

## THK Original Grease

# L500 Grease

- Base oil: refined mineral oil
- Consistency enhancer: lithium complex-based



L500 grease uses refined mineral oil as its base and lithium complex-based grease as its consistency enhancer, while also featuring special additives. It features excellent extreme pressure resistance and pumpability as well as a long service life.

Note: This product cannot be used in Europe.

### [Features]

#### (1) Extreme pressure resistance

The action of the special additives gives it excellent extreme pressure resistance.

#### (2) Long service life

It provides longer lasting lubrication than general high-load grease, helping reduce the amount of time spent on maintenance.

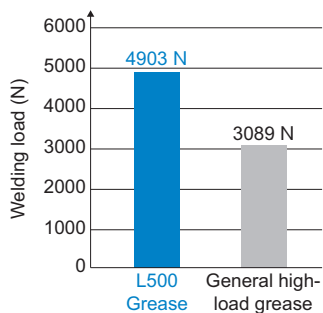
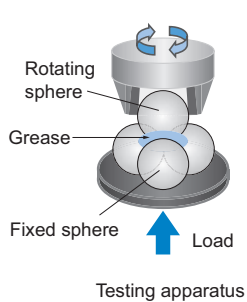
#### (3) Pumpability

It boasts excellent pumpability, allowing it to be used with automatic lubricating systems.

### [Representative Physical Properties]

| Item                                                    |            | Representative value  | Test method   |
|---------------------------------------------------------|------------|-----------------------|---------------|
| Consistency enhancer                                    |            | Lithium complex-based |               |
| Base oil                                                |            | Refined mineral oil   |               |
| Base oil kinematic viscosity: mm <sup>2</sup> /s (40°C) |            | 120                   | JIS K 2220 23 |
| Worked penetration (25°C, 60 W)                         |            | 327                   | JIS K 2220 7  |
| Mixing stability (100,000 W)                            |            | 365                   | JIS K 2220 15 |
| Dropping point: °C                                      |            | 250                   | JIS K 2220 8  |
| Evaporation amount: mass% (99°C, 22 h)                  |            | 0.4                   | JIS K 2220 10 |
| Oil separation rate: mass% (100°C, 24 h)                |            | 2.5                   | JIS K 2220 11 |
| Copper plate corrosion (B method, 100°C, 24 h)          |            | Accepted              | JIS K 2220 9  |
| Low-temperature torque: mN·m (−20°C)                    | Starting   | 110                   | JIS K 2220 18 |
|                                                         | Rotational | 50                    |               |
| 4-ball testing (welding load): N                        |            | 4903                  | ASTM D2596    |
| Service temperature range: °C                           |            | −20 to 175            |               |
| Color                                                   |            | Yellow                |               |

### [Extreme Pressure Resistance]



### [Long Service Life]

#### ● Lubrication service life measured via ball screw

Test conditions

| Item          | Description                                   |
|---------------|-----------------------------------------------|
| Tested model  | HBN3210-5RR                                   |
| Applied load  | 31.9 kN                                       |
| Maximum rpm   | 1500 min <sup>-1</sup>                        |
| Stroke        | 300 mm                                        |
| Oiling amount | 35 cm <sup>3</sup> (initial lubrication only) |

