

FANUC Robot LR-10iA

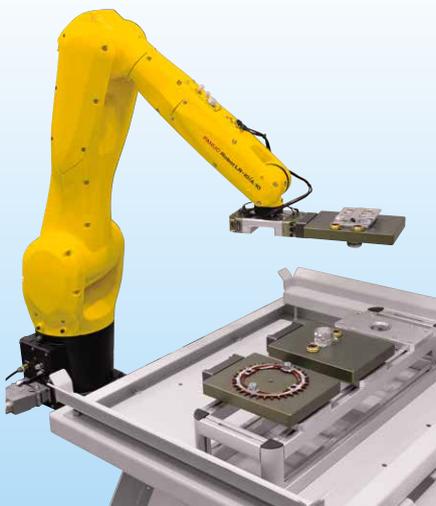


Features

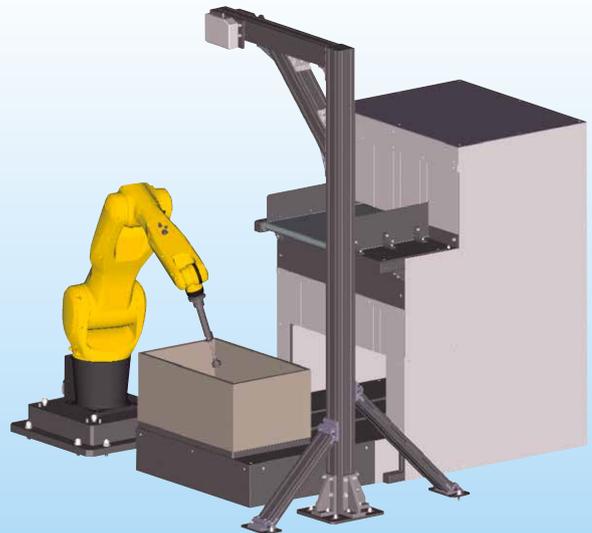
FANUC Robot LR-10iA/10 is a fully enclosed compact handling robot.

- Its light weight body easily supports various installation types such as floor, ceiling, and wall mounting.
- Its compact foot print and slim arm save installation floor space and reduce a risk of the interference to the peripheral devices.
- Cabling, piping, and the solenoid valves are integrated inside from the robot base to the upper arm, which realizes no protrusion of the cabling and the piping, and is ideal for the offline teaching.
- Dust and water proof ability of the mechanical unit is IP67 as the standard, which provides the flexibility to the various applications.
- Along with the traditional *i*Pendant, the Tablet TP, which has a large touch panel and an user-friendly intuitive interface, is available as a teaching device.
- *i*RVision (Integrated robot vision), force sensor, and various intelligent features are available.

Application Example



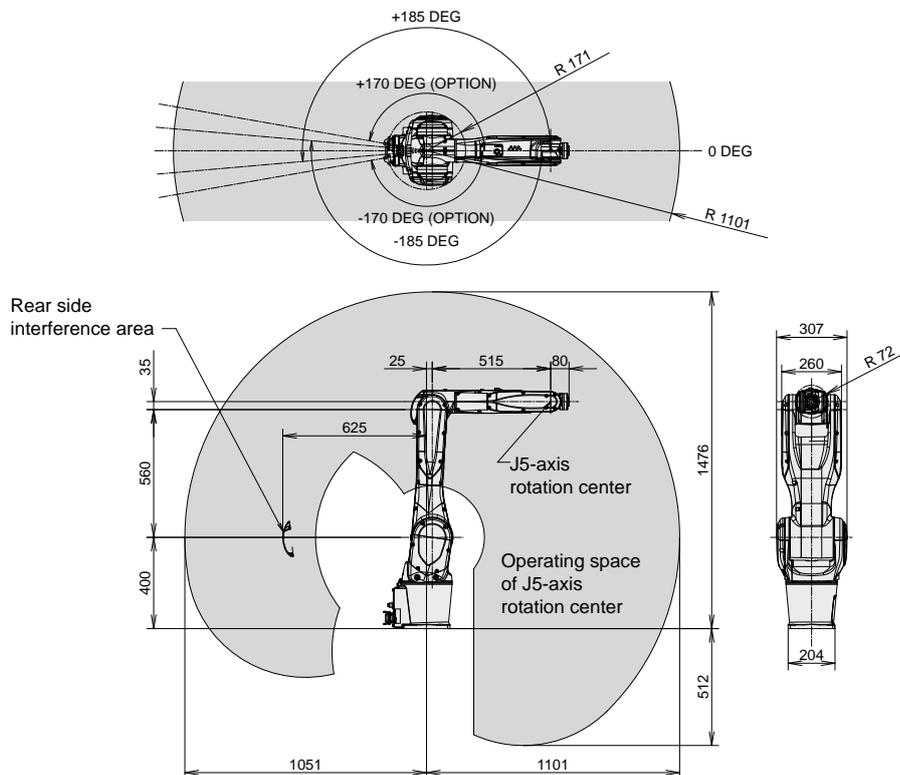
Parts Handling



Picking

Operating space

LR-10iA/10



Specifications

Model		LR-10iA/10	
Type		Articulated Type	
Controlled axes		6 axes (J1, J2, J3, J4, J5, J6)	
Reach		1101 mm	
Installation Note 1)		Floor, Ceiling, Wall	
Motion range (Maximum Speed) Note 2)	J1 axis rotation	370° (300°/s)	6.46 rad (5.24 rad/s)
	J2 axis rotation	235° (230°/s)	4.10 rad (4.01 rad/s)
	J3 axis rotation	421° (340°/s)	7.35 rad (5.93 rad/s)
	J4 axis wrist rotation	380° (500°/s)	6.63 rad (8.73 rad/s)
	J5 axis wrist swing	250° (400°/s)	4.36 rad (6.98 rad/s)
	J6 axis wrist rotation	720° (800°/s)	12.57 rad (13.96 rad/s)
Max. load capacity at wrist		10 kg	
Allowable load moment at wrist	J4 axis	21 N·m	2.14 kgf·m
	J5 axis	21 N·m	2.14 kgf·m
	J6 axis	10 N·m	1.02 kgf·m
Allowable load inertia at wrist	J4 axis	0.77 kg·m ²	7.86 kgf·cm·s ²
	J5 axis	0.77 kg·m ²	7.86 kgf·cm·s ²
	J6 axis	0.28 kg·m ²	2.86 kgf·cm·s ²
Repeatability Note 3)		± 0.02 mm	
Drive method		Electric servo drive by AC servo motor	
Mass Note 4)		46 kg	
Installation environment		Ambient temperature : 0 to 45°C Ambient humidity : Normally 75 %RH or less (No dew nor frost allowed) Short term (within one month) Max. 95 %RH or less (No dew nor frost allowed) Vibration acceleration : 4.9 m/s ² (0.5G) or less	

Note 1) Motion range may be restricted depending on payload in case of wall mounting.

Note 2) During short distance motions, the axis speed may not reach the maximum value stated.

Note 3) Compliant with ISO 9283.

Note 4) Without controller.

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