



OTC DAIHEN EUROPE

**Roboter – Technische Daten**  
**Manipulator Specifications**

**FD-V20S**

Model		<b>FD-V20S</b>	
Kinematic		Vertical artic. type	
No. of Axes		7	
P-Point (Working Range)		R 1,710 mm	
Maximum Payload Capacity		20 kg	
Positional Repeatability(*1)		± 0.08 mm	
Driving Method		AC Servo Motor	
Working Range	Arm	J1 (Rotation)	± 170°
		J2 (Vertical)	-145° ≈ +70°
		J7	±90°
	Wrist	J3 (Rotation)	-170° ≈ +160°
		J4 (Rotation)	± 180°
		J5 (Bending)	-50° ≈ +230°
Maximum Speed	Arm	J1 (Rotation)	195°/s
		J2 (Vertical)	190°/s
		J7	160°/s
	Wrist	J3 (Rotation)	180°/s
		J4 (Rotation)	400°/s
		J5 (Bending)	400°/s
Maximum Payload	Allowable Moment	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 <sup>22</sup>
		J5 (Bending)	1.09 kg/m <sup>22</sup>
Ambient Temp./Humidity		0 ≈ 45°, 20 ≈ 80%	
Mass (weight)		321 kg	
Upper arm max. Carrying capacity(*2)		20 kg	
Origin Return		Note 3	
Installation Position		Floor type	



- 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

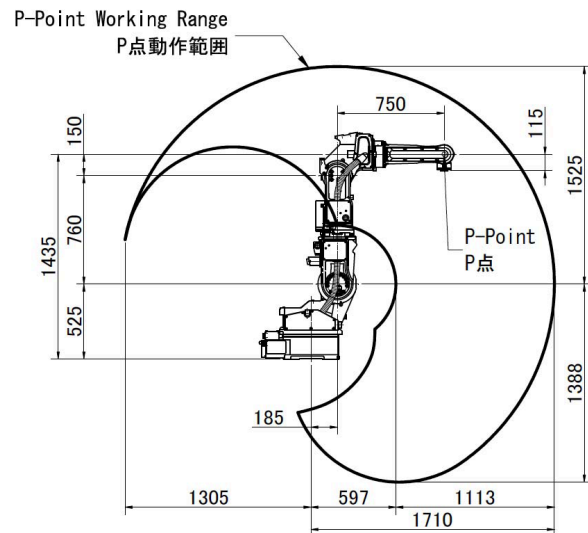
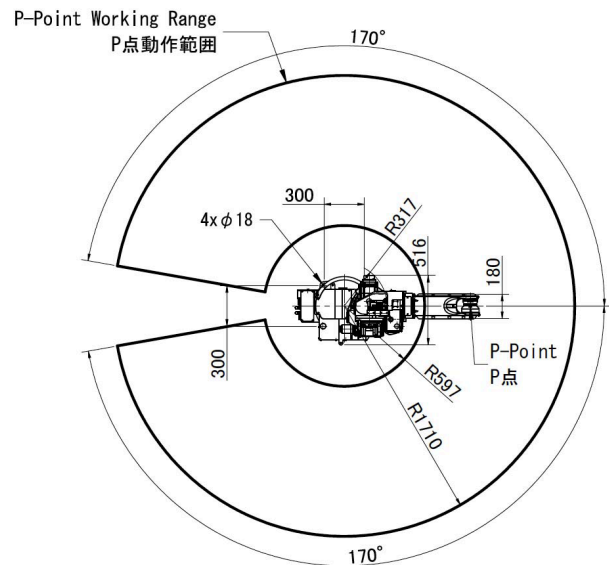


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		J3 (Rotation)	19.6 Nm
		J4 (Rotation)	1.09 kg/m <sup>22</sup>
		J5 (Bending)	1.09 kg/m <sup>22</sup>
		J6 (Rotation)	0.24 kg/m <sup>22</sup>
Ambient Temp./Humidity		0 ≈ 45°, 20 ≈ 80%	
Mass (weight)		321 kg	
Upper arm max. Carrying capacity(*2)		20 kg	
Origin Return		Note 3	
Installation Position		Floor type	



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