



Almega Friendly series II

Multipurpose Robot

NEW FD-B6H

Multipurpose specification

Fast, Slim, User-Friendly

Improved all performances!
New hollow arm Multipurpose robot



Max. Payload 6kg
Reducing cycle times and
minimized system size.



Improved all performances! New hollow arm Multipurpose robot

FD-B6H
Multipurpose specification

Fast

Industry leading level speed.
Reduce cycle time

User friendly

Built-in application cable for
various hand tools.

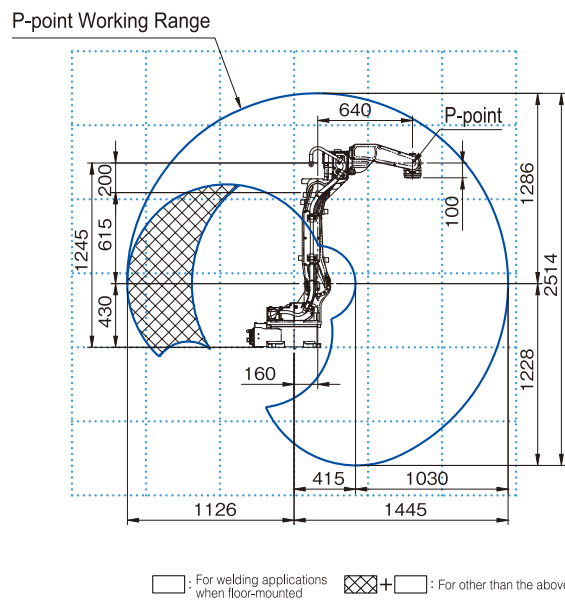
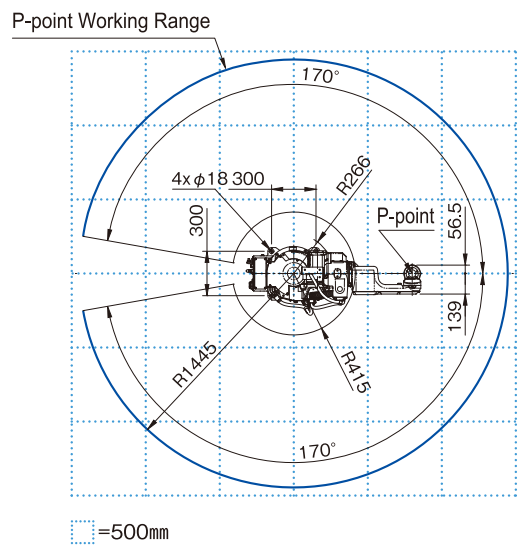
Slim

High-density layout

Tough

IP65 Dust-proof and
splash-proof design.

[Manipulator Working Range]



[Manipulator Specifications]

		Specification
Name		FD-B6H
Structure		Vertically articulated type
Number of Axes		6
Wrist Capacity		6kg
Positional Repeatability (Note 1)		±0.08mm (Note 1)
Driving Method		AC servo motor
Driving Capacity		3132W
Positional Feedback		Absolute encoder
Working Range	Arm	J1 (Rotation) ±170° (±50°) (Note 2)
		J2 (Front/back) -155° ~ +90° (Note 3)
		J3 (Up/down) -170° ~ +245°
	Wrist	J4 (Swing) ±155° (±170°) (Note 4)
		J5 (Bending) -45° ~ +225°
		J6 (Twist) ±205° (±360°)
Maximum Speed	Arm	J1 (Rotation) 4.19 rad/s {240°/s} (3.32 rad/s {190°/s}) (Note 2)
		J2 (Front/back) 4.19 rad/s {240°/s}
		J3 (Up/down) 4.01 rad/s {230°/s}
	Wrist	J4 (Swing) 7.50 rad/s {430°/s}
		J5 (Bending) 7.50 rad/s {430°/s}
		J6 (Twist) 11.00 rad/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 · m ²
		J5 (Bending) 0.28 kg · m ²
		J6 (Twist) 0.06 kg · m ²
Arm Cross-sectional Area		3.57m ² × 340°
Environmental Conditions		Temp: 0 ~ 45°C, Hmd: 20 ~ 80%RH (No Condensation)
Mass (weight)		145 kg
Capacity of Upper Arm		10 kg (Note 3)
Installation Method		Floor-/Ceiling-/Wall-mounted
Paint Color		White (Munsell notation 10GY 9/1)

(Note 1) Positional 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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Note This product and the technologies (including software) used in the product are subject to Catch-All Controls. When exporting any of them, verify the users, applications, etc. according to the applicable laws and regulations and take appropriate procedures such as applications for export permission to the Minister of Economy, Trade and Industry if required.

●The information contained in this catalog is current as of April 2021 and is subject to revision without notice.

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