

FANUC Robot LR Mate



FEATURES

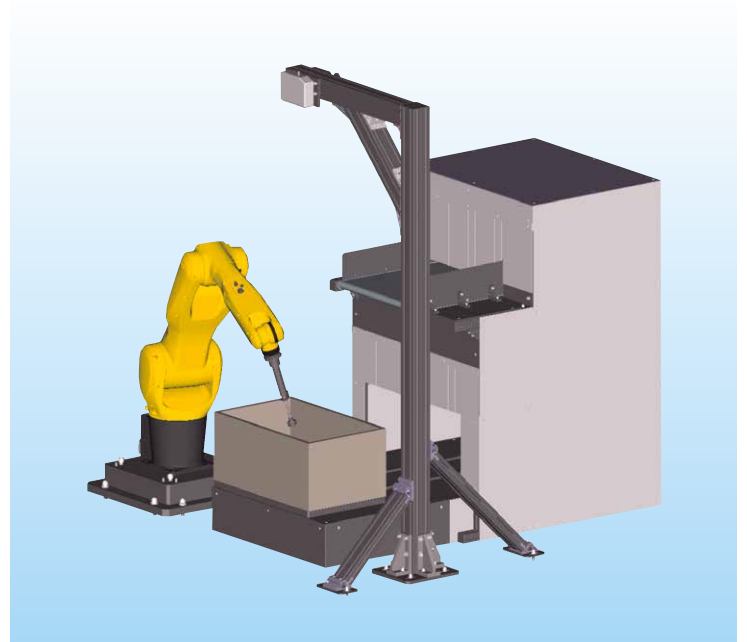
FANUC Robot LR Mate is a fully enclosed handling robot with the capacity of 4kg - 35kg.

- 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 with the peripheral devices.
- Cabling, piping, and solenoid valves are integrated inside the body from the robot base to the upper arm, which realizes no protrusion of the cabling and the piping and ideal offline teaching.
- Dust and water proof ability of the mechanical unit conforms to IP67, which provides the flexibility to the various applications.
- Tablet TP, which has a large touch panel and an user-friendly intuitive interface, and the traditional *i*Pendant are available as a teaching device.
- *i*RVision (Integrated robot vision), force sensor, and various intelligent features are available.

