

SKF SYSTEM 24 - TLSD series

Electro-mechanical single point automatic lubricators









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SKFTLSD series

The SKFTLSD series is the first choice when a simple and reliable automatic lubricator is required under variable temperatures, or when the application conditions (such as vibration, limited space or hazardous environments) require a remote mounting.

- Filled with SKF Lubricants especially developed for bearing applications
- Maximum discharge pressure of 5 bar over the whole dispensing period
- Transparent reservoir allows visual inspection
- Cartridge sets include battery pack
- Suitable for both direct and remote installation
- Complete sets are supplied ready to use, including the drive unit, battery pack, filled lubricant cartridge and matching support plate.

Typical applications

- Critical applications where extreme reliability and additional monitoring is required
- Applications in restrictive and hazardous locations
- Applications requiring high volumes of lubricant

SKF DialSet helps to calculate the correct dispense rate.

Multiple accessories are available for TLSD lubricators. More information can be found on page 4.

- A The unit can be programmed to dispense lubricant in 1, 2, 3, 4, 6, 8, 9, 10 and 12 month settings.
- **B** The same drive unit can be used with both cartridge versions by simply adjusting the 125/250 ml switch.
- C Traffic light LEDs are visual from all sides because of the presence of dual LEDs on the sides of the lubricator. The meaning of the lights is as follows:
 - Green light: The lubricator is properly functioning.
 - Yellow light: The lubricator is still functioning, but soon some action will be required. Yellow light serves as a pre-warning light.
 - Red light: The lubricator stopped operating.



Drive unit - TLSD 1-DS

Top part of the lubricator with electric drive and time setting wheel. Supplied with plastic cap and support plate for grease lubrication (TLSD 1-SP)



Cartridge e.g. LGWA 2/SD125

Replaceable canister filled with 125 ml or 250 ml of grease or oil. Every cartridge is supplied with battery pack.



Support plate

TLSD 1-SP is the support plate for grease lubrication. TLSD 1-SPV is the support plate with integrated non-return valve for oil lubrication.











| Ordering detai Grease | Description | Complete unit 125 | Complete unit 250 | Cartridge 125 | Cartridge 250 |
|--------------------------|--|-------------------|-------------------|-----------------------------|-----------------------------|
| LGWA 2 | High load, extreme pressure, wide temperature range | TLSD 125/WA2 | TLSD 250/WA2 | LGWA 2/SD125 | LGWA 2/SD250 |
| LGEM 2 | High viscosity bearing grease with solid lubricants | TLSD 125/EM2 | TLSD 250/EM2 | LGEM 2/SD125 | LGEM 2/SD250 |
| LGHB 2 | High load, high temperature, high viscosity | TLSD 125/HB2 | TLSD 250/HB2 | LGHB 2/SD125 | LGHB 2/SD250 |
| LGHQ 2 | High performance, high temperature | TLSD 125/HQ2 | TLSD 250/HQ2 | LGHQ 2/SD125 | LGHQ 2/SD250 |
| LGFG 2 | General purpose food grade (NSF H1) | TLSD 125/FG2 | TLSD 250/FG2 | LGFG 2/SD125 | LGFG 2/SD250 |
| LGFQ 2 | High load and wide temperature food grade (NSF H1) | - | - | LGFQ 2/SD125 | LGFQ 2/SD250 |
| Chain oils | | | | | |
| LHMT 68 | Medium temperature oil | TLSD 125/HMT68 1) | TLSD 250/HMT68 1) | LHMT 68/SD125 ²⁾ | LHMT 68/SD250 ²⁾ |
| LFFM 100 | General purpose food grade (NSF H1) | - | - | LFFM 100/SD125 2) | LFFM 100/SD250 2) |

¹⁾ Includes support plate with non-return valve.

²⁾ Support plate with non return valve (TLSD 1-SPV) can be ordered separately.



Lubricant cartridges

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Cabled drive unit TLSD 1-DK

For applications that are occasionally in operation

An alternative to the battery powered drive unit is the cabled drive unit. This unit is cable connected to enable direct power supply and signal transfer. Supplied with plastic cap and support plate for grease lubrication. Lubricant cartridges are available seperately.

- Possibility to lubricate only when the equipment is running
- Direct power supply
- Control and monitoring connection to the machine PLC
- + For detailed information, see publication PUB MP/P8 19151 EN



