

# Almega Friendly series II

# Arc Welding Robot





# Fast, Slim, **User-Friendly**

**Improved with all** performances!



Long arm with a max. payload 8kg The range of welding applications has been expanded.

## Improved with all performances!

#### Fast

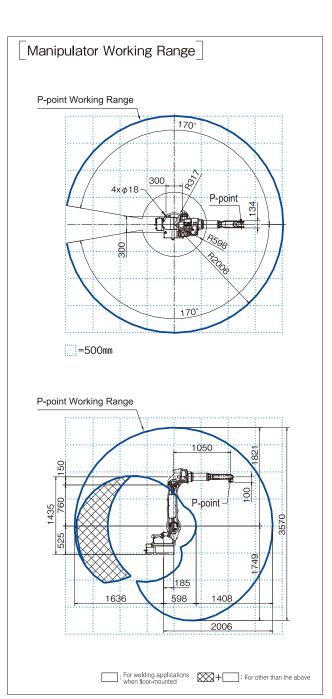
Industry leading level speed. Reduce cycle time

#### Slim

30% reduce in foot print High-density layout

### User friendly

All cables required for Synchro-feed welding are also built in the lower arm. Avoiding the interference behind the arm.



#### Manipulator Specifications

			Specification
Name			FD-V8L
Structure			Vertically articulated type
Number of Axes			6
Wrist Capacity			8 kg
Positional Repeatability (No			ote 1) ±0.05mm (Note 1)
Driving Method			AC servo motor
Driving Capacity			4800W
Positional Feedback			Absolute encoder
Range	Arm	J1 (Rotation)	±170°(±50°) (Note 2)
		J2 (Front/bad	ck) −155°∼+100°(Note 3)
		J3 (Up/down	) −170°∼+260° (Note 5)
Working Range	Wrist	J4 (Swing)	±180°
		J5 (Bending)	−50°~+230°
		J6 (Twist)	±360°
7	Arm	J1 (Rotation)	3.93 rad/s{225°/s} (3.05rad/s {175°/s}) (Note 2)
bee		J2 (Front/bad	ck) 3.58 rad/s {205° /s}
Maximum Speed		J3 (Up/down	) 4.45 rad/s {255° /s}
	Wrist	J4 (Swing)	7.85 rad/s {450° /s}
/laxi		J5 (Bending)	7.50rad/s {430°/s}
		J6 (Twist)	11.00rad/s {630°/s}
aq	Allowable Moment	J4 (Swing)	17.6 N·m
e Co		J5 (Bending)	17.6 N·m
Wrist Allowable Load		J6 (Twist)	7.8 N · m
	Allowable Moment of Inertia	J4 (Swing)	0.43 kg · m <sup>2</sup>
		J5 (Bending)	0.43kg·m²
		J6 (Twist)	0.09kg·m²
Arm Cross-sectional Area			7.48m²×340°
Environmental Conditions T			Temp: 0~45°C, Hmd: 20~80%RH (No Condensation)
Mass (weight)			237kg
Capacity of Upper Arm			20kg (Note 4)
Installation Method			Floor-/Ceiling-/Wall-mounted
Paint Color			White (Munsell notation 10GY 9/1)

(Note 1) Positonal 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 3) The parentheses.
(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 degreeses to +205 degrees when floor-based welding is applied.



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