Application Example



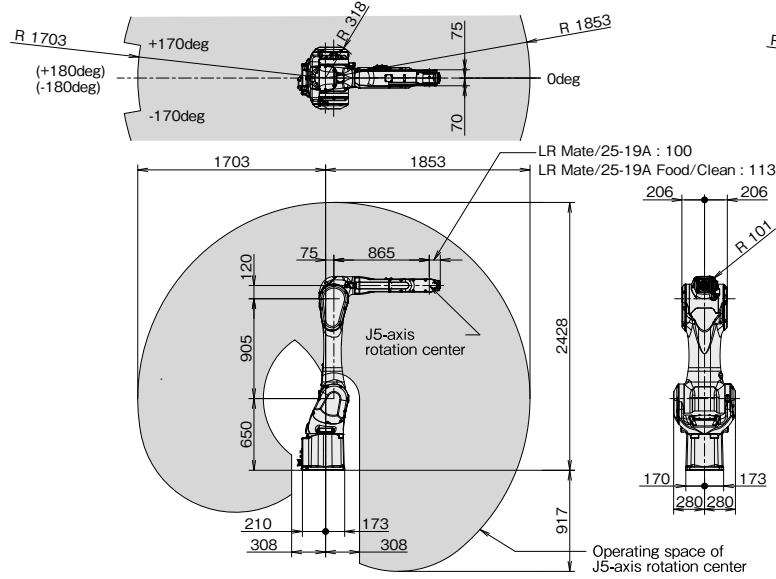
Parts Handling



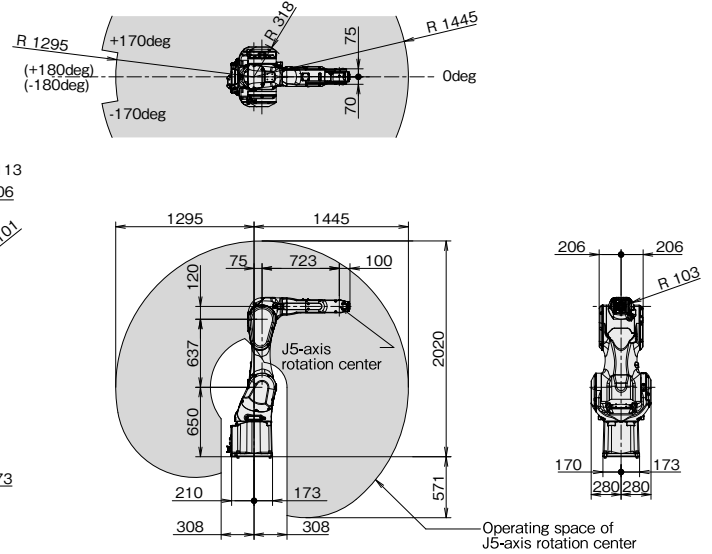
Picking

Operating space

LR Mate/25-19A, /25-19A Food/Clean



LR Mate/35-14A



Specifications

Model		LR Mate/25-19A, /25-19A Food/Clean	LR Mate/35-14A
Type		Articulated Type	
Controlled axes		6 axes (J1, J2, J3, J4, J5, J6)	
Reach		1853 mm	1445 mm
Installation		Floor, Upside-down, Angle	
Motion range (Maximum speed) (Note 1, 2)	J1 axis rotation	340°/360° (option) (205°/s) 5.93 rad / 6.28 rad (option) (3.58 rad/s)	
	J2 axis rotation	240° (205°/s) 4.19 rad (3.58 rad/s)	
	J3 axis rotation	447.8° (260°/s) 7.82 rad (4.54 rad/s)	413.7° (260°/s) 7.22 rad (4.54 rad/s)
	J4 axis wrist rotation	400° (415°/s) 6.98 rad (7.24 rad/s)	
	J5 axis wrist swing	290° (415°/s) 5.06 rad (7.24 rad/s)	260° (415°/s) 4.54 rad (7.24 rad/s)
	J6 axis wrist rotation	540° (880°/s) 9.42 rad (15.36 rad/s)	
Max. load capacity at wrist		25 kg	35 kg
Allowable load moment at wrist	J4 axis	51.0 N·m	
	J5 axis	51.0 N·m	
	J6 axis	31.0 N·m	
Allowable load inertia at wrist	J4 axis	2.20 kg·m ²	
	J5 axis	2.20 kg·m ²	
	J6 axis	1.20 kg·m ²	
Repeatability (Note 3)		± 0.02 mm	
Mass (Note 4)		210 kg	205 kg
Installation environment		Ambient temperature : 0 to 45°C Ambient humidity : Normally 75 %RH or less (No condensation allowed.) Short term (within one month) Max. 95 %RH or less (No condensation allowed.) Vibration acceleration : 4.9 m/s ² (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 ISO 9283.

Note 4) Without controller.

Note 5) White paint, antirust surface and food grade grease are applied to the clean type.

FANUC CORPORATION

●Overseas Affiliated Companies
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 PT. FANUC INDONESIA
 FANUC OCEANIA PTY. LIMITED
 FANUC SOUTH AFRICA (PROPRIETARY) LIMITED

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)3-3082-1222
 Phone: (+62)21-4584-7285
 Phone: (+61)2-8822-4600
 Phone: (+27)11-392-3610

●Headquarters 3580, Shibokusa, Oshino-mura, Minamitsuru-gun
 Yamanashi, 401-0597, JAPAN
 Phone: (+81)555-84-5555 <https://www.fanuc.co.jp/>

<https://www.fanucamerica.com/>
<https://www.fanuc.eu/>
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