

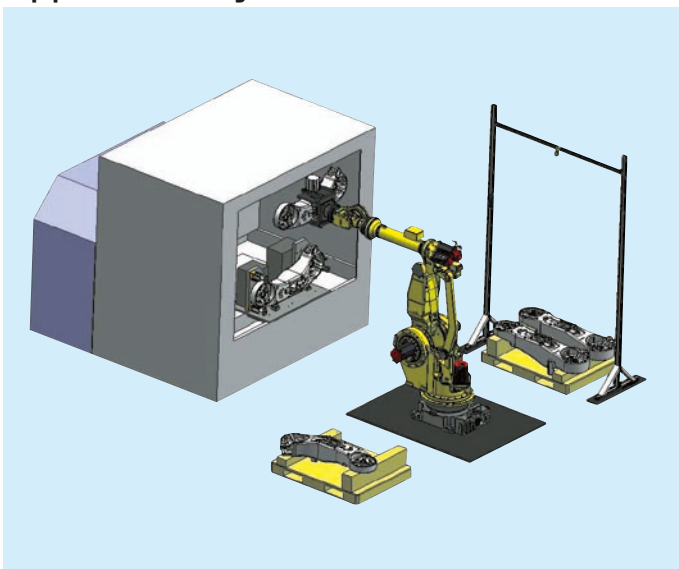
# FANUC Robot M-900*i*A



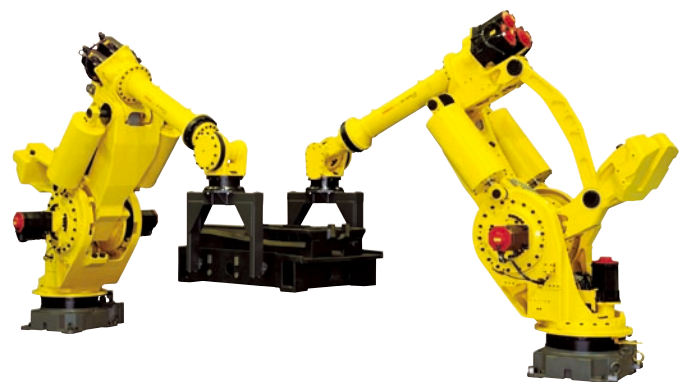
## FEATURES

- FANUC Robot M-900*i*A is the heavy payload whose wrist payload capacity is 150kg - 700kg.
- Six models are available to meet a variety of applications.
  - FANUC Robot M-900*i*A/600  
This model is a heavy payload type whose wrist payload capacity is up to 700kg.
  - FANUC Robot M-900*i*A/400L  
This model is a long arm type which has a 400kg payload capacity and 3.6m maximum reach.
  - FANUC Robot M-900*i*A/350  
This model has a 350kg payload capacity and can be mounted on a floor and on a ceiling.
  - FANUC Robot M-900*i*A/260L  
This model is a long arm type which has a 260kg payload capacity and 3.1 m maximum reach.
  - FANUC Robot M-900*i*A/200P  
This model is a high-speed press handling type which has a 200kg payload capacity and 3.5m maximum reach.
  - FANUC Robot M-900*i*A/150P  
This model is a 150kg payload capacity and 3.5m maximum reach. And it can be mounted on a rack.
- The wrist can be used safely in adverse environments because it has IP67-equivalent resistance to environmental conditions (dust and drip).
- Latest intelligent functions with *i*RVision (integrated vision) are available.

