

# SKF SYSTEM 24 TLSD Series



Electro-mechanical single  
point automatic lubricators





## Electro-mechanical single point automatic lubricators SKF TLSD series

The SKF TLSD 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.
- Temperature independent dispense rate.
- Maximum discharge pressure of 5 bar over the whole dispensing period.
- Dispense rate available in various settings.
- Transparent reservoir allows visual inspection.
- Red-yellow-green LEDs indicate the lubricator's status.
- Refill sets include battery pack.
- Special product version offering for cold conditions.
- Supplied with support flange for enhanced sturdiness.
- Suitable for both direct and remote installation.

### 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.



125 ml unit

250 ml unit

## Settings and display features



- A** The