



OTC DAIHEN EUROPE

**Roboter – Technische Daten  
Manipulator Specifications**

**FD-V166**

Model		<b>FD-V166</b>	
Kinematic		Vertical artic. type	
No. of Axes		6	
P-Point (Working Range)		R 2,654 mm	
Maximum Payload Capacity		166 kg	
Positional Repeatability(*1)		± 0.1 mm	
Driving Method		AC Servo Motor	
Working Range	Arm	J1 (Rotation)	± 180°
		J2 (Vertical)	-80° ≈ +60°
		J7	
	Wrist	J3* (Rotation)	-146,5° ≈ +150°
		J4 (Rotation)	± 360°
		J5 (Bending)	± 135°
Maximum Speed	Arm	J6 (Rotation)	± 360°
		J1 (Rotation)	125°/s
		J2 (Vertical)	115°/s
	Wrist	J7	
		J3* (Rotation)	121°/s
		J4 (Rotation)	180°/s
Maximum Payload	Allowable Moment	J5 (Bending)	173°/s
		J6 (Rotation)	260°/s
		J1 (Rotation)	951 Nm
		J2 (Vertical)	951 Nm
		J3* (Rotation)	490 Nm
		J4 (Rotation)	88.90 kg/m <sup>2</sup>
J5 (Bending)	88.90 kg/m <sup>2</sup>		
J6 (Rotation)	45.00 kg/m <sup>2</sup>		
Ambient Temp./Humidity		0 ≈ 45°, 20 ≈ 85%	
Mass (weight)		960 kg	
Upper arm max. Carrying capacity(*2)		90 kg	
Origin Return		Note 3	
Installation Position		F	



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



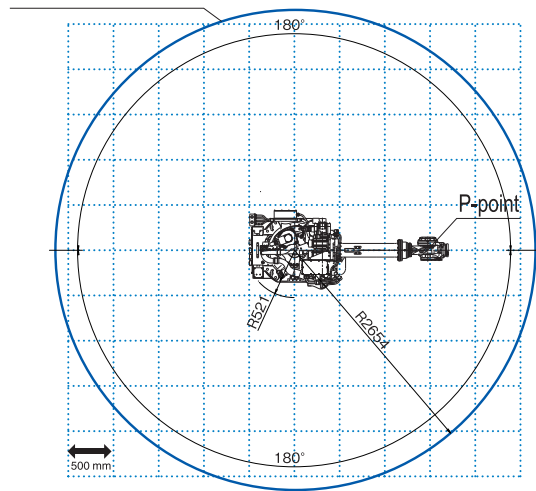
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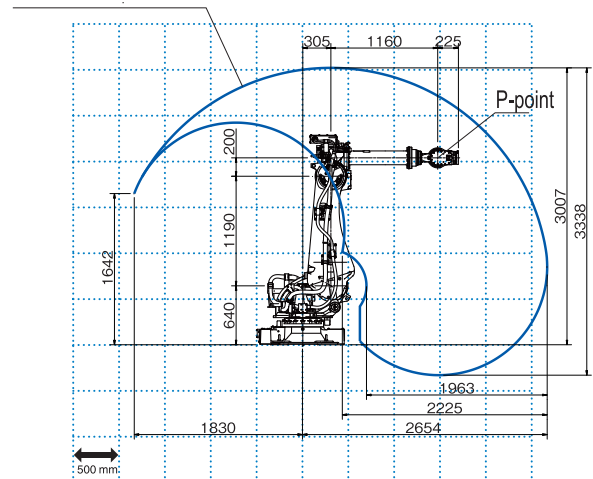
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Mass (weight)	960 kg		
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Origin Return	Note 3		
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P-point Working Range



P-point Working Range



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