Trive unit TLSD 1-DK

Complete units



Technical data

| Designation | TLSD 125 and TLSD 250 | | | | | |
|---|---|--|--|--|-------------------------------|--|
| Grease capacity TLSD 125 | 125 ml (4.2 <i>US fl. oz</i>) | Protection class assembled lubricator IP 65 | | | | |
| TLSD 250 Emptying time | 250 ml (8. <i>5 US fl. oz</i>) User adjustable: 1, 2, 3, 4, 6, 8, 9, 10 and | Battery pack TLSD 1-BAT Recommended storage temperature Storage life of lubricator | | 4,5 V 2,7 Ah/Alkaline manganese 20 °C (<i>70 °F</i>) 3 years ²⁾ (2 years for food grade lubricants and oils) | | |
| Lowest grease purge TLSD 125 TLSD 250 | 12 months 0,3 ml (<i>0.01 US fl. oz</i>) per day 0,7 ml (<i>0.02 US fl. oz</i>) per day | | | | | |
| Highest grease purge TLSD 125 TLSD 250 | 4,1 ml (0.13 US fl. oz) per day 8,3 ml (0.28 US fl. oz) per day | Total weight (incl. packaging) TLSD 125 TLSD 250 | | 635 g (22.5 oz) 800 g (28.2 oz) | | |
| Ambient temperature range TLSD 1-BAT | 0 to 50 °C (30 to 120 °F) | LED state | us indicators | | TLSD 1-DS | TLSD 1-DK |
| Maximum operating pressure | 5 bar (<i>75 psi</i>) | Green | OK | | each 30 sec | each 3 sec |
| Drive mechanism | Electro mechanical | Yellow Warning, high back p | | | each 5 sec | each 1 sec |
| Connection thread | G ¹ /4 | | Warning, low battery Warning, cartridge alr | • | | - each 3 sec |
| Maximum feed line length with: grease oil | Up to 3 meters (<i>10 ft</i>) ¹⁾ Up to 5 meters (<i>16 ft</i>) | Red | Alarm, high back pre Alarm, empty cartrid Alarm, error in lubric | ge | - each 2 sec each 5 sec | each 1 sec each 3 sec each 5 sec |

 $^{(1)}$ The maximum feed line length is dependent on ambient temperature, grease type and back pressure created by the application.

²⁾ Maximum storage life is 3 years from production date, which is printed on the side of the cartridge. The cartridge and battery pack may be used at 12 month setting even if activated 3 years from production date.

| Accessories | | | | | | | |
|------------------------------------|--|----------------------------------|--|----------------------|--|--|--|
| Designation | Description | Designation | Description | Designation | Description | | |
| TLSD 1-DS | Drive unit complete with support | LAPM 2 | Y-connection | LAPB 3x10E1 | Brush 30 × 100 mm | | |
| | plate (TLSD 1-SP) | LAPN ¹ /8 | Nipple $G^{1/4} - G^{1/8}$ | LAPB 5-16E1 | Elevator brush, 5–16 mm gap | | |
| TLSD 1-SPV | Support plate with integrated non- | LAPN ¹ / ₄ | Nipple $G^{1/4} - G^{1/4}$ | LAPV 1/4 | Non-return valve G ¹ / ₄ | | |
| | return valve for oil lubrication | LAPN ¹ / ₂ | Nipple $G^{1/4} - G^{1/2}$ | LAPV ¹ /8 | Non-return valve G1/8 | | |
| LAPA 45 | Angle connection 45° | LAPN ¹ /4 UNF | Nipple G ¹ / ₄ – ¹ / ₄ UNF | LAPC 13 | Bracket | | |
| LAPA 90 | Angle connection 90° | LAPN ³ /8 | Nipple $G^{1}_{4} - G^{3}_{8}$ | LAPC 63 | Clamp | | |
| LAPE 35 | Extension 35 mm | LAPN 6 | Nipple G ¹ / ₄ – M6 | LAPT 1000 | Flexible tube, 1 000 mm long, | | |
| LAPE 50 | Extension 50 mm | LAPN 8 | Nipple G ¹ / ₄ – M8 | | 8 × 6 mm | | |
| LAPF F ¹ / ₄ | Tube connection female G ¹ / ₄ | LAPN 8x1 | Nipple $G^{1/4} - M8 \times 1$ | LAPT 5000 | Flexible tube, 5 000 mm long, | | |
| LAPF M ¹ /8 | Tube connection male G ¹ /8 | LAPN 10 | Nipple $G^{1/4}$ – M10 | | 8 × 6 mm | | |
| LAPF M ¹ / ₄ | Tube connection male G ¹ / ₄ | LAPN 10x1 | Nipple $G^{1/4} - M10 \times 1$ | LAPT 1000SW | Extra strong flexible tube, | | |
| LAPF M ¹ /4SW | Extra strong tube connection | LAPN 12 | Nipple $G^{1/4} - M12$ | | 1 000 mm long, 8 × 6 mm | | |
| | male G ¹ /4 | LAPN 12x1.5 | Nipple $G^{1/4} - M12 \times 1,5$ | LAPT 5000SW | Extra strong flexible tube, | | |
| LAPF M ³ / ₈ | Tube connection male G ³ / ₈ | LAPB 3x4E1 | Brush $30 \times 40 \text{ mm}$ | | 5 000 mm long, 8 × 6 mm | | |
| LAPG 1/4 | Grease nipple G ¹ / ₄ | LAPB 3x7E1 | Brush 30 × 60 mm | TLSD 1-BATC | Lithium battery pack for TLSD 125/250 | | |

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