



OTC DAIHEN EUROPE

**Roboter – Technische Daten
Manipulator Specifications**

FD-MR20

Model		FD-MR20	
Kinematic		Vertical artic. type	
No. of Axes		7	
P-Point (Working Range)		R 1,260 mm	
Maximum Payload Capacity		20 kg	
Positional Repeatability(*1)		± 0.06 mm	
Driving Method		AC Servo Motor	
Working Range	Arm	J1 (Rotation)	± 180°
		J2 (Vertical)	+55° ≈ -120°
		J7	± 180°
	Wrist	J3 (Rotation)	+135° ≈ -166°
		J4 (Rotation)	± 180°
		J5 (Bending)	± 135°
Maximum Speed	Arm	J6 (Rotation)	± 360°
		J1 (Rotation)	170°/s
		J2 (Vertical)	170°/s
	Wrist	J7	170°/s
		J3 (Rotation)	170°/s
		J4 (Rotation)	250°/s
Maximum Payload	Allowable Moment	J5 (Bending)	250°/s
		J6 (Rotation)	300°/s
		J4 (Rotation)	80.8 Nm
		J5 (Vertical)	80.8 Nm
		J6 (Rotation)	44.1 Nm
		J4 (Rotation)	6.00 kg/m ²
J5 (Bending)	6.00 kg/m ²		
J6 (Rotation)	2.30 kg/m ²		
Ambient Temp./Humidity		0 ≈ 45°	
Mass (weight)		230 kg	
Upper arm max. Carrying capacity(*2)		30 kg	
Origin Return		Note 3	
Installation Position		F, 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

