



# SIMPLIMATIC AUTOMATION

*Keep it smart. Keep it simple.*

## FANUC Robot LR Mate 200iD

### **Performance Meets Precision**

#### **Simplimatic Conveyors with FANUC Integration**

*The combination of Simplimatic Automation's electronics and semiconductor integration experience with the knowledge and expertise from FANUC provides cost-effective, state-of-the-art robotic solutions for a multitude of material handling and back-end assembly applications.*

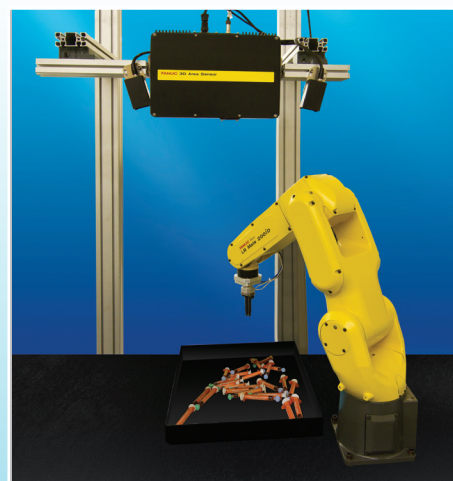


### **FANUC Robot LR Mate 200iD**

#### **Advanced Servo Technology Enables Smooth Motion and Precise Operation**

The LR Mate 200iD is a compact six-axis mini robot with the approximate size and reach of a human arm. The slim arm design minimizes interference with peripheral devices and allows operation in narrow spaces.

Versatile, the LR Mate 200iD can be equipped with a variety of intelligent features. These include iRVision (integrated vision) and force sensing; IP69K for enhanced dust and water protection in harsh environments; bottom cable exit for extra protection; vision and force sensor cables, auxiliary axis cable, solenoid valve, air tube and I/O cable for device control and easy cable handling.



### **STANDARD FEATURES**

- Lightest mechanical unit in its class
- Easy system integration and installation flexibility
- Multiple mounting methods
- Enhanced wrist load capacity for greater efficiency
- Multiple workpiece management capabilities
- High-performance R-30iB Mate controller for reliable operation in factory environments





**SIMPLIMATIC**  
AUTOMATION

*Keep it smart. Keep it simple.*

## FANUC Robot LR Mate 200iD

### SPECIFICATIONS

|                                 |         |   |
|---------------------------------|---------|---|
| Controlled Axes                 |         | 6 Axes (J1, J2, J3, J4, J5, J6)   |
| Reach                           |         | 717mm   |
| Installation (Note 1)           |         | Floor, upside-down, angle mount   |
| Motion Range (Max. Speed)       | J1 Axis | 340°/ 360° (option) (450°/s)<br>5.93 rad/6.28 rad (option) (7.85 rad/s)   |
|                                 | J2 Axis | 245° (380°/s)<br>4.28 rad (6.63 rad/s)  |
|                                 | J3 Axis | 420° (520°/s)<br>7.33 rad (9.08 rad/s)  |
|                                 | J4 Axis | 380° (550°/s)<br>6.63 rad (9.60 rad/s)  |
|                                 | J5 Axis | 250° (545°/s)<br>4.36 rad (9.51 rad/s)  |
|                                 | J6 Axis | 720° (1000°/s)<br>12.57 rad (17.45 rad/s)   |
| Max. Load Capacity at Wrist     |         | 7kg   |
| Allowable Load Moment at Wrist  | J4 Axis | 16.6 N·m  |
|                                 | J5 Axis | 16.6 N·m  |
|                                 | J6 Axis | 9.4 N·m   |
| Allowable Load Inertia at Wrist | J4 Axis | 0.47 kg·m <sup>2</sup>  |
|                                 | J5 Axis | 0.47 kg·m <sup>2</sup>  |
|                                 | J6 Axis | 0.15 kg·m <sup>2</sup>  |
| Repeatability                   |         | ± 0.02 mm   |
| Mass (Note 2)                   |         | 25 kg   |
| Installation Environment        |         | Ambient Temperature: 0~45°C<br>Ambient Humidity: Normally 75%RH or less (No dew, nor frost allowed), Short Term 95%RH or less (within one month)<br>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 seating members, such as organic solvents, acids, alkalis, and chloric coolants, must not be used.

### Corporate Office

1046 W. London Park Drive - Forest, VA 24551  
800.294.2003 - Sales@Simplimatic.com  
Simplimatic.com - Made in USA

Simplimatic Automation has been a leader in material handling systems since 1965. The company is part of the Simplimatic Engineering Holdings family of companies, which also includes Advantage Puck Technologies.