



Almega Friendly series

ARC WELDING ROBOT

FD-V8L



Faster
Stronger
Slimmer
Efficient

Long Arm
Load Capacity of 17.6 lb

New and improved in every way

Faster

15% improvement on all axes

Stronger

Payload increased 30%

Efficient

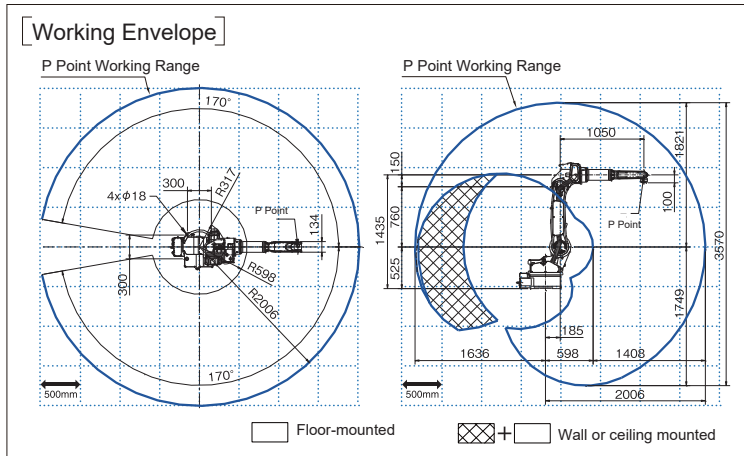
Incorporating cables improve operation

Slimmer

Best access to confined welds

Specifications

		FD-V8L	
Item		Specifications	
Structure		Vertical articulated type	
Number of axes		6	
Max. payload capacity		8 kg	
Positional repeatability		±0.08mm <small>Note 1</small>	
Drive system		AC Servo motor	
Drive capacity		5000 W	
Position feedback		Absolute encoder	
Working range	Arm	Axis J1 (Rotation)	±170° (±50°) <small>Note 2</small>
		Axis J2 (Lower arm)	-155°~ +100°
		Axis J3 (Upper arm)	-170°~ +260°
Wrist	Axis J4 (Swing)	±180°	
	Axis J5 (Bending)	-50°~ +230°	
	Axis J6 (Twist)	±360°	
Max. velocity	Arm	Axis J1 (Rotation)	3.40rad/s(3.05) {195°/s} (175°/s) <small>Note 3</small>
		Axis J2 (Lower arm)	3.49rad/s {200°/s}
		Axis J3 (Upper arm)	3.49rad/s {200°/s}
Wrist	Axis J4 (Swing)	7.50rad/s {430°/s}	
	Axis J5 (Bending)	7.50rad/s {430°/s}	
	Axis J6 (Twist)	10.99rad/s {630°/s}	
Wrist load	Allowable Moment	Axis J4 (Swing)	17.6 N*m
		Axis J5 (Bending)	17.6 N*m
		Axis J6 (Twist)	7.8 N*m
Allowable moment of inertia	Axis J4 (Swing)	0.43kg*m ²	
	Axis J5 (Bending)	0.43kg*m ²	
	Axis J6 (Twist)	0.09kg*m ²	
Arm operation cross-sectional area		7.48m ²	
Ambient conditions		0~45°C, 20 ~ 80%RH (No condensation)	
Mass (weight)		273kg	
Upper arm payload capacity		20kg <small>Note 4</small>	
Installation type		Floor, ceiling or wall hanging type	
Paint color		White (Munsell value 10gy9/1)	



Note 1:

The positional repeatability is pursuant to JIS B 8432 standards.

Note 2:

The values given in () apply when wall-mounted .

Note 3:

When wall mounted the working range of the J2 axis may be limited.

Note 4:

The upper arm payload capacity varies by max. payload capacity.

OTC DAIHEN Website
www.daihen-usa.com

DAIHEN ROBOT Website
www.daihen-robot.com



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