

Almega Friendly series II

Multipurpose Robot



Multipurpose specification



Improved all performances! New hollow arm Multipurpose robot



Fast

Industry leading level speed. Reduce cycle time

Slim

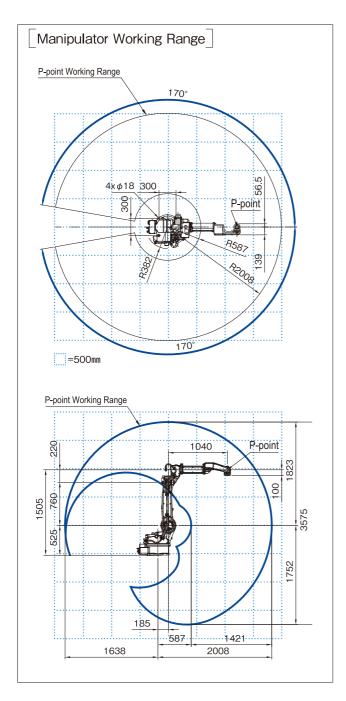
30% reduce in foot print High-density layout

User friendly

Built-in application cable for various hand tools.

Tough

IP65 Dust-proof and splash-proof design.



Manipulator Specifications

			Specification
Name			FD-B6LH
Structure			Vertically articulated type
Number of Axes			6
Wris	t Capa	city	6 kg
Posi	tional F	Repeatability (No	te 1) ±0.05mm (Note 1)
Drivi	ng Met	thod	AC servo motor
Drivi	ng Cap	pacity	4632W
Posi	tional F	- eedback	Absolute encoder
Range	Arm	J1 (Rotation)	±170°(±50°) (Note 2)
		J2 (Front/back	c) -155°~+100°(Note 3)
		J3 (Up/down)	-170°~+190°
Working Range	Wrist	J4 (Swing)	±155°(±170°) (Note 4)
		J5 (Bending)	-45°∼+225°(Note 5)
		J6 (Twist)	±205°(±360°)(Note 4,5)
Maximum Speed	Arm	J1 (Rotation)	3.93 rad/s{225°/s} (3.05 rad/s{175°/s}) (Note 2)
		J2 (Front/back	x) 3.58 rad/s{205°/s}
		J3 (Up/down)	3.84 rad/s{220°/s}
	Wrist	J4 (Swing)	7.50rad/s {430°/s}
		J5 (Bending)	7.50rad/s {430°/s}
		J6 (Twist)	11.00rad/s {630°/s}
Wrist Allowable Load	Allowable Moment	J4 (Swing)	10.5 N·m
		J5 (Bending)	10.5 N·m
		J6 (Twist)	5.9 N·m
	Allowable Moment of Inertia	J4 (Swing)	0.28 kg·m²
		J5 (Bending)	0.28 kg•m²
		J6 (Twist)	0.06 kg·m²
Arm Cross-sectional Area			6.37m ² ×340°
Environmental Conditions			Temp: $0{\sim}45^{\circ}\text{C}$, Hmd: $20{\sim}80^{\circ}\text{RH}$ (No Condensation)
Mas	s (weig	ht)	237 kg
Capa	acity of	f Upper Arm	20 kg (Note 6)
Insta	llation	Method	Floor-/Ceiling-/Wall-mounted
Pain	t 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 4) This specification applies when a single-wire power cable is fed through the hollow part of J4 and J6. The value in parentheses represents all other specifications. (Note 5) Working range of J6 axis may be restricted by the position of J5 axis. (Note 6) The capacity of the upper arm varies with the wrist capacity.

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