

FANUC Robot M-2000iA

FEATURES

“Super Heavy Payload Robot” FANUC Robot M-2000iA is the heavy payload robot whose wrist payload capacity is 900kg - 1350kg.

- Two models are available to meet a variety of applications.

- FANUC Robot M-2000iA/1200

This model is a heavy payload type which has 1350kg payload capacity. (with option) This model can transfer a heavy work piece of 1 ton alone that needed two synchronized robots in the past.

- FANUC Robot M-2000iA/900L

This model is a long arm type which has 900kg payload capacity and 4.7m maximum reach. The 6.2m vertical stroke can be applied to lifting car body instead of specifically designed lifter at automotive plant.

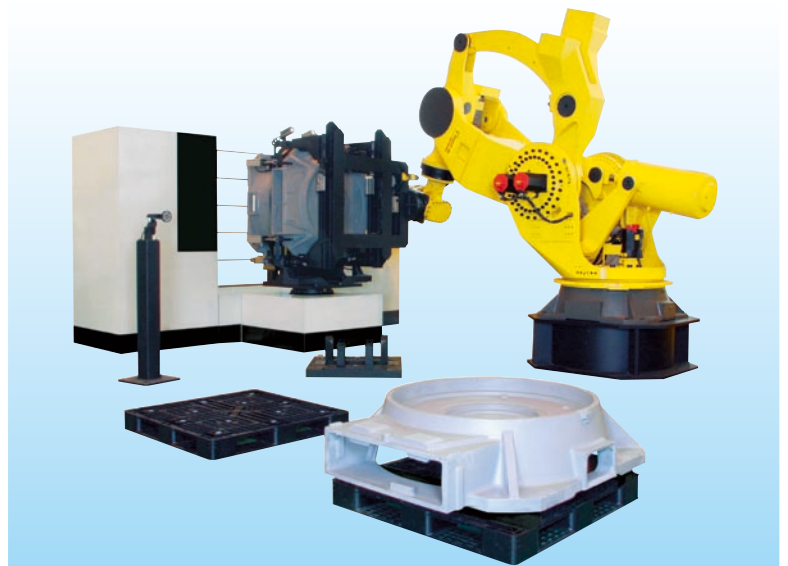
- The wrist can be used safely in adverse environments because it has IP67-equivalent resistance to environmental conditions (dust and drip).



Application system



Tractor frame handling by M-2000iA/900L

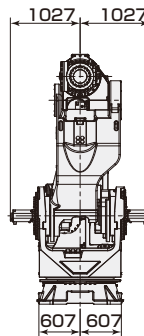
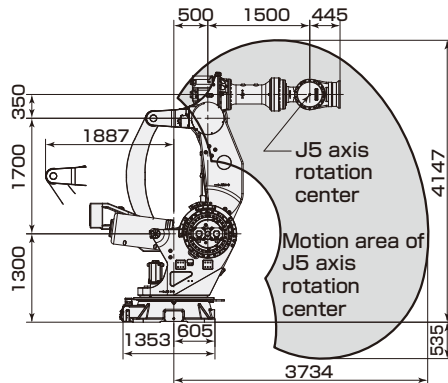
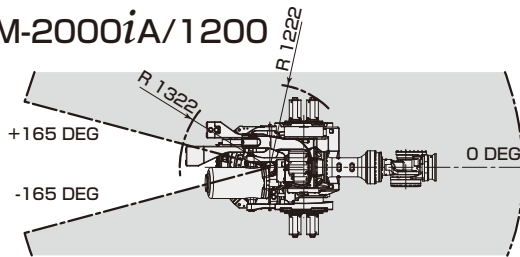


Set casting on machining jig by M-2000iA/1200

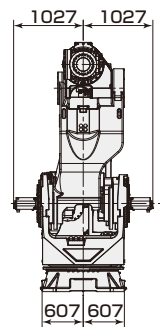
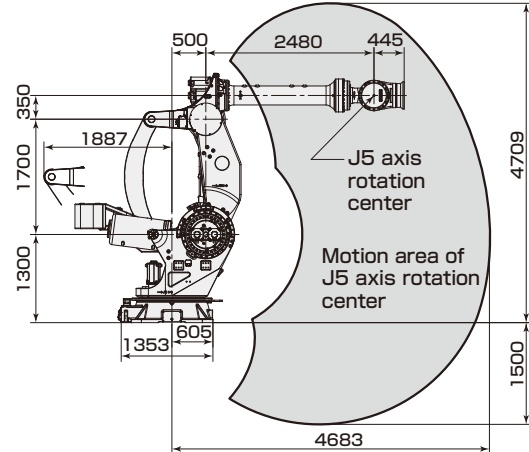
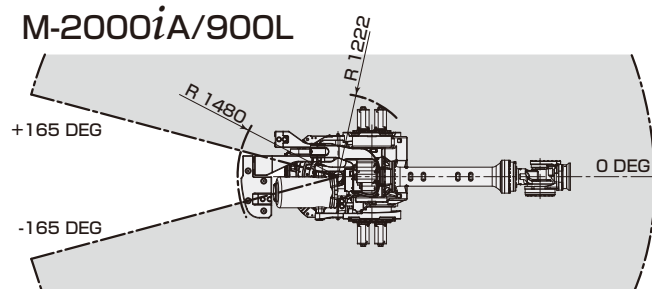
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Operating space

M-2000iA/1200



M-2000iA/900L



Specifications

Item	Specifications	
	M-2000iA/1200	M-2000iA/900L
Type	Articulated Type	
Controlled axes	6 axes (J1, J2, J3, J4, J5, J6)	
Reach	3734mm	4683mm
Installation	Floor	
Motion range (Maximum speed) (Note 1)	J1 axis rotation	330° (45° /s) 5.76 rad (0.79 rad/s)
	J2 axis rotation	160° (30° /s) 2.79 rad (0.52 rad/s)
	J3 axis rotation	160° (25° /s) 2.79 rad (0.44 rad/s) (Note 2)
	J4 axis wrist rotation	165° (30° /s) 2.88 rad (0.52 rad/s)
	J5 axis wrist swing	720° (50° /s) 12.57 rad (0.87 rad/s)
	J6 axis wrist rotation	240° (50° /s) 4.19 rad (0.87 rad/s)
Max. load capacity at wrist	1200kg 1350kg (Note 2)	900kg
Max. load capacity at J2 base	550kg	
Max. load capacity at J3 arm	50kg	
Allowable load moment at wrist	J4 axis	14700 N·m 1500 kgf·m
	J5 axis	14700 N·m 1500 kgf·m
	J6 axis	4900 N·m 500 kgf·m
Allowable load inertia at wrist	J4 axis	2989 kg·m ² 30500 kgf·cm·s ²
	J5 axis	2989 kg·m ² 30500 kgf·cm·s ²
	J6 axis	2195 kg·m ² 22400 kgf·cm·s ²
Drive method	Electric servo drive by AC servo motor	
Repeatability	± 0.3 mm	± 0.5 mm
Mass (Note 3)	8600 kg	9600 kg
Installation environment	Ambient temperature : 0~45°C	
	Ambient humidity : Normally 75%RH or less (No dew, nor frost allowed)	
	Short term Max. 95%RH or less (within one month)	
	Vibration acceleration : 4.9m/s ² (0.5G) or less	

Note 1) In case of short distance motion, the axis speed may not reach the maximum value stated.

Note 2) With 1350kg option.

Note 3) Without controller.

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