Super Heavy Payload Robot

FANUC Robot M-2000*i*A

MOTION CONTROLS ROBOTICS
Sales: (419) 334-5886
www.motioncontrolsrobotics.com
CERTIFIED SERVICING
CERTIFIED VISION SPECIALIST
FANUC Robotics
AUTHORIZED INTEGRATOR

Features

The Super Heavy Payload FANUC M-2000*i*A Robot
Has a payload capacity range of 900kg – 2300kg

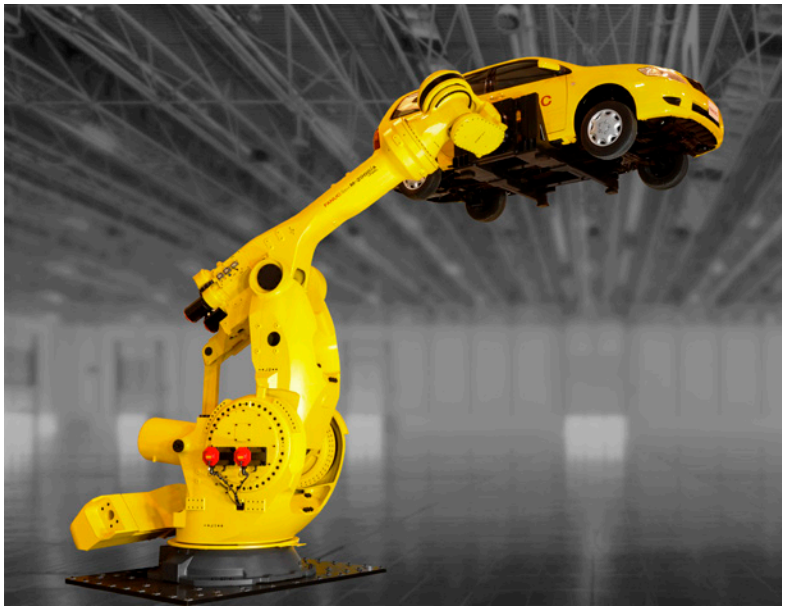
- Four models are available to meet a variety of applications.

- FANUC Robot M-2000*i*A/1200
- FANUC Robot M-2000*i*A/2300
  These models can handle payloads up to 1200kg (1350kg option) and 2300kg, combined with a 3.7m reach and 4.6m vertical stroke.
  They can be applied to handling heavy work pieces such as large castings and structures.

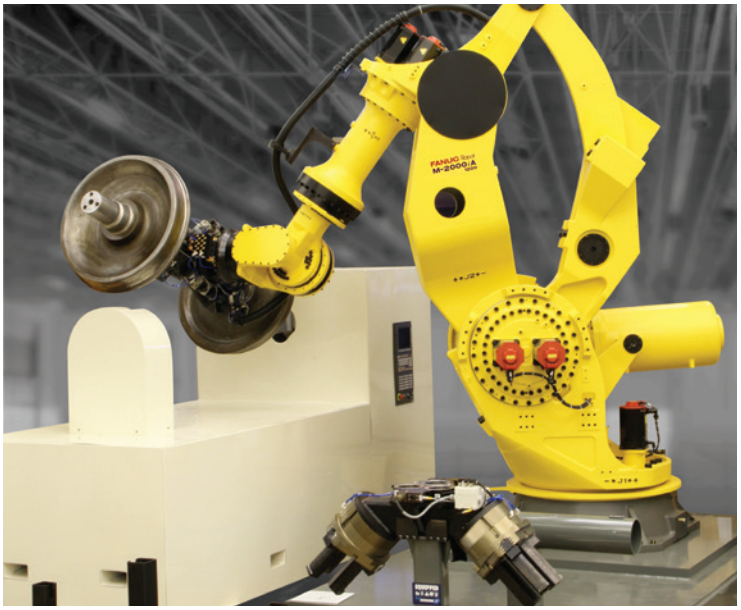
- FANUC Robot M-2000*i*A/900L
- FANUC Robot M-2000*i*A/1700L
  These models have a long arm with 900kg and 1700kg payloads, and a 4.7m reach and 6.2m vertical stroke.
  These models have a wide motion envelope and can be applied to lifting and handling large structures.

- The wrist can be used safely in adverse environments because it has IP67-equivalent resistance to environmental conditions (dust and liquids).
- Latest intelligent functions with iRVision (integrated vision) are available.