## Application system

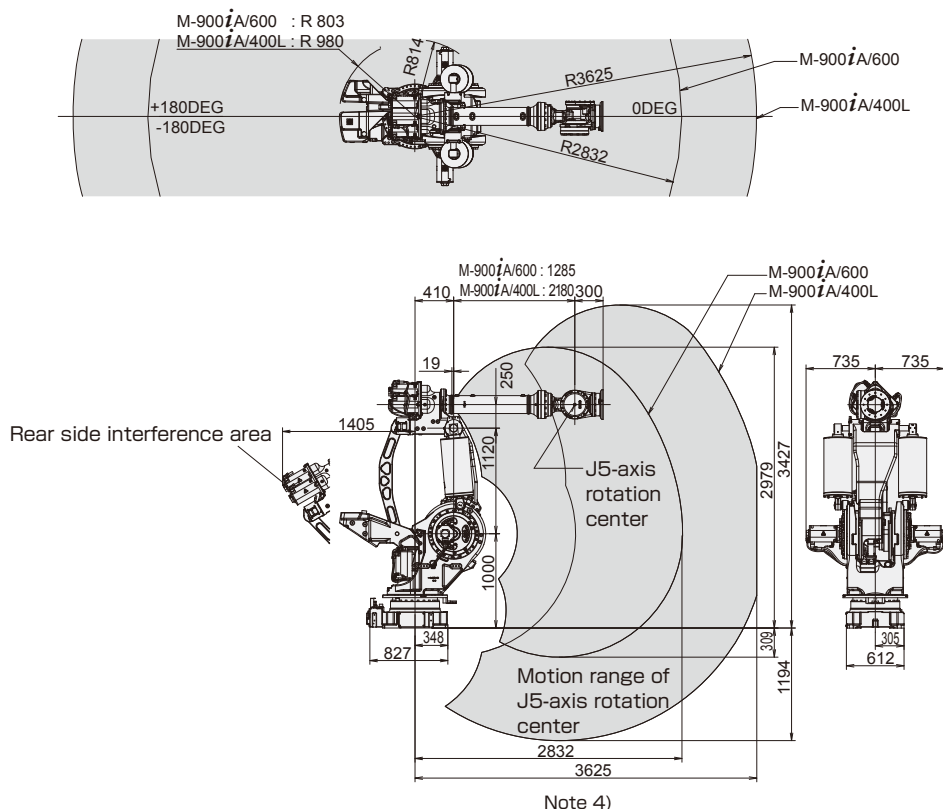


Set casting on machining jig by M-900*i*A/350



Handle large casting by 2 units of M-900*i*A/600

## Operating space (M-900iA/600, /400L)



## Specifications

Item		Specifications	
		M-900iA/600	M-900iA/400L
Type		Articulated Type	
Controlled axes		6 axes (J1, J2, J3, J4, J5, J6)	
Reach		2832mm	3625mm(Note 4)
Installation		Floor	
Motion range (Maximum speed) Note 1)	J1 axis rotation	360° (80° /sec) 6.28rad (1.40rad/sec)	
	J2 axis rotation	154° (80° /sec) 2.69rad (1.40rad/sec)	
	J3 axis rotation	160° (80° /sec) 2.79rad (1.40rad/sec)	
	J4 axis wrist rotation	720° (100° /sec) 12.57rad (1.75rad/sec)	
	J5 axis wrist swing	244° (100° /sec) 4.26rad (1.75rad/sec)	
	J6 axis wrist rotation	720° (160° /sec) 12.57rad (2.79rad/sec)	
	Max. load capacity at wrist	600kg (Max 700kg) Note 2)	
Max. load capacity on J3 arm		25kg	
Allowable load moment at wrist	J4 axis	3381N·m 345kgf·m	2744N·m 280kgf·m
	J5 axis	3381N·m 345kgf·m	2744N·m 280kgf·m
	J6 axis	1725N·m 176kgf·m	1725N·m 176kgf·m
Allowable load inertia at wrist	J4 axis	510kg·m <sup>2</sup> 5204kgf·cm·s <sup>2</sup>	
	J5 axis	510kg·m <sup>2</sup> 5204kgf·cm·s <sup>2</sup>	
	J6 axis	320kg·m <sup>2</sup> 3265kgf·cm·s <sup>2</sup>	
Drive method		Electric servo drive by AC servo motor	
Repeatability		±0.3mm	±0.5mm
Mass Note 3)		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 <sup>2</sup> (0.5G) or less	

