



OTC DAIHEN EUROPE

Roboter – Technische Daten
Manipulator Specifications

FD-V20

Model		FD-V20	
Kinematic		Vertical artic. type	
No. of Axes		6	
P-Point (Working Range)		R 1,710 mm	
Maximum Payload Capacity		20 kg	
Positional Repeatability(*1)		± 0.07 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	J6 (Rotation)	± 360°
		J1 (Rotation)	195°/s
		J2 (Vertical)	190°/s
	Wrist	J7	
		J3 (Rotation)	180°/s
		J4 (Rotation)	400°/s
Maximum Payload	Allowable Moment	J5 (Bending)	400°/s
		J6 (Rotation)	600°/s
		J1 (Rotation)	43.7 Nm
		J2 (Vertical)	43.7 Nm
		J3 (Rotation)	19.6 Nm
		J4 (Rotation)	1.09 kg/m ²²
Ambient Temp./Humidity		0 ≈ 45°, 20 ≈ 80%	
Mass (weight)		285 kg	
Upper arm max. Carrying capacity(*2)		20 kg	
Origin Return		Note 3	
Installation Position		F, W, C	



- 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



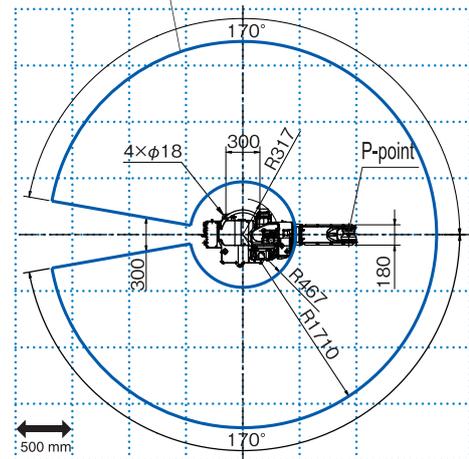
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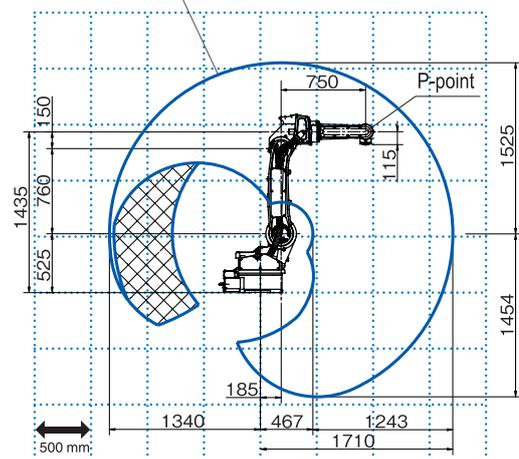
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Driving Method	AC Servo Motor			
Working Range	Arm	J1 (Rotation) ± 170° J2 (Vertical) -155° ≈ +100° J7		
	Wrist	J3 (Rotation) -170° ≈ +260° J4 (Rotation) ± 180° J5 (Bending) -50° ≈ +230° J6 (Rotation) ± 360°		
	Maximum Speed	Arm	J1 (Rotation) 195°/s J2 (Vertical) 190°/s J7	
		Wrist	J3 (Rotation) 180°/s J4 (Rotation) 400°/s J5 (Bending) 400°/s J6 (Rotation) 600°/s	
		Maximum Payload	Allowable Moment	J1 (Rotation) 43.7 Nm J2 (Vertical) 43.7 Nm J3 (Rotation) 19.6 Nm J4 (Rotation) 1.09 kg/m ²² J5 (Bending) 1.09 kg/m ²² J6 (Rotation) 0.24 kg/m ²²
			Ambient Temp./Humidity	0 ≈ 45°, 20 ≈ 80%
Mass (weight)			285 kg	
Upper arm max. Carrying capacity(*2)			20 kg	
Origin Return	Note 3			
Installation Position	F, W, C			

P-point Working Range



P-point Working Range



□ : For welding applications when floor-mounted
 □+ : For other than the above

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