



OTC DAIHEN EUROPE

**Roboter – Technische Daten  
Manipulator Specifications**

**FD-V6L**

Model		<b>FD-V6L</b>	
Kinematic		Vertical artic. type	
No. of Axes		6	
P-Point (Working Range)		R 2,006 mm	
Maximum Payload Capacity		6 kg	
Positional Repeatability(*1)		± 0.08 mm	
Driving Method		AC Servo Motor	
Working Range	Arm	J1 (Rotation)	± 170°
		J2 (Vertical)	-155° ~ +100°
		J7	
	Wrist	J3* (Rotation)	-170° ~ +260°
		J4 (Rotation)	± 180°
		J5 (Bending)	-50° ~ +230°
Maximum Speed	Arm	J1 (Rotation)	195°/s
		J2 (Vertical)	200°/s
		J7	
	Wrist	J3* (Rotation)	200°/s
		J4 (Rotation)	420°/s
		J6 (Rotation)	620°/s
Maximum Payload	Allowable Moment	J1 (Rotation)	11.8 Nm
		J2 (Vertical)	9.8 Nm
		J3* (Rotation)	5.9 Nm
		J4 (Rotation)	0.30 kg/m <sup>2</sup>
		J5 (Bending)	0.25 kg/m <sup>2</sup>
		J6 (Rotation)	0.06 kg/m <sup>2</sup>
Ambient Temp./Humidity		0 ~ 45°, 20 ~ 80%	
Mass (weight)		280 kg	
Upper arm max. Carrying capacity(*2)		20 kg (Note 2)	
Origin Return		Note 3	
Installation Position		F, W, C	



J3\* (Rotation): A combined rotation of the axes J2 and J3  
 Note 1: Measured value obtained after sufficient repetition of automatic operation for stabilizing conditions.

Note 2: When the output flange of the wrist axis is loaded with maximum payload capacity.

Note 3: Positional data protected by battery-backed storage inside the manipulator.

F = Floor W = Wall C = Ceiling

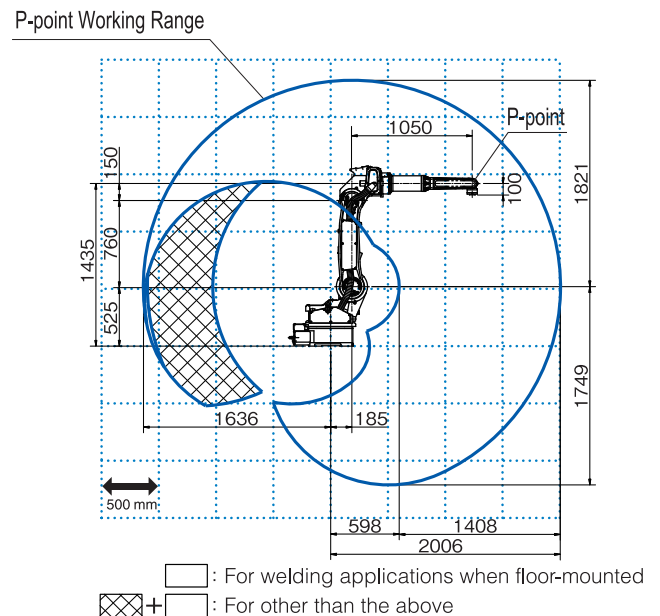
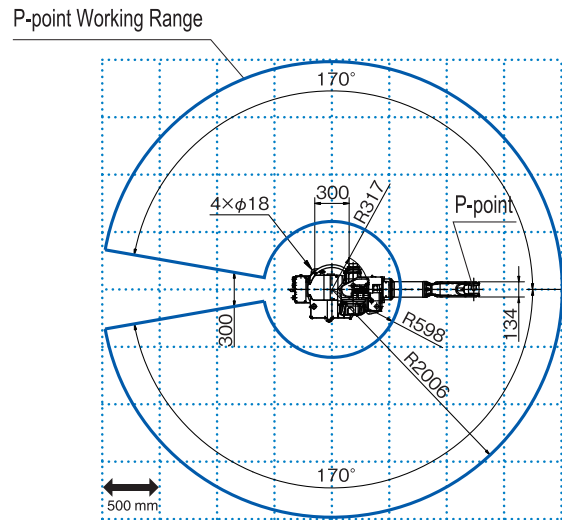


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Maximum Payload Capacity	6 kg		
Positional Repeatability(*1)	± 0.08 mm		
Driving Method	AC Servo Motor		
Working Range	Arm	J1 (Rotation) ± 170° J2 (Vertical) -155° ≈ +100° J7	
	Wrist	J3* (Rotation) -170° ≈ +260° J4 (Rotation) ± 180° J5 (Bending) -50° ≈ +230° J6 (Rotation) ± 360°	
		Maximum Speed	Arm J1 (Rotation) 195°/s J2 (Vertical) 200°/s J7
			Maximum Payload
	Allowable Moment		
		Ambient Temp./Humidity	
Mass (weight)		280 kg	
Upper arm max. Carrying capacity(*2)		20 kg (Note 2)	
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