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

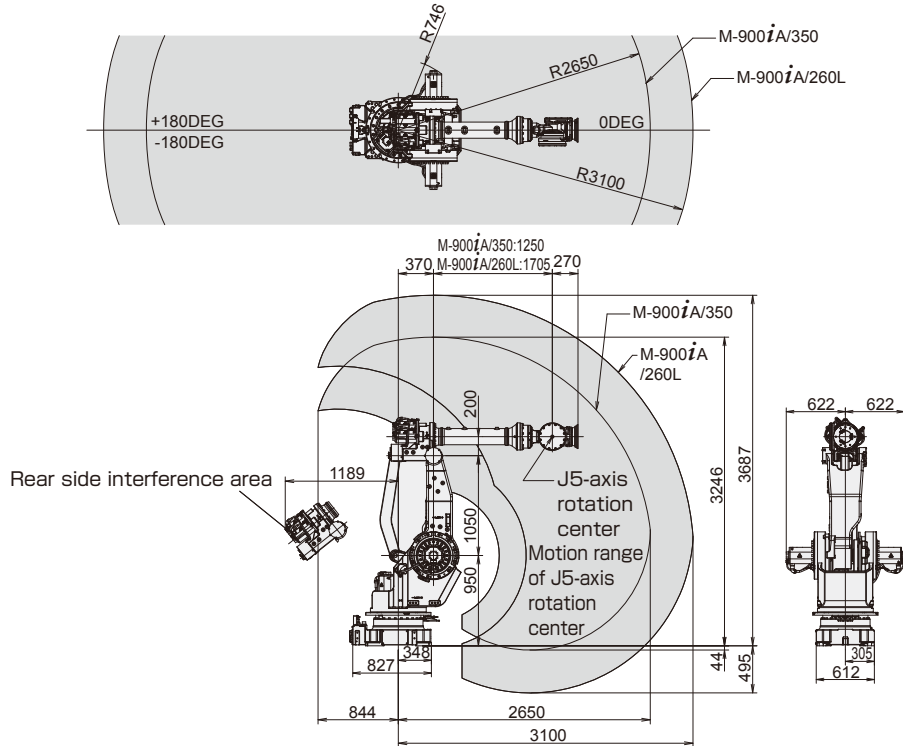
Note 2) In case that 700kg option is ordered

Note 3) Without controller

Note 4) When the reach is between 3136mm and 3350mm, CG of the workpiece should be within 30 degrees from the wrist downward direction.

When the reach is over 3350mm, CG of the workpiece should be downward from the wrist.

