

## Small Payload Handling Intelligent Robot

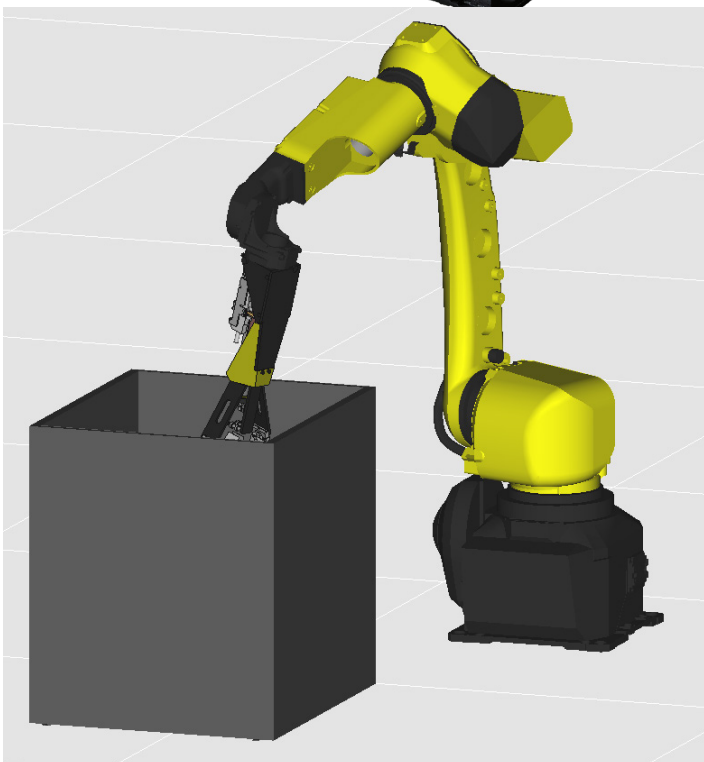
# FANUC Robot M-10iD



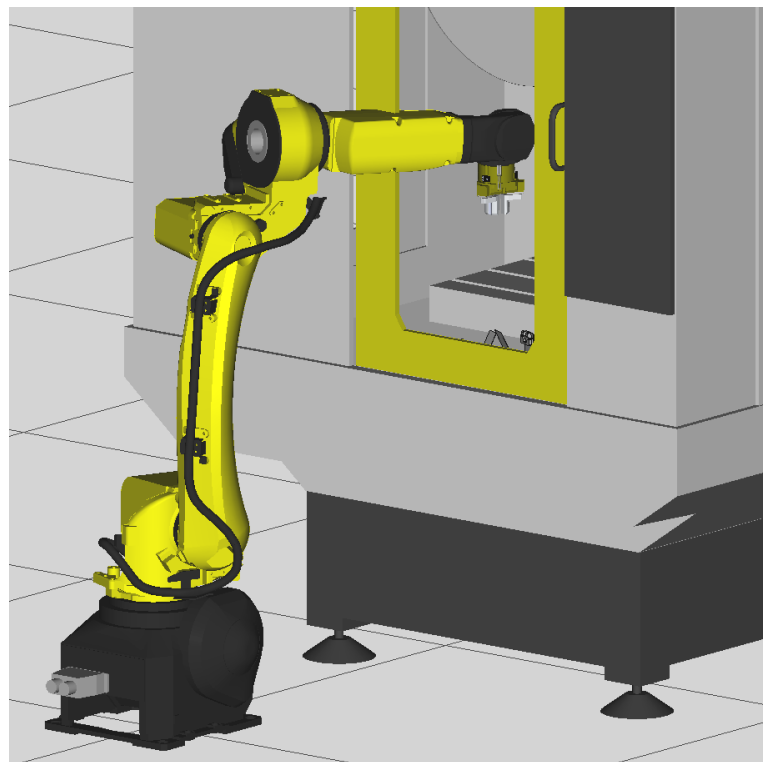
### Features

The FANUC M-10iD Robot is a small payload handling robot with an enhanced dress-out capability.

