

A97L-0218-0951#70 Fanuc LR Mate 200iD J1 Axis Reducer Datasheet



Brand: Fanuc

SKU: [1033925444524](#)

Category: Power Transmission

Price: **\$2,285.99**

E-mail: sales@equipspares.com

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Product Page:

<https://www.equipspares.com/product/a97l-0218-095170-fanuc-lr-mate-200id-j1-axis-reducer>

Product Description

The A97L-0218-0951#70 is a high-precision RV (Rotary Vector) reducer engineered specifically for the J1 (base) axis of the Fanuc LR Mate 200iD industrial robot series. This critical mechanical component facilitates high-torque transmission and precise angular positioning, supporting the robot's 7kg payload capacity and 0.01mm repeatability. Designed for high-speed duty cycles, the reducer maintains structural rigidity and minimizes backlash to ensure vibration-free motion during rapid 360°/s J1 axis rotations. Its robust construction is compatible with IP67 and IP69K environmental standards, allowing for reliable operation in harsh industrial environments involving dust, oil mist, and high-pressure washdown procedures.

A97L-0218-0951#70 Specifications

Model Number: A97L-0218-0951#70

Brand: Fanuc

Product Category: Robot Axis Reducer / Gearbox

Compatible Robot Series: LR Mate 200iD (Standard, 4S, 7C, 7H, 7L, 7LC)

Robot Axis Application: J1 (Axis 1 / Base Axis)

Reducer Type: RV (Rotary Vector) Reducer

Payload Support: Up to 7kg

Repeatability Support: 0.01mm to 0.018mm

Maximum Axis Speed: 360°/s (J1 Axis)

Motion Range: 340° / 360° (Model dependent)

Environmental Protection: IP67 (Standard), IP69K (Optional)

Operating Temperature: 0 to 45°C

Installation Method: Floor, Ceiling, Wall, or Angle Mounting

Material: High-grade hardened steel alloy

Country of Origin: Japan

A97L-0218-0951#70 Applications

Primary motion control for J1 axis rotation in compact 6-axis robotic arms utilized for high-speed pick and place, machine tool loading/unloading, and precision assembly. Mandatory mechanical transmission for LR Mate 200iD units operating in narrow-space electronics manufacturing and food-grade washdown environments.

Supplemental Images

