



OTC DAIHEN EUROPE

**Roboter – Technische Daten
Manipulator Specifications**

FD-V500

Model		FD-V500	
Kinematic		Vertical artic. type	
No. of Axes		6	
P-Point (Working Range)		R 2,703 mm	
Maximum Payload Capacity		500 kg	
Positional Repeatability(*1)		± 0.5 mm	
Driving Method		AC Servo Motor	
Working Range	Arm	J1 (Rotation)	± 150°
		J2 (Vertical)	+55° ≈ -75°
		J7	
	Wrist	J3* (Rotation)	-125° ≈ +30°
		J4 (Rotation)	± 300°
		J5 (Bending)	± 120°
Maximum Speed	Arm	J6 (Rotation)	± 360°
		J1 (Rotation)	80°/s
		J2 (Vertical)	80°/s
	Wrist	J7	
		J3* (Rotation)	80°/s
		J4 (Rotation)	90°/s
Maximum Payload	Allowable Moment	J5 (Bending)	90°/s
		J6 (Rotation)	145°/s
		J1 (Rotation)	1960 Nm
		J2 (Vertical)	1960 Nm
		J3 (Rotation)	980 Nm
		J4 (Rotation)	200.00 kg/m ²
J5 (Bending)	200.00 kg/m ²		
J6 (Rotation)	147.00 kg/m ²		
Ambient Temp./Humidity		0 ≈ 45°, 20 ≈ 85%	
Mass (weight)		3,000 kg	
Upper arm max. Carrying capacity(*2)		30 kg	
Origin Return		Note 3	
Installation Position		F	



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