# Operating space (M-900iA/350, /260L)



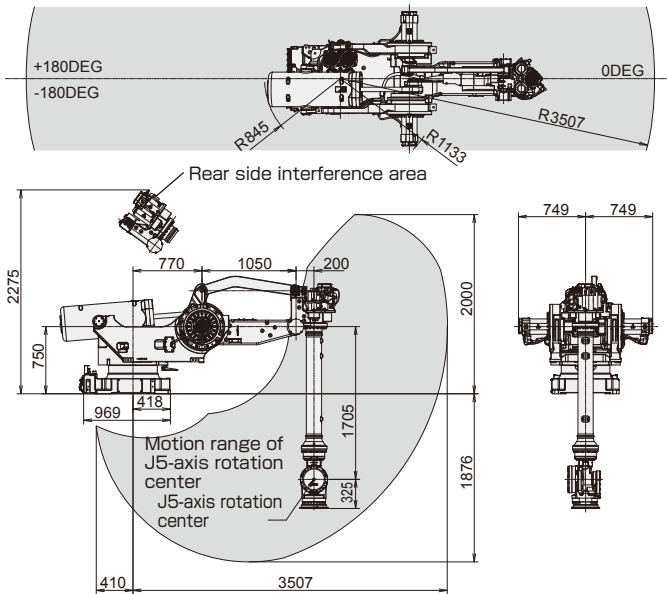
## Specifications

Item		Specifications	
		M-900iA/350	M-900iA/260L
Type		Articulated Type	
Controlled axes		6 axes (J1, J2, J3, J4, J5, J6)	
Reach		2650mm	3100mm
Installation		Floor, Upside-down (Angle mount)	
Motion range (Maximum speed) Note 1)	J1 axis rotation	360° (100° /sec) 6.28rad (1.75rad/sec)	360° (100° /sec) 6.28rad (1.75rad/sec)
	J2 axis rotation	150° (95° /sec) 2.62rad (1.66rad/sec)	150° (105° /sec) 2.62rad (1.83rad/sec)
	J3 axis rotation	223.4° (95° /sec) 3.90rad (1.66rad/sec)	211.3° (95° /sec) 3.69rad (1.66rad/sec)
	J4 axis wrist rotation	720° (105° /sec) 12.57rad (1.83rad/sec)	720° (120° /sec) 12.57rad (2.09rad/sec)
	J5 axis wrist swing	250° (105° /sec) 4.36rad (1.83rad/sec)	250° (120° /sec) 4.36rad (2.09rad/sec)
	J6 axis wrist rotation	720° (170° /sec) 12.57rad (2.97rad/sec)	720° (200° /sec) 12.57rad (3.49rad/sec)
	Max. load capacity at wrist		350kg
Max. load capacity on J3 arm		25kg	
Allowable load moment at wrist	J4 axis	1960N·m 200kgf·m	1666N·m 170kgf·m
	J5 axis	1960N·m 200kgf·m	1666N·m 170kgf·m
	J6 axis	891.8N·m 91kgf·m	715.4N·m 73kgf·m
Allowable load inertia at wrist	J4 axis	235.2kg·m <sup>2</sup> 2400kgf·cm·s <sup>2</sup>	188.2kg·m <sup>2</sup> 1920kgf·cm·s <sup>2</sup>
	J5 axis	235.2kg·m <sup>2</sup> 2400kgf·cm·s <sup>2</sup>	188.2kg·m <sup>2</sup> 1920kgf·cm·s <sup>2</sup>
	J6 axis	156.8kg·m <sup>2</sup> 1600kgf·cm·s <sup>2</sup>	117.6kg·m <sup>2</sup> 1200kgf·cm·s <sup>2</sup>
Drive method		Electric servo drive by AC servo motor	
Repeatability		±0.3mm	
Mass Note 2)		1720kg	1800kg
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 <sup>2</sup> (0.5G) or less	

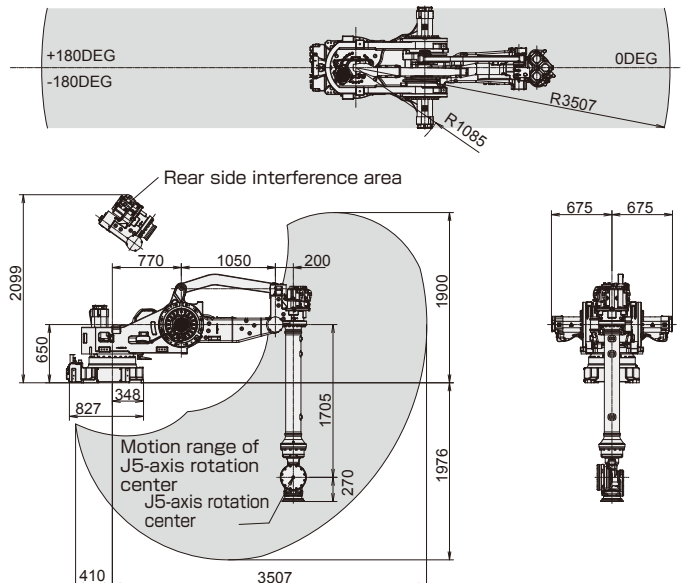
Note 1) In case of short distance motion, the axis speed may not reach the maximum value stated.  
Note 2) Without controller

