

Almega Friendly series II

Extra-Long Reach Robot

3m reach robot

3m reach covering a wide working area without a slider, Compared to our model : 1.5 times of V8L and 1.8 times of V25.

High-speed operation

Contributes to improved productivity with the best in class operating speed.

25kg payload

Best in class 25 kg payload capacity is sufficient to attach various tools for welding and material handling.

Expand the range of robot selection

Reduce Systematization Costs



New proposal



Ideal for large automation applications for a wide range of operations due to the extended range of motion.

Extra Long Reach Robot



3m reach

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Various applications

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	lte	m	Specifications
Name			NV25L
Structure			Vertical articulated type
Number of axis			6
Max. payload capacity			55.1lb (25kg)
Positional repeatability			+/- 0.07 mm (Note 1)
Drive system			AC Servo motor
Drive capacity			11500 W
Position feedback			Absolute encoder
Working range	Arm	J1 (Revolving)	+/- 180°
		J2 (Fore/Back)	-155°~+90°
		J3 (Up/Down)	-180°~+250°
	Wrist	J4 (Swing)	+/- 180°
		J5 (Bending)	-50°~+230°
		J6 (Twist)	+/- 360°(Note 2)
Max. velocity	Arm	J1 (Revolving)	3.39 rad/s {194°/s}
		J2 (Fore/Back)	3.14 rad/s {180°/s}
		J3 (Up/Down)	4.58 rad/s {205°/s}
	Wrist	J4 (Swing)	7.85 rad/s {450°/s}
		J5 (Bending)	7.68 rad/s {440°/s}
		J6 (Twist)	10.56 rad/s {605°/s}
Wrist load	Allowable Moment	J4 (Swing)	52.6 N*m
		J5 (Bending)	52.6 N*m
		J6 (Twist)	24.5 N*m
	Allowable moment of inertia	J4 (Swing)	2.7lb (1.24 kg)*m ²
		J5 (Bending)	2.7lb (1.24 kg)*m ²
		J6 (Twist)	0.7lb (0.33 kg)*m ²
Arm operation cross-sectional area			185ft² (17.2 m²)× 360°
Ambient temperature and humidity			32~113°F(0~45°C), 20~80% RH (No condensation
Mass (weight)			1366.87lb (620kg)
Upper arm payload capacity			10 kg (Note 3)
IP Code			IP54 equivalent (J1~4 Axis)
Installation type			Floor, ceiling hanging type
Paint color			White (Munsell 10GY9/1)

The value of the positional repeatability is at the tool center point (TCP) compliant to ISO 9283.

There are occasions where restrictions can be made to the operation range of the J6 axis, depending on the J5 axis' posture.
The upper arm movable mass changes depending on the wrist movable mass.
The positional data of absolute encoder is backed up by the battery.

The battery backup period with the primary power OFF is approx. 3 years. Exceeding this period will require the battery replacement and the absolute offset adjustments.

5. The battery backup period may be shorter depending on the environmental conditions, the use conditions and so on. 6. A holding brake is provided in all axes





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DETROIT TECHNICAL CENTER



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