

FANUC Robot LR Mate 200iD

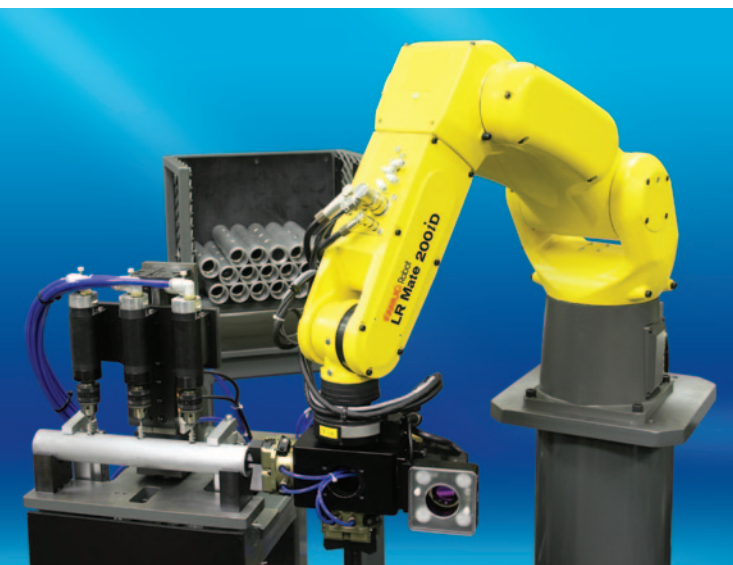
Features

The LR Mate 200iD is a compact six-axis mini robot with the approximate size and reach of a human arm.

- Slim arm minimizes interference to peripheral devices and allows operation in narrow spaces.
- Standard arm (717mm reach) and short arm (550mm reach) models are available.
- Lightest mechanical unit in its class enables easy system integration and installation flexibility with multiple mounting methods.
- The most advanced servo technology and highly rigid arm enable smooth motion without vibration in high-speed operations.
- Enhanced wrist load capacity allows for greater efficiency and the ability to handle multiple workpieces.
- Vision and force sensor cables (option), auxiliary axis cable (option), solenoid valve, air tube and I/O cable for device control are integrated into the arm for easy cable handling.
- IP69K (robot option - limited model types) provides enhanced dust and water protection in harsh environments. Available bottom cable exit (option) also protects cable from harsh environments.
- High performance R-30iB Mate controller enables reliable operation under a factory environment with dust and oil mist.
- Various intelligent features are available as an option, such as iRVision (integrated vision) and force sensing.