Application system



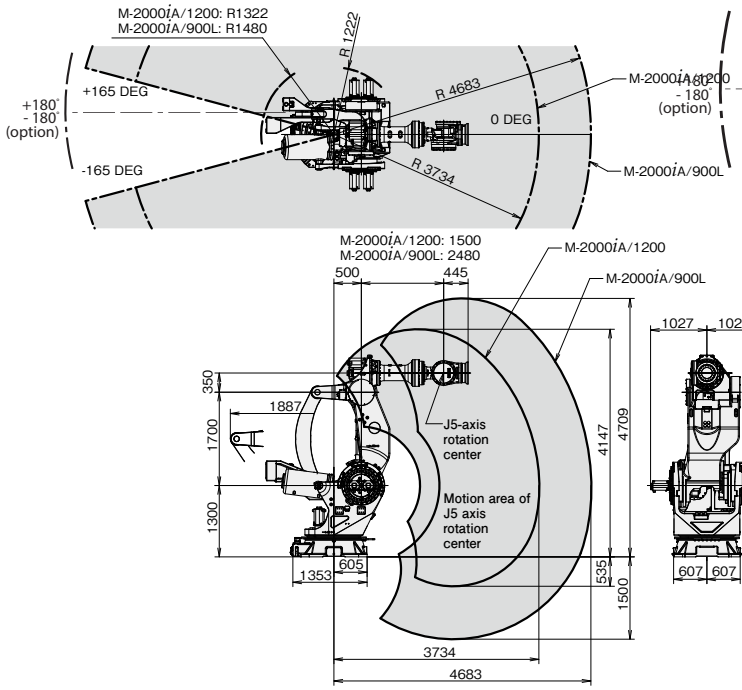
M-2000*i*A/1700L car body transfer



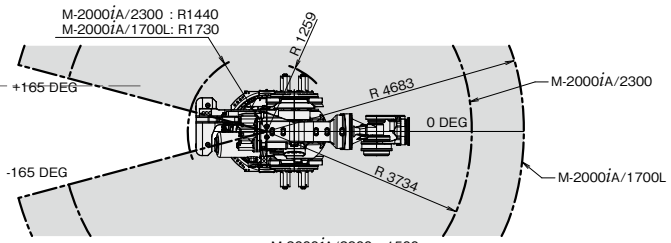
M-2000*i*A/1200 heavy payload machining

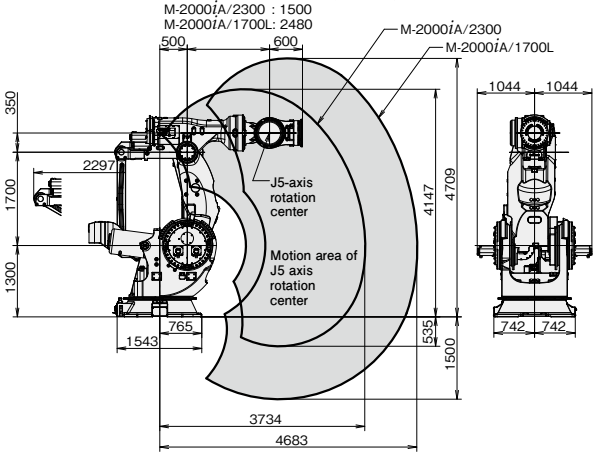
Operating space

M-2000*i*A/1200,/900L



M-2000*i*A/2300,/1700L





Specifications

Item		Specifications			
		M-2000*i*A/1200	**M-2000*i*A/900L**	**M-2000*i*A/2300**	**M-2000*i*A/1700L**
Type		Articulated Type			
Controlled axes		6 axes (J1, J2, J3, J4, J5, J6)			
Reach		3734 mm	4683 mm	3734 mm	4683 mm
Installation		Floor			
Motion range (Maximum speed) (Note1)	J1 axis rotation	330° (45°/s) 5.76 rad (0.79 rad/s)		330° (20°/s) 5.76 rad (0.35 rad/s)	
	J2 axis rotation	160° (30°/s) 2.79 rad (0.52 rad/s)		160° (14°/s) 2.79 rad (0.24 rad/s)	
	J3 axis rotation	165° (30°/s) 2.88 rad (0.52 rad/s)		165° (14°/s) 2.88 rad (0.24 rad/s)	
	J4 axis wrist rotation	720° (50°/s) 12.57 rad (0.87 rad/s)		720° (18°/s) 12.57 rad (0.31 rad/s)	
	J5 axis wrist swing	240° (50°/s) 4.19 rad (0.87 rad/s)		240° (18°/s) 4.19 rad (0.31 rad/s)	
	J6 axis wrist rotation	720° (70°/s) 12.57 rad (1.22 rad/s)		720° (40°/s) 12.57 rad (0.70 rad/s)	
Max. load capacity at wrist		1200 kg 1350 kg (Note2)	900 kg	2300 kg	1700 kg
Max. load capacity at J2 base		550 kg			
Max. load capacity at J3 arm		50 kg			
Allowable load moment at wrist	J4 axis	14700 N·m 1500 kgf·m		29400 N·m 3000 kgf·m	
	J5 axis	14700 N·m 1500 kgf·m		29400 N·m 3000 kgf·m	
	J6 axis	4900 N·m 500 kgf·m		8820 N·m 900 kgf·m	
Allowable load inertia at wrist	J4 axis	2989 kg·m² 30500 kgf·cm·s²		7500 kg·m² 76531 kgf·cm·s²	
	J5 axis	2989 kg·m² 30500 kgf·cm·s²		7500 kg·m² 76531 kgf·cm·s²	
	J6 axis	2195 kg·m² 22400 kgf·cm·s²		5500 kg·m² 56122 kgf·cm·s²	
Drive method		Electric servo drive by AC servo motor			
Repeatability		± 0.3 mm	± 0.5 mm	± 0.3 mm	± 0.5 mm
Mass (Note3)		8600 kg	9600 kg	11000 kg	12500 kg
Installation environment		Ambient temperature : 0 to 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 : 4.9 m/s² (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.

FANUC

FANUC AMERICA CORPORATION
3900 WEST HAMLIN ROAD
ROCHESTER HILLS MI 48309-3253

MOTION CONTROLS ROBOTICS
Sales: (419) 334-5886
www.motioncontrolsrobotics.com
CERTIFIED SERVICING
CERTIFIED VISION SPECIALIST
FANUC Robotics
AUTHORIZED INTEGRATOR

© 2016 FANUC America Corporation. All Rights Reserved.

FANUC LITHO IN U.S.A. FRA - 2/18/2016