FANUC Robot M-101A FANUC Robot M-201A



FEATURES

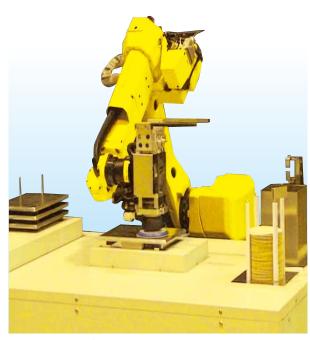
FANUC Robot M-10iA / M-20iA is a small payload handling robot whose payload is 7 to 35kg.

- Two wrist types are available. Hollow wrist realizes the user cable easy wiring. High inertia wrist is appropriate for large work piece handling.
- Standard arm, short arm and long arm are available for variable working area.
- High rigidity arm and advanced servo technology enable to increase acceleration performance. This decreases cycle time and realizes high productivity.
- ullet Various intelligent functions with iRVision (integrated vision) and force sensor are available.

Application Examples



Small parts bin picking

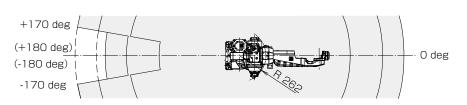


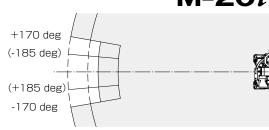
Case parts polishing

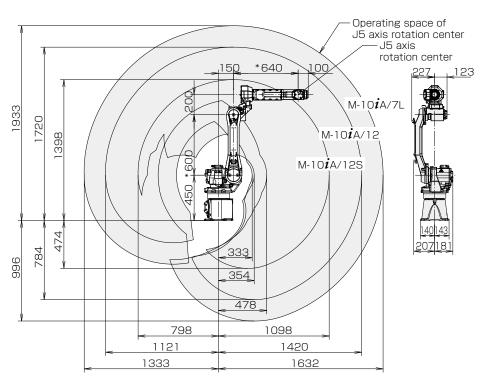
Operating space

\dot{M} -10 \dot{i} A/12S, /12, /7L

M-20i







*J2 arm length

M-10*i*A/12S :400mm M-10*i*A/12 :600mm M-10**i**A/7L :600mm *J3 arm length

M-10*i*A/12S :510mm M-10**i**A/12 :640mm M-10*i*A/7L :860mm *J3 arm length M-20**i**A :835mm

M-20*i*A/12L :1040m

Specifications

Specification	Specifications						
Model		M-10 i A/12S	M-10 i A/12	M-10 i A/7L			
Controlled axes							
Reach		1098mm	1420mm	1632mm			
Installation							
Motion range (Maximum speed) (Note 1, 2)	J1 axis rotation	340°/360°(Option) (260°/s) 5.93 rad/6.28 rad (Option) (4.54 rad/s)	340/360°(Option) (230/s) 5.93 rad/6.28 rad (Option) (4.01 rad/s)				
	J2 axis rotation	250°(280°/s) 4.36 rad (4.89 rad/s)	250°(225°/s) 4.36 rad (3.93 rad/s)				
	J3 axis rotation	340°(315°/s) 5.93 rad (5.50 rad/s)	445°(230°/s) 7.76 rad (4.01 rad/s)	447°(230°/s) 7.80 rad (4.01 rad/s)			
	J4 axis wrist rotation	380°(430°/s) 6.63 rad (7.50 rad/s)					
	J5 axis wrist swing	380°(430°/s) 6.63 rad (7.50 rad/s)					
	J6 axis wrist rotation	720°(630°/s) 12.57 rad (11.0 rad/s)					
Max load capacity at wrist		12 kg		7 kg			
Allowable load moment at wrist	J4 axis	22.0 N·m		15.7 N·m			
	J5 axis	22.0 N·m		10.1 N·m			
	J6 axis	9.8 N·m		5.9 N·m			
Allowable load inertia at wrist	J4 axis	0.65	0.63 kg·m²				
	J5 axis	0.65 kg·m²		0.38 kg·m²			
J6 axis		0.17 kg·m²		0.061 kg·m²			
Repeatability Note 3)		± 0.0					
Mass Note 4)		130 kg					
Installation environment		Ambient temperature : 0 to 45°C Ambient humidity : Normally 75%RH or less(No dew nor frost allowed), Short term 95%RH or less(within one mont Vibration acceleration : 4.9m/s²(0.5G)or less					

Note 1) In case of angle mounting, J1 and J2 axis motion range are restricted.

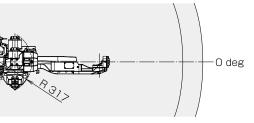
Note 2) In case of short distance motion, the axis speed may not reach the maximum value stated.

