



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



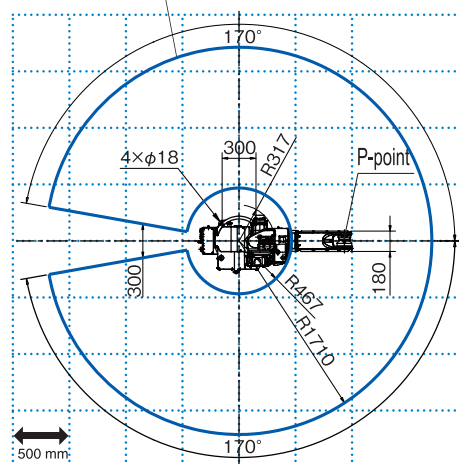
OTC DAIHEN EUROPE

**Roboter – Technische Daten
Manipulator Specifications**

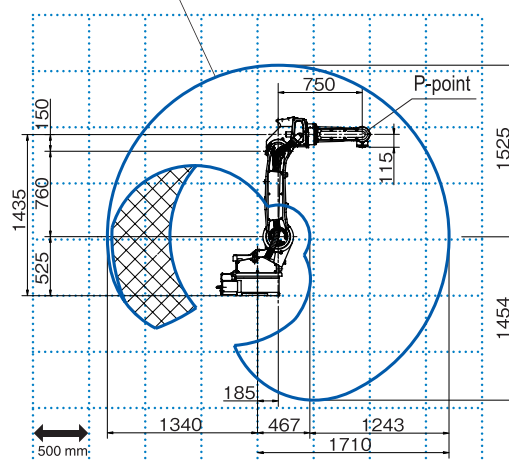
FD-V20

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° 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
	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

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 = Ceilling

