

Super Heavy Payload Robot

FANUC Robot M-900iB

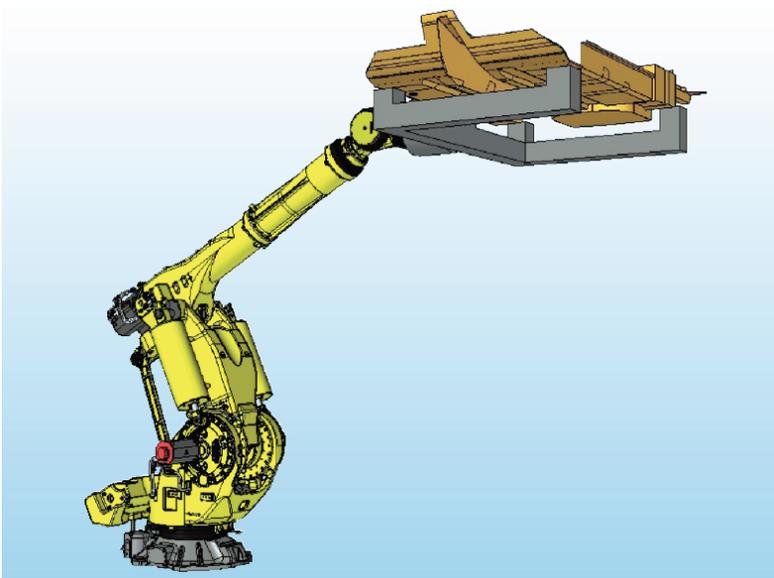


Features

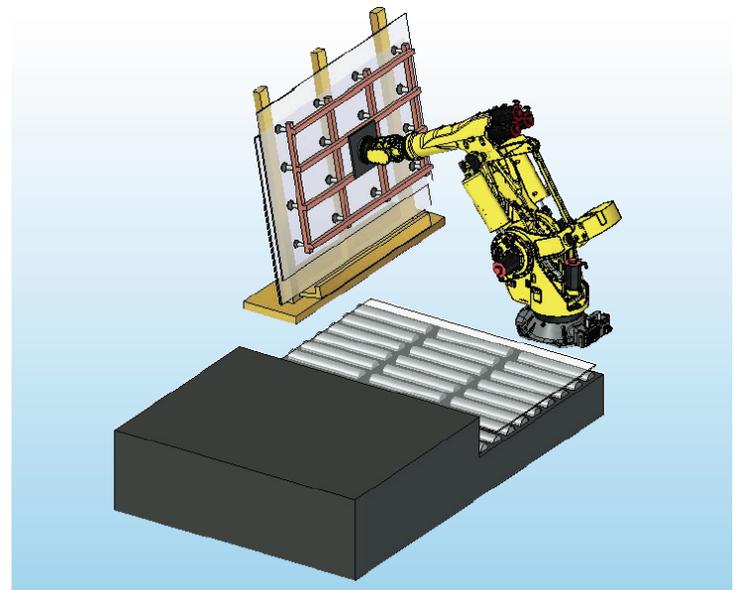
The M-900iB is a heavy payload robot with a wrist capacity of 400kg to 700kg. A wide motion envelope and outstanding motion performance makes this robot ideal for large, heavy part handling.

- Two models are available for a variety of applications
 - The M-900iB/700 has a strong wrist and wide motion envelope and a 700kg payload. This enables transfer of large parts such as glass panels, building construction frames and construction machinery.
 - The M-900iB/400L has a long arm with a 400kg payload and 3700mm reach. This model has a wide motion envelope and can be used to handle large parts
- A rigid body enables stable transferring of large and heavy work pieces and is also suitable for applications with a large reaction force.
- An IP67-equivalent wrist allows for use in severe environments (dust and liquid).
- Latest intelligent features with iRVision are available.

Application system



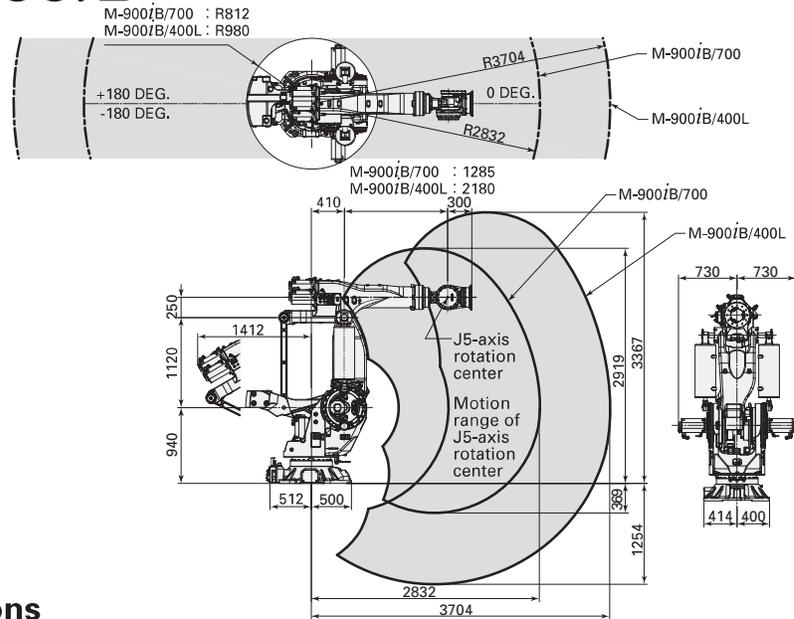
Car Body Transferring



Large Glass Panel Handling

FANUC Robot M-900iB

Operating space



Specifications

Item	Specification	
	M-900iB/700	M-900iB/400L
Type	Articulated Type	
Controlled axes	6 axes (J1, J2, J3, J4, J5, J6)	
Reach	2832mm	3704mm
Installation	Floor	
Motion range (Maximum speed) (Note 1)	J1 axis rotation	360°(80°/s) 6.28 rad (1.40 rad/s)
	J2 axis rotation	154°(80°/s) 2.69 rad (1.40 rad/s)
	J3 axis rotation	160°(80°/s) 2.79 rad (1.40 rad/s)
	J4 axis wrist rotation	720°(100°/s) 12.57 rad (1.75 rad/s)
	J5 axis wrist swing	244°(100°/s) 4.26 rad (1.75 rad/s)
	J6 axis wrist rotation	720°(160°/s) 12.57 rad (2.79 rad/s)
Max. load capacity at wrist	700kg	400kg
Max. load capacity at J2 base	550kg	
Max. load capacity at J3 arm	25kg	
Allowable load moment at wrist	J4 axis	3400 N·m 347 kgf·m
	J5 axis	3400 N·m 347 kgf·m
	J6 axis	2744 N·m 280 kgf·m
Allowable load inertia at wrist	J4 axis	1725 N·m 176 kgf·m
	J5 axis	1098 kg·m ² 11200 kgf·cm·s ²
	J6 axis	1098 kg·m ² 11200 kgf·cm·s ²
Drive method	Electric servo drive by AC servo motor	
Repeatability	±0.3mm	±0.5mm
Mass (Note 2)	2800kg	3150kg
Installation environment	Ambient temperature : 0~45°C Ambient humidity : Normally 75%RH or less (No dew nor frost allowed) Short term 95%RH or less (within one month) Vibration acceleration : 4.9m/s ² (0.5G) or less	

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