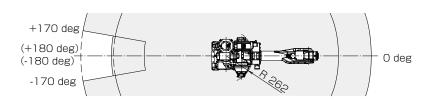
Note 3) Compliant with ISO 9283.

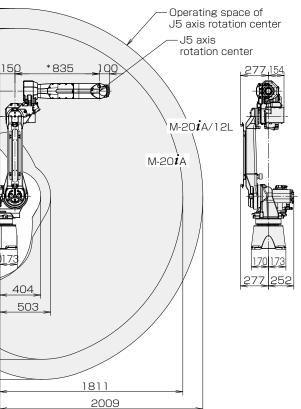
Note 4) Without controller

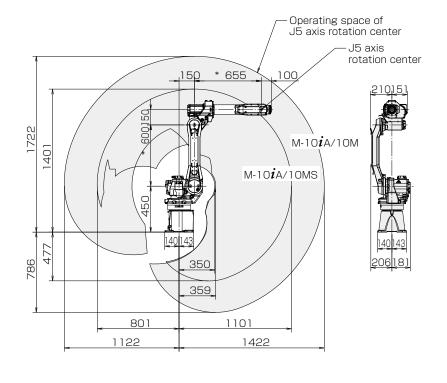
A, /12L

M-10iA/10M, /10MS







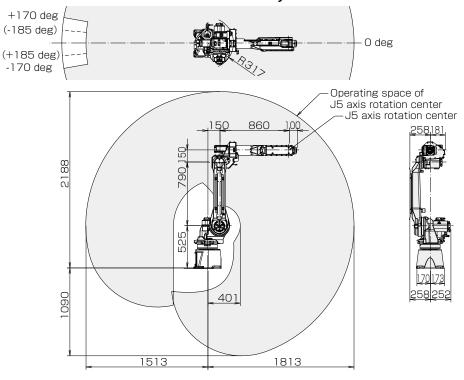


*J2 arm length *J3 arm length

M-20 i A	M-20 i A/12L	M-10 i A/10M	M-10 i A/10MS	
6 axes (J1, J2, J3, J4, J5, J6)				
1811mm	2009mm	1422mm	1101mm	
Floor, Upside-down, Angle mount				
340%370°(Option)	340°/370°(Option)	340°/360°(Option)	340%360°(Option)	
(195%s)	(200°/s)	(225%s)	(290%s)	
5.93 rad/6.45 rad (Option)	5.93 rad/6.45 rad (Option)	5.93 rad/6.28 rad (Option)	5.93 rad/6.28 rad (Option)	
(3.40 rad/s)	(3.49 rad/s)	(3.93 rad/s)	(5.06 rad/s)	
260°(175%s)	250°(205°/s)	250°(280°/s)	
4.54 rad ((3.05 rad/s)	4.36 rad (3.58 rad/s)	4.36 rad (4.89 rad/s)	
458°(180°/s)	460°(190°/s)	445°(225°/s)	341°(315°/s)	
8.00 rad (3.14 rad/s)	8.04 rad (3.32 rad/s)	7.76 rad (3.93 rad/s)	5.95 rad (5.50 rad/s)	
400°(360°/s)	400°(430°/s)	380°(4	380°(420°/s)	
6.98 rad (6.28 rad/s) 6.98 rad (7.50 rad/s)		6.63 rad (7.33 rad/s)		
360°(360°/s)	360°(430°/s)	280°(420°/s)		
6.28 rad (6.28 rad/s) 6.28 rad (7.50 rad/s)		6.63 rad (7.50 rad/s)		
900°(550°/s)	900°(630°/s)	720°(700°/s)	720°(720°/s)	
15.71 rad (9.60 rad/s)	15.71 rad (11.0 rad/s)	12.57 rad (12.22 rad/s)	12.57 rad (12.57 rad/s)	
20 kg 12 kg		10 kg		
44.0 N·m	22.0 N·m	26.0 N·m		
44.0 N·m	22.0 N·m	26.0 N·m		
22.0 N·m 9.8 N·m		11.0 N·m		
1.04 kg·m² 0.65 kg·m²		0.90 kg·m²		
1.04 kg·m² 0.65 kg·m²		0.90 kg·m²		
0.28 kg·m²	0.17 kg·m ²	0.30 kg·m²		
3 mm				
25	50 kg	130 kg		

