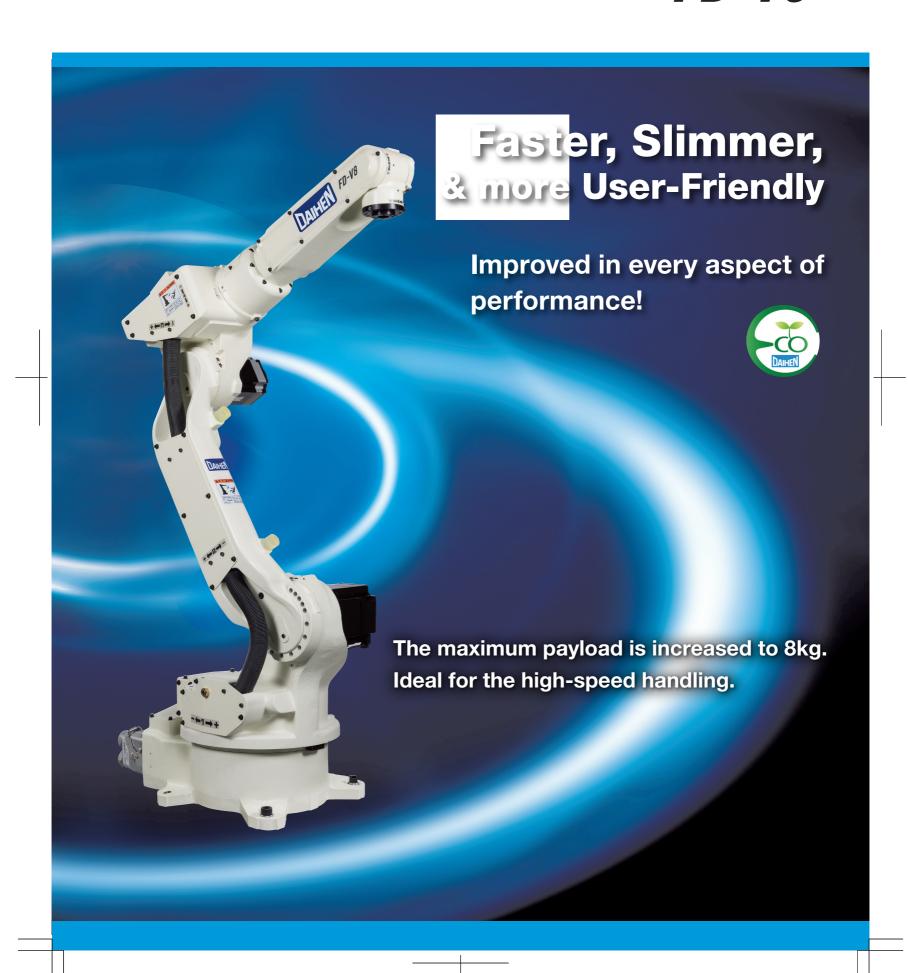


Almega Friendly series

Handling Robot

FD-V8



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.

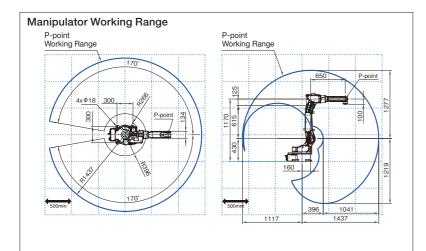
Avoiding the interference with jigs or workpieces.

User-friendly operation

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

Stronger structure

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



Manipulator Specifications

			FD-V8
	Struc	cture	Vertical articulated type
	Number	of Axes	6
Ma	ax. Payloa	ad Capacity	8kg
Po	sitional R	epeatability	±0.08mm (Note 1)
	Drive S	System	AC servomotor
	Drive C	. ,	3016W
	Position F	eedback	Absolute encoder
Φ	Arm	J1 (Rotation)	±170° (±50°) (Note 2)
Working Range		J2 (Lower arm)	−155°~+90°
y R		J3 (Upper arm)	−170°~+190°
Ř.	Wrist	J4 (Swing)	±180°
Mor		J5 (Bending)	−50°~+230°
		J6 (Twist)	±360° (Note 3)
р	Arm	J1 (Rotation)	4.19rad/s {240°/s} (3.32rad/s {190°/s}) (Note 2)
Maximum Speed		J2 (Lower arm)	4.19rad/s{240°/s}
S		J3 (Upper arm)	4.01rad/s{230°/s}
Ш	Wrist	J4 (Swing)	7.50rad/s{430°/s}
laxi		J5 (Bending)	7.50rad/s{430°/s}
2		J6 (Twist)	11.00rad/s{630°/s}
ad	Allowable Moment	J4 (Swing)	17.6 N∙m
e Lo		J5 (Bending)	17.6N·m
Wrist Allowable Load		J6 (Twist)	7.8N•m
N N	Moment of Inertia	J4 (Swing)	0.43 kg • m ²
ist /		J5 (Bending)	0.43 kg • m ²
>		J6 (Twist)	0.09 kg • m²
Arn	Arm Cross-sectional Area		3.11m ² ×340°
	Ambient (Conditions	Temp: 0 to 45°C, Hmd: 20 to 80%RH (No Condensation)
	,	weight)	140kg
Uppe	r Arm Pa	yload Capacity	10kg (Note 4)
		ion Type	Floor, wall, or ceiling
	Paint	Color	White (Munsell notation 10GY 9/1)

- itional 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.

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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