

Roboter – Technische Daten
Manipulator Specifications

FD-V50

Model		FD-V50	
Kinematic		Vertical artic. type	
No. of Axes		6	
P-Point (Working Range)		R 2,050 mm	
Maximum Payload Capacity		50 kg	
Positional Repeatability(*1)		± 0.07 mm	
Driving Method		AC Servo Motor	
Working Range	Arm	J1 (Rotation)	± 165°
		J2 (Vertical)	-135° ≈ +80°
		J7	
	Wrist	J3* (Rotation)	-146° ≈ +260°
		J4 (Rotation)	± 360°
		J5 (Bending)	± 125°
Maximum Speed	Arm	J6 (Rotation)	± 450°
		J1 (Rotation)	180°/s
		J2 (Vertical)	180°/s
	Wrist	J7	
		J3* (Rotation)	180°/s
		J4 (Rotation)	255°/s
Maximum Payload	Allowable Moment	J5 (Bending)	255°/s
		J6 (Rotation)	370°/s
		J1 (Rotation)	210 Nm
		J2 (Vertical)	210 Nm
		J3* (Rotation)	130 Nm
		J4 (Rotation)	30.00 kg/m ²
J5 (Bending)	30.00 kg/m ²		
Ambient Temp./Humidity		0 ≈ 45°, 20 ≈ 80%	
Mass (weight)		640 kg	
Upper arm max. Carrying capacity(*2)		15 kg	
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