Operating space

M-201A/20M, /35M



Specifications

Mo	del	M-20 i A/20M	M-20 i A/35M	
Controlled axes		6 axes (J1, J2, J3, J4, J5, J6)		
Reach		1813mm		
Installation		Floor, Upside-down, Angle mount		
		340%370°(Option)	340°/370°(Option)	
	J1 axis rotation	(195%s)	(180%s)	
		5.93 rad/6.45 rad (Option)	5.93 rad/6.45 rad(Option)	
		(3.40 rad/s)	(3.14 rad/s)	
	J2 axis rotation	260°(175%s)	260°(180%s)	
Motion range	JZ axis iutatiuii	4.54 rad (3.05 rad/s)	4.54 rad (3.14 rad/s)	
(Maximum speed)	J3 axis rotation	458°(180%s)	458°(200%s)	
(Note 1. 2)	JS axis lutation	8.00 rad (3.14 rad/s)	8.00 rad (3.49 rad/s)	
(NOTE 1, Z)	J4 axis	400°(405%s)	400°(350%s)	
	wrist rotation	6.98 rad (7.07 rad/s)	6.98 rad (6.11 rad/s)	
	J5 axis	280°(405%s)	280°(350%s)	
	wrist swing	4.89 rad (7.07 rad/s)	4.89 rad (6.11 rad/s)	
	J6 axis	900°(615%s)	900°(400%s)	
	wrist rotation	15.71 rad (10.73 rad/s)	15.71 rad (6.98 rad/s)	
Max load capacity	at wrist	20 kg	35 kg	
Allowable load	J4 axis	45.1 N·m	110 N·m	
moment at wrist	J5 axis	45.1 N·m	110 N·m	
moment at wist	J6 axis	30.0 N·m	60 N·m	
Allowable load	J4 axis	2.01 kg·m²	4.00 kg·m²	
inertia at wrist	J5 axis	2.01 kg·m²	4.00 kg·m²	
illertia at Wilst	J6 axis	1.01 kg·m²	1.50 kg·m²	
Repeatability Note 3)		± 0.03 mm		
Mass Note 4)		250 kg	252 kg	
Installation environment		Ambient temperature: 0 to 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/s²(0.5G)or less		

In case of angle mounting, J1 and J2 axis motion range are restricted.

Note 2) in case of short distance motion, the axis speed may not reach the maximum value stated. Note 3) Compliant with ISO 9283.

Note 4) 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 ● Overseas Affiliated Companies FANUC America Corporation FANUC Europe Corporation, S.A. SHANGHAI-FANUC Robotics CO., LTD. KOREA FANUC CORPORATION TAIWAN FANUC CORPORATION FANUC INDIA PRIVATE LIMITED FANUC SINGAPORE PTE. LTD. FANUC THAI LIMITED FANUC SINGAPORE PTE. LTD. FANUC THAI LIMITED FANUC MECHATRONICS (MALAYSIA) SDN. BHD.

PT. FANUC INDONESIA FANUC OCEANIA PTY. LIMITED FANUC SOUTH AFRICA (PROPRIETARY) LIMITED

3900 West Hamlin Road, Rochester Hills, MI 48309-3253, U.S.A. Zone Industrielle, L-6468 Echternach, Grand-Duché de Luxembourg No. 1500 Fulian Road, Baoshan Area, Shanghai, China 101, Wanam-ro(st), Seongsangu, Changwon-si, Gyeongsangnam-do, 642-290 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 Pattanakam 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.0.Box 219, Isando 1600, Republic of South Africa

Phone: 1-248-377-7000 Phone: 352-727777-1 Phone: 86-21-5032-7700 Phone: 82-55-278-1200 Phone: 886-4-2359-0522 Phone: 91-80-2852-0057 Phone: 65-6567-8566

Phone: 66-2-714-6111 Phone: 60-3-7628-0110

Phone: 62-21-4584-7285 Phone: 61-2-8822-4600 Phone: 27-11-392-3610

Fax: 1-855-774-7051 Fax: 352-72777-403 Fax: 86-21-5032-7711 Fax: 86-55-284-9826 Fax: 886-4-2359-0771 Fax: 91-80-2852-0051 Fax: 65-6566-5937 Fax: 66-2-714-6120

Fax: 60-3-7628-0220 Fax: 62-21-4584-7288 Fax: 61-2-8822-4666 Fax: 27-11-392-3615

All specifications are subject to change without notice.

 No part of this catalog may be account.

All specifications are subject to change without notice.
No part of this catalog may be reproduced in any form.
The products in this catalog are controlled based on Japan's "Foreign Exchange and Foreign Trade Law". The export from Japan may be subject to an export license by the government of Japan. Further, re-export to another country may be subject to the license of the government of the country from where the product is re-exported. Furthermore, the product may also be controlled by re-export regulations of the United States government. Should you wish to export or re-export these products, please contact FANUC for advice.