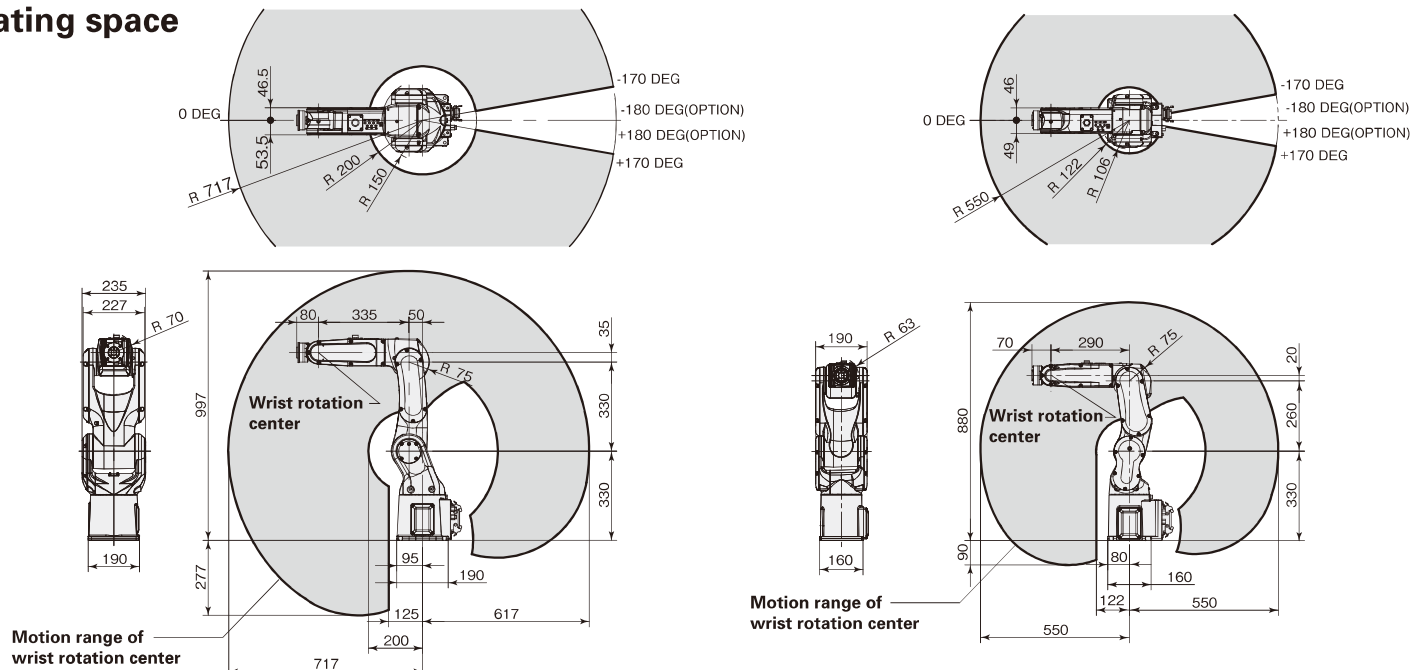
Application system



Intelligent deburring

FANUC Robot LR Mate 200iD

Operating space



Specifications

LR Mate 200iD

LR Mate 200iD/4S

Model		LR Mate 200iD	LR Mate 200iD/4S
Controlled axes		6 axes (J1, J2, J3, J4, J5, J6)	
Reach		717mm	550mm
Installation (Note 1)		Floor, Upside-down, Angle mount	
Motion range (Maximum speed)	J1 axis	340°/360° (option) (450°/s) 5.93 rad/6.28 rad (option) (7.85 rad/s)	340°/360° (option) (460°/s) 5.93 rad/6.28 rad (option) (8.03 rad/s)
	J2 axis	245° (380°/s) 4.28 rad (6.63rad/s)	230° (460°/s) 4.01 rad (8.03rad/s)
	J3 axis	420° (520°/s) 7.33 rad (9.08rad/s)	397° (520°/s) 6.93 rad (9.08rad/s)
	J4 axis	380° (550°/s) 6.63 rad (9.60 rad/s)	380° (560°/s) 6.63 rad (9.77 rad/s)
	J5 axis	250° (545°/s) 4.36 rad (9.51 rad/s)	240° (560°/s) 4.19 rad (9.77 rad/s)
	J6 axis	720° (1000°/s) 12.57 rad (17.45 rad/s)	720° (900°/s) 12.57 rad (15.71 rad/s)
Max. load capacity at wrist		7kg	4kg
Allowable load moment at wrist	J4 axis	16.6 N·m	8.86 N·m
	J5 axis	16.6 N·m	8.86 N·m
	J6 axis	9.4 N·m	4.90 N·m
Allowable load inertia at wrist	J4 axis	0.47 kg·m ²	0.20 kg·m ²
	J5 axis	0.47 kg·m ²	0.20 kg·m ²
	J6 axis	0.15 kg·m ²	0.067 kg·m ²
Repeatability		± 0.02 mm	
Mass (Note 2)		25 kg	20 kg
Installation environment		Ambient temperature : 0~45°C Ambient humidity : Normally 75%RH or less (No dew nor frost allowed), Short term 95%RH or less (within one month) Vibration : 0.5G or less	

Note 1) Angle mounting needs J1 and J2 axis motion range restriction.

Note 2) Without controller.

Note 3) Those liquids that deteriorate the sealing members, such as organic solvents, acids, alkalis, and chloric coolants, must not be used.



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