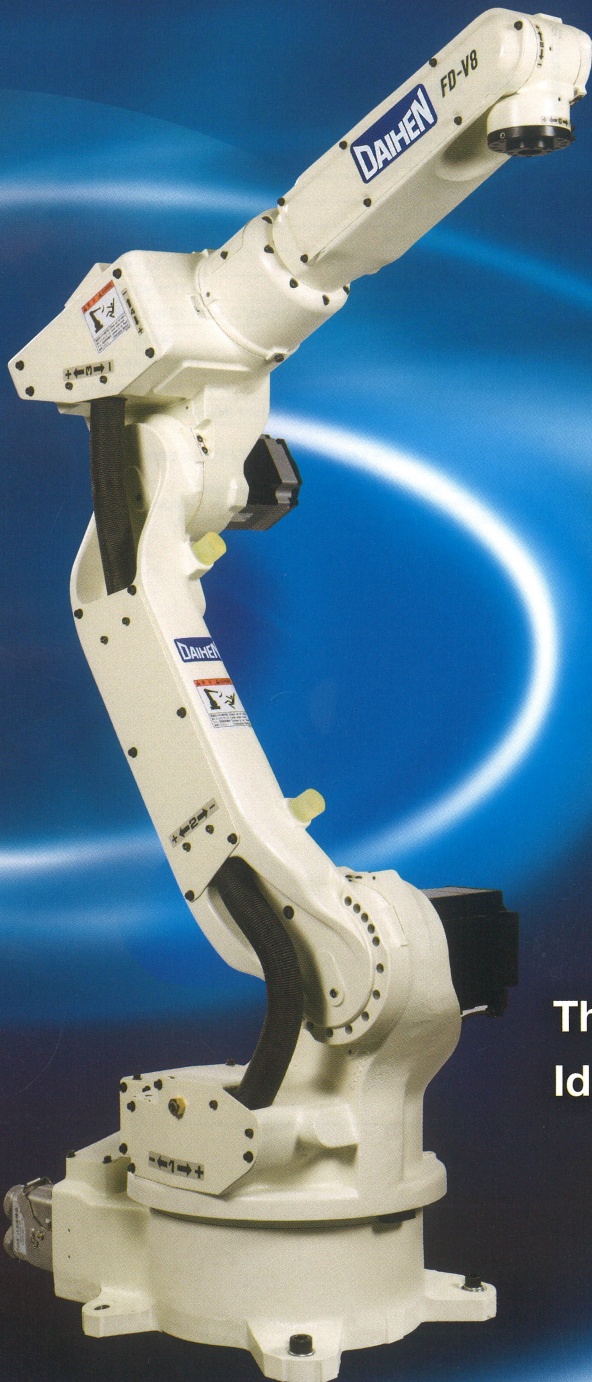




Almega Friendly series
Handling Robot
FD-V8



**Faster, Slimmer,
& more User-Friendly**

**Improved in every aspect of
performance!**



**The maximum payload is increased to 8kg.
Ideal for the high-speed handling.**

Improved in every aspect of performance!

Faster cycle time

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

Slim design

Slimmed lower arm and reduced rotating radius. Avoiding the interference with jigs or workpieces.

User-friendly operation

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

Stronger structure

The maximum payload has been increased by 30%, up to 8kg.

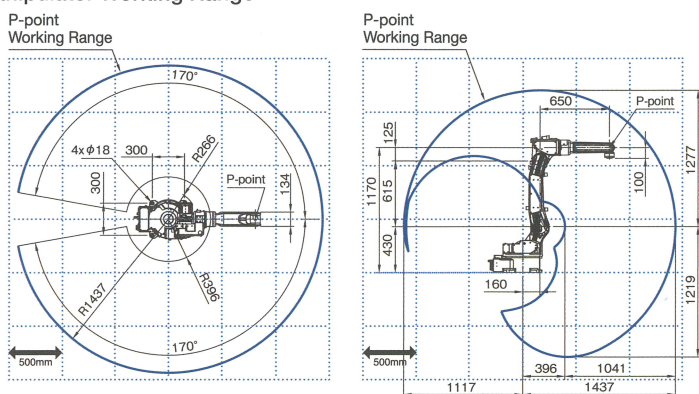
Manipulator Specifications

		FD-V8
Structure		Vertical articulated type
Number of Axes		6
Max. Payload Capacity		8kg
Positional Repeatability		±0.08mm (Note 1)
Drive System		AC servomotor
Drive Capacity		3016W
Position Feedback		Absolute encoder
Working Range	Arm	J1 (Rotation) ±170° (±50°) (Note 2)
		J2 (Lower arm) -155°~+90°
		J3 (Upper arm) -170°~+190°
		J4 (Swing) ±180°
	Wrist	J5 (Bending) -50°~+230°
		J6 (Twist) ±360° (Note 3)
Maximum Speed	Arm	J1 (Rotation) 4.19rad/s (240°/s) (3.32rad/s (190°/s)) (Note 2)
		J2 (Lower arm) 4.19rad/s(240°/s)
		J3 (Upper arm) 4.01rad/s(230°/s)
		J4 (Swing) 7.50rad/s(430°/s)
	Wrist	J5 (Bending) 7.50rad/s(430°/s)
		J6 (Twist) 11.00rad/s(630°/s)
Wrist Allowable Load	Allowable Moment	J4 (Swing) 17.6N·m
		J5 (Bending) 17.6N·m
		J6 (Twist) 7.8N·m
Allowable Moment of Inertia	Allowable Moment of Inertia	J4 (Swing) 0.43kg·m ²
		J5 (Bending) 0.43kg·m ²
		J6 (Twist) 0.09kg·m ²
Arm Cross-sectional Area		3.11m ² ×340°
Ambient Conditions		Temp: 0 to 45°C, Hmd: 20 to 80%RH (No Condensation)
Mass (weight)		140kg
Upper Arm Payload Capacity		10kg (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 J6 axis may be restricted by the specific posture of the J5 axis.
4. The capacity of the upper arm varies with the wrist capacity.

Manipulator Working Range



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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●The information contained in this catalog is current as of September 2016 and is subject to revision without notice.
 ●This catalog was printed with environmentally-friendly vegetable oil ink.