# FANUC Robot M-900iA/200P, /150P

## Operating space (M-900iA/200P)



## Operating space (M-900iA/150P)



## Specifications

Items		Specifications	
		M-900iA/200P	M-900iA/150P
Type		Articulated Type	
Controlled axes		6 axes (J1, J2, J3, J4, J5, J6)	
Reach		3507mm	
Installation		Rack mount	
Motion range (Maximum speed) Note 1)	J1 axis rotation	360° (110° /sec) 6.28rad (1.92rad/sec)	360° (110° /sec) 6.28rad (1.92rad/sec)
	J2 axis rotation	180° (95° /sec) 3.14rad (1.66rad/sec)	180° (95° /sec) 3.14rad (1.66rad/sec)
	J3 axis rotation	180° (95° /sec) 3.14rad (1.66rad/sec)	180° (95° /sec) 3.14rad (1.66rad/sec)
	J4 axis wrist rotation	720° (95° /sec) 12.57rad (1.66rad/sec)	720° (120° /sec) 12.57rad (2.09rad/sec)
	J5 axis wrist swing	230° (95° /sec) 4.01rad (1.66rad/sec)	250° (120° /sec) 4.36rad (2.09rad/sec)
	J6 axis wrist rotation	720° (165° /sec) 12.57rad (2.88rad/sec)	720° (200° /sec) 12.57rad (3.49rad/sec)
	Max. load capacity at wrist	200kg (A)	(A)+(B) ≤ 200
Max. load capacity on J3 arm	25kg (B)		25kg
Allowable load moment at wrist	J4 axis	2200N·m 225kgf·m	1666N·m 170kgf·m
	J5 axis	2200N·m 225kgf·m	1666N·m 170kgf·m
	J6 axis	715N·m 73kgf·m	715.4N·m 73kgf·m
Allowable load inertia at wrist	J4 axis	431.2kg·m <sup>2</sup> 4400kgf·cm·s <sup>2</sup>	313.6kg·m <sup>2</sup> 3200kgf·cm·s <sup>2</sup>
	J5 axis	431.2kg·m <sup>2</sup> 4400kgf·cm·s <sup>2</sup>	313.6kg·m <sup>2</sup> 3200kgf·cm·s <sup>2</sup>
	J6 axis	392kg·m <sup>2</sup> 4000kgf·cm·s <sup>2</sup>	225.4kg·m <sup>2</sup> 2300kgf·cm·s <sup>2</sup>
Drive method		Electric servo drive by AC servo motor	
Repeatability		± 0.3mm	
Mass Note 2)		2670kg	1860kg
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 <sup>2</sup> (0.5G) or less	

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

Note 2) Without controller

# FANUC CORPORATION

•Headquarters Oshino-mura, Yamanashi 401-0597, Japan  
Phone: 81-555-84-5555 Fax: 81-555-84-5512 <http://www.fanuc.co.jp>

•Overseas Affiliated Companies  
FANUC America Corporation  
FANUC Europe Corporation, S.A.  
SHANGHAI-FANUC Robotics CO., LTD.  
KOREA FANUC CORPORATION  
TAIWAN FANUC FA Corporation  
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FANUC SINGAPORE PTE. LTD.  
FANUC THAI LIMITED  
FANUC MECHATRONICS (MALAYSIA) SDN. BHD.

3900 West Hamlin Road, Rochester Hills, MI 48309-3253, U.S.A.  
Zone Industrielle, L-6468 Echternach, Grand-Duché de Luxembourg  
No. 1500 Fuliian Road, Baoshan Area, Shanghai, China  
101, Wanam-ro(st), Seongsan-gu, Changwon-si, Gyeongsangnam-do, 641-290 Republic of Korea  
No.10, 16th Road, Taichung Industrial Park, Taichung, Taiwan  
41-A, Electronics City, Bangalore, 560 100, India  
No.1 Teban Gardens Crescent, Singapore 608919, Singapore  
1301 Pattanakarn Road, Kwaeng Suanluang, Khet Suanluang, Bangkok 10250 Thailand  
No.32, Jalan Pengacara U1/48, Temasya Industrial Park, Section U1, Glenmarie, 40150 Shah Alam, Selangor Darul Ehsan, Malaysia  
JL. Boulevard Bukit Gading Raya Blok R, Jakarta 14240 Indonesia  
10 Healey Circuit, Huntingwood, NSW 2148, Australia  
17 Loper Ave. Aeroport Industrial Ests. Spartan Ext.2 P.O.Box 219, Isando 1600, Republic of South Africa

Phone: 1-248-377-7000 Fax: 1-248-377-7477  
Phone: 352-727777-1 Fax: 352-727777-403  
Phone: 86-21-5032-7700 Fax: 86-21-5032-7711  
Phone: 82-55-278-1200 Fax: 82-55-284-9826  
Phone: 886-4-2359-0522 Fax: 886-4-2359-0771  
Phone: 91-80-2852-0057 Fax: 91-80-2852-0051  
Phone: 65-6567-8566 Fax: 65-6566-5937  
Phone: 66-2-714-6111 Fax: 66-2-714-6120  
Phone: 60-3-7628-0110 Fax: 60-3-7628-0220  
Phone: 62-21-4584-7285 Fax: 62-21-4584-7288  
Phone: 61-2-8822-4600 Fax: 61-2-8822-4666  
Phone: 27-11-392-3610 Fax: 27-11-392-3615

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RM-900iA(E)-07, 2014.4, Printed in Japan