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|  | <b>FANUC Robotics SYSTEM R-J3 Controller S-430i<br/>Series Mechanical Unit Maintenance Manual<br/>MARM3S43009801E REV. B</b><br><br><b>B-80935EN/02</b> |
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### 3.1 REPLACING GREASE OF THE DRIVE MECHANISM

Replace the wrist grease of the reducers of J1, J2, and J3 axes, and the J4-axis gear box, every three years or 20,000 hours by using the following procedures.

Table 3.1 Grease for 3-year periodical replatement

| Supply position  | Grease name  | Quantity        |
|------------------|--|-----------------|
| J1-axis reducer  | <b>Kyodo yushi<br/>Moly white Re no.00<br/>(Spec.: A98L-0040-0119)</b> | 4100 cc (3600g) |
| J2-axis reducer  |  | 1650 cc (1450g) |
| J3-axis reducer  |  | 1600 cc (1400g) |
| J4-axis gear box |  | 2000 cc (1800g) |
| Wrist 1          |  | 4000 cc (3500g) |
| Wrist 2          |  | 400 cc (350g)   |

1) Replacing procedure of grease to the reducer and the gear box

- 1 Turn off the power.
- 2 Remove the grease outlet plug or seal bolt. Also remove the grease nipple for J1-axis.
- 3 Apply new grease from the grease inlet until it comes out from the grease outlet.
- 4 Remount the plug or seal bolt at the grease outlet. (For mounting the seal bolt, coil a new seal tape.)

#### NOTE

If greasing is performed incorrectly, the internal pressure of the grease bath may suddenly increase, possibly causing damage to the seal, which would in turn lead to grease leakage and abnormal operation. When performing greasing, therefore, observe the following cautions.

- 1 Before starting to grease, open the grease outlet (remove the plug or bolt from the grease outlet).
- 2 Supply grease slowly without applying excessive force, using a manual pump.
- 3 Whenever possible, avoid using a compressed-air pump, powered by the factory air supply. If the use of a compressed air pump is unavoidable, restrict the maximum greasing rate to 15 cc/s and the air pressure to 75 kgf/cm<sup>2</sup>.

# Fanuc Robotics Lubrication Manual

**S Nieto**



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