

# M-900iA/600

## Basic Description

FANUC Robotics' M-900iA/600 robot is engineered for precision, high-speed/high payload operation, user-friendly setup and maximum reliability supported by our extensive service and parts network.

The M-900iA/600 is a six-axis, modular construction, electric servo-driven robot designed for a variety of manufacturing and system processes.

### M-900iA/600, the solution for:

- Heavy duty material handling (replaces cranes by robots)
- Machine load & unload for very heavy large work pieces
- Layer palletising of bricks, bottles and other heavy products
- Automotive body handling, body lifting
- Construction equipment part handling



Perpetual Motion  
**FANUC**  
Robotics

The M-900iA/600 represents the advanced evolution of our rugged S-900iB series of heavy payload robots.

### ■ Features and ► Benefits

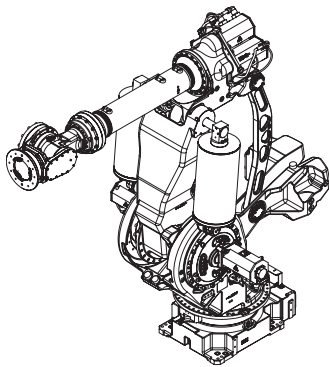
- M-900iA/600 is designed with the same technology as the R-2000iA series, our highest selling robots
  - High reliability and high performance
- Has a 600 kg payload capacity, the largest for a 6 axes articulated robot, with matching wrist capacity (moment and inertia)
  - Can be used for very heavy, large work pieces
- Large work envelope
  - Can be used for handling large parts > 2 m x 3 m
- Fastest axis speed
  - Can handle very large parts speedily, e.g. transferring of building construction frames
- M-900iA/600 is controlled by the latest R-J3iB controller
  - Customer can use the newest robot control functions
  - With robot link software option 4 units of M-900iA/600 can handle 2400 kg!

### Options

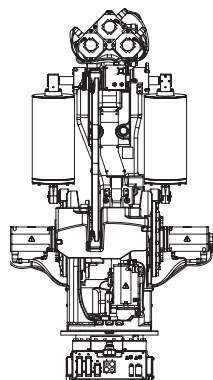
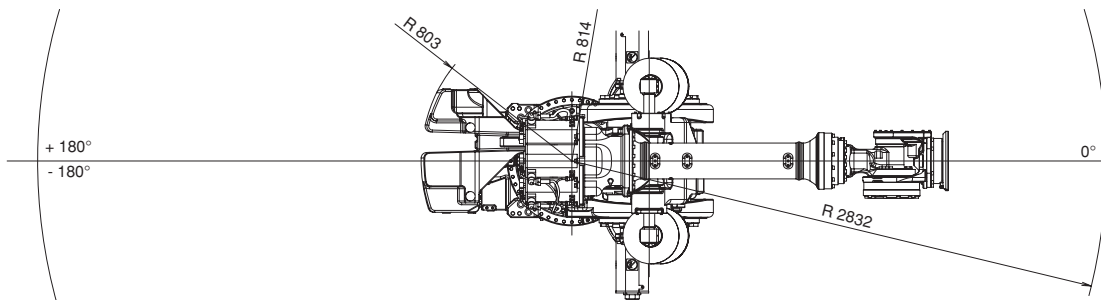
- Severe dust and liquid protection package for harsh environments
- Standard baseplate for quick robot installation
- Auxiliary axes packages for integration of peripheral servo-controlled devices
- Adjustable hard stops for J1 and J2
- Various robot connection cable lengths for flexible cabinet placement and optional track rated cables
- iPendant, a color, Internet-ready teach pendant for even easier programming and custom cell user interface design

# M-900iA/600 Dimensions

## Isometric

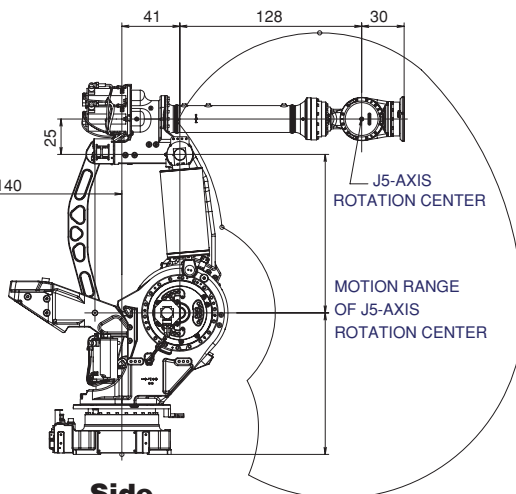


## Top

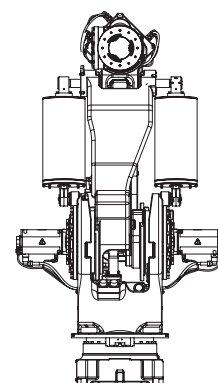


**Back**

REAR SIDE  
INTERFERENCE AREA



**Side**



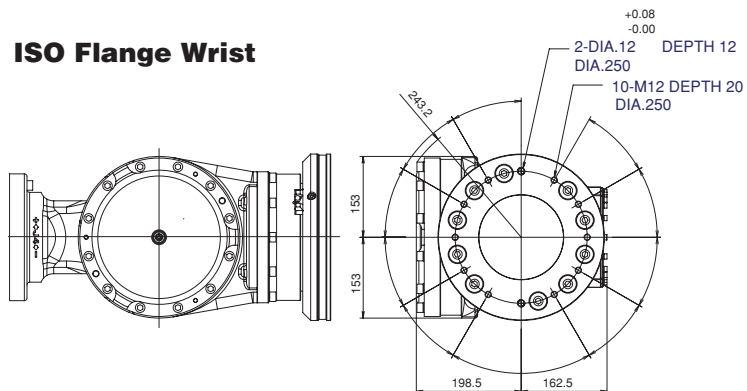
**Front**

## M-900iA/600 Specifications

Items		
Type	Articulated type	
Axes	6	
Payload - Wrist	600 kg	
Reach	2830 mm	
Motion range (Max. speed)	J1 axis rotation	360° (80°/s)
	J2 axis rotation	154° (80°/s)
	J3 axis rotation	160° (80°/s)
	J4 axis wrist rotation	720° (100°/s)
	J5 axis wrist swing	244° (100°/s)
	J6 axis wrist rotation	720° (160°/s)
Allowable load moment at wrist	J4 axis	3381 Nm
	J5 axis	3381 Nm
	Note 1) J6 axis	1725 Nm
Allowable load inertia at wrist	J4 axis	510 kg·m <sup>2</sup>
	J5 axis	510 kg·m <sup>2</sup>
	Note 1) J6 axis	320 kg·m <sup>2</sup>
Mechanical brakes	All axes	
Mechanical weight (kg)	2800	
Mounting method	Floor, ceiling	
Installation environment:		
Ambient temperature	0 °C to 45 °C	
Humidity	Normally: 75% or less	
	Short term (within a month): 95% or less	
	No condensation.	
	(No dew or frost allowed)	
Vibration (m/s <sup>2</sup> )	4.9 or less (0.5G or less)	

Note 1) It indicates the value at max. payload. Allowable load moment and inertia at wrist are changed by load.

## ISO Flange Wrist



### Note:

Dimensions are shown in millimeters.

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