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



Application system



Small parts bin picking

Features

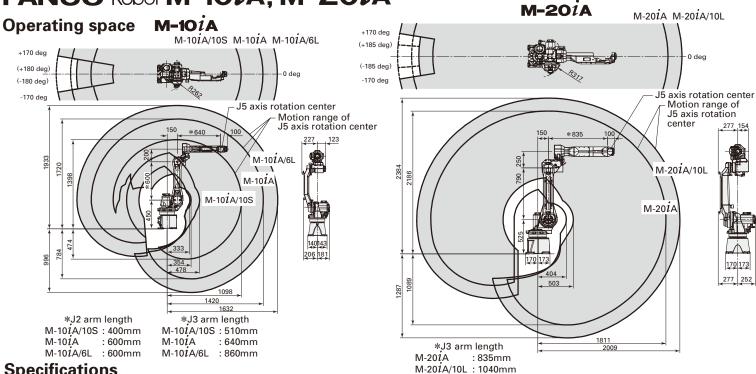
The M-10 \dot{i} A/ M-20 \dot{i} A is a light payload handling robot with a cable-integrated arm.

- M-10*i*A standard type, short arm type (10S), long arm type (6L) and M-20*i*A standard type, long arm type (10L) are available for various application adaptation.
- A highly rigid arm and advanced servo technology enable increased acceleration performance. This decreases cycle time; leading to higher productivity.
- A unique drive mechanism in the wrist axis allows for a hollow, slim arm with cable integration.
- Integrated cable routing and easy maintenance by cantilevered forearm provides excellent cable management. A conduit with embedded hand cables is provided as an option.
- Thanks to stable hand cable management, off-line teaching function by ROBOGUIDE (option) reduces teaching cost.
- Latest intelligent functions with iRVision (integrated vision) and force sensor are available.



Plastic part material removal

FANUC Robot M-101A, M-201A



Specificatio	1113		.,	1-201A/ TOL . 1040111111		
ltem		Specifications				
		M-10 <i>i</i> A/10S	M-10 <i>i</i> A	M-10 <i>i</i> A/6L	M-20 <i>i</i> A	M-20 <i>i</i> A/10L
Туре			6 axe	s (J1、J2、J3、J4、J5、	J6)	•
Reach		1,098mm	1,420mm	1,632mm	1,811mm	2,009mm
Installation		Floor, Upside-down, Angle mount				
Motion range (Maximum speed) (Note 1, 2)	J1 axis rotation	340°/360°	340°/360°		340°/370°	
		(option) (220°/s)	(option) (210°/s)		(option) (195°/s)	
		5.93 rad/6.28 rad	5.93 rad/6.28 rad		5.93 rad/6.45 rad	
		(option) (3.84 rad/s)	(option) (3.67 rad/s)		(option) (3.40 rad/s)	
	J2 axis rotation	250° (230°/s)	250° (190°/s)		260° (175°/s)	
		4.36 rad (4.01 rad/s)	4.36 rad (3.32 rad/s)		4.54 rad (3.05 rad/s)	
	J3 axis rotation	340° (270°/s)	445° (210°/s)	447° (210°/s)	458° (180°/s)	460° (180°/s)
		5.93 rad (4.71 rad/s)	7.76 rad (3.67 rad/s)	7.80 rad (3.67 rad/s)	8.00 rad (3.14 rad/s)	8.04 rad (3.14 rad/s
	J4 axis wrist rotation	380° (410°/s)	380° (400°/s)		400° (360°/s)	400° (400°/s)
		6.63 rad (7.15 rad/s)	6.63 rad (6.98 rad/s)		6.98 rad (6.28 rad/s)	6.98 rad (6.98 rad/s
	J5 axis wrist swing	380° (410°/s)	380° (400°/s)		360° (360°/s)	360° (400°/s)
		6.63 rad (7.15 rad/s)	6.63 rad (6.98 rad/s)		6.28 rad (6.28 rad/s)	6.28 rad (6.98 rad/s
	J6 axis wrist rotation	720° (610°/s)	720° (600°/s)		900° (550°/s)	900° (600°/s)
		12.57 rad (10.65 rad/s)	12.57 rad (10.5 rad/s)		15.71 rad (9.60 rad/s)	15.71 rad (10.47 rad/
Maximum laod capacity at wrist		10 kg		6 kg	20 kg	10 kg
Allowable load	J4 axis	22.0 N⋅m		15.7 N⋅m	44.0 N⋅m	22.0 N·m
moment at wrist	J5 axis	22.0 N⋅m		10.1 N⋅m	44.0 N⋅m	22.0 N·m
moment at wrist	J6 axis	9.8 N⋅m		5.9 N⋅m	22.0 N⋅m	9.8 N⋅m
Allowable load	J4 axis	0.63 kg⋅m²		0.63 kg·m²	1.04 kg·m²	0.63 kg·m ²
inertia at wrist	J5 axis	0.63 kg⋅m²		0.38 kg·m²	1.04 kg·m²	0.63 kg·m ²
illertia at Wilst	J6 axis	0.15 kg·m²		0.061 kg·m²	0.28 kg⋅m²	0.15 kg·m²
Repeatability		± 0.05 mm		± 0.08 mm		
Mass (Note 3)) kg	135 kg 250 kg		
Installation environment		Ambient temperature : 0 \sim 45 $^{\circ}$ C				
		Amibient humidity: Normal 75%RH or less (No dew not frost allowed), Short term 95%RH or less (within one month) Vibration: 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 doesn't reach maximum one.

Note 3) Without controller



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