- The unique hollow gear drive mechanism allows for a slim arm without external cables getting in the way.
- User cables can be easily routed through the J1 hollow tube and then through the enlarged hollow tube from J4 to J6.
- High rigidity arm provides high-speed, repeatable robot motion, enhancing the productivity of the system.
- Offline programming with ROBOGUIDE (Option) reduces programming costs.
- Latest intelligent functions with *i*RVision (integrated vision) and force sensing are available.



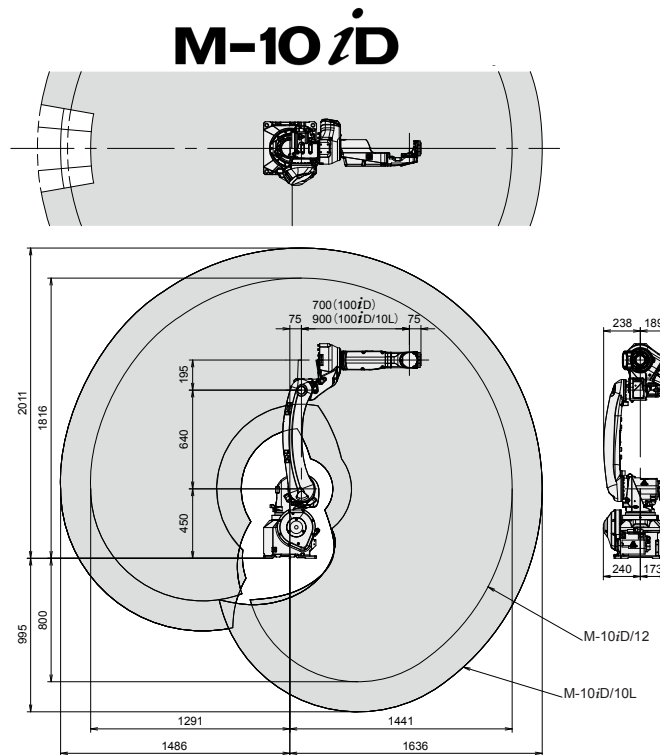
M-10iD bin picking



M-10iD load/unload

# Operating space

## M-10iD



# Specifications

Model		M-10iD/12	M-10iD/10L
Type		6axes(J1,J2,J3,J4,J5,J6)	
Reach		1441 mm	1636 mm
Installation		Floor, Upside-down, Angle mount *Floor, Upside-down for 4 brake type	
Motion range (Maximum speed) (Note 1, 2)	J1 axis rotation	340° / 370°(Option)(260°/s) 5.93 rad / 6.46 rad(Option)(4.54 rad/s)	
	J2 axis rotation	235° (240°/s) 4.10 rad (4.19 rad/s)	
	J3 axis rotation	455° (260°/s) 7.94 rad (4.54 rad/s)	
	J4 axis wrist rotation	380° (430°/s) 6.63 rad (7.50 rad/s)	
	J5 axis wrist swing	360° (450°/s) 6.28 rad (7.85 rad/s)	
	J6 axis wrist rotation	900° (720°/s) 15.71 rad (12.57 rad/s)	
Max load capacity at wrist		12 kg	10 kg
Allowable load moment at wrist	J4 axis	26.0 N·m	22.0 N·m
	J5 axis	26.0 N·m	22.0 N·m
	J6 axis	11.0 N·m	9.8 N·m
Allowable load inertia at wrist	J4 axis	0.90 kg·m <sup>2</sup>	0.65 kg·m <sup>2</sup>
	J5 axis	0.90 kg·m <sup>2</sup>	0.65 kg·m <sup>2</sup>
	J6 axis	0.30 kg·m <sup>2</sup>	0.17 kg·m <sup>2</sup>
Repeatability (Note 3)		± 0.02 mm	± 0.03 mm
Mass (Note 4)		145 kg	150 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/s <sup>2</sup> (0.5G) or less	

Note 1) In case of angle mounting, J1 and J2 axis motion range are restricted.  
 Note 2) During short distance motions, the axis speed may not reach the maximum value stated.  
 Note 3) Compliant with ISO9283.  
 Note 4) Without controller.



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