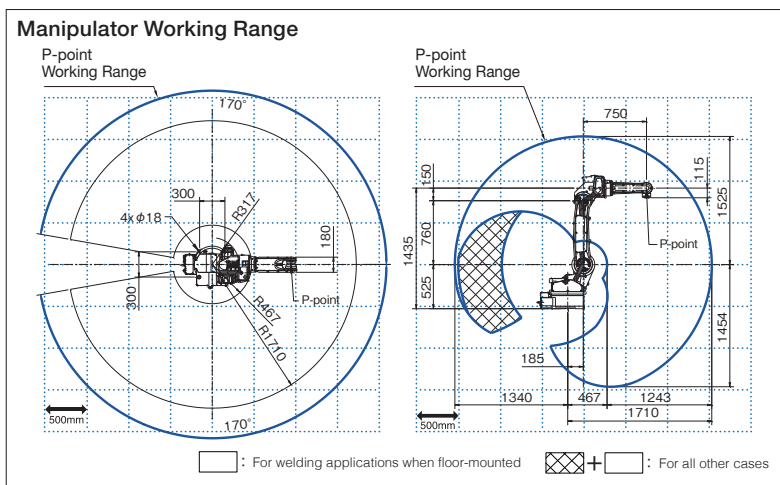
The maximum payload has been increased by 25%, up to 25kg. Expands support for various handling applications.

User-friendly operation

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

More robust

Splash-proof and dust-proof design equivalent to IP64 enclosure rating



Manipulator Specifications

		FD-V25
Structure		Vertical articulated type
Number of Axes		6
Max. Payload Capacity		25kg
Positional Repeatability		±0.07mm (Note 1)
Drive System		AC servomotor
Drive Capacity		5600W
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°
	J4 (Swing)	±180°
Wrist	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)	3.32rad/s(190°/s)
	J3 (Upper Arm)	3.14rad/s(180°/s)
	J4 (Swing)	6.98rad/s(400°/s)
	Wrist J5 (Bending)	6.98rad/s(400°/s)
	J6 (Twist)	10.47rad/s(600°/s)
Allowable Moment	J4 (Swing)	52.6N·m
	J5 (Bending)	52.6N·m
	J6 (Twist)	24.5N·m
Wrist Allowable Load of Inertia	J4 (Swing)	1.24kg·m ²
	J5 (Bending)	1.24kg·m ²
	J6 (Twist)	0.33kg·m ²
Arm Cross-sectional Area		5.27m ² × 340°
Ambient Conditions		Temp: 0 to 45°C, Hmd: 20 to 80%RH (No Condensation)
Mass (weight)		278kg
Upper Arm Payload Capacity		10kg (Wrist capacity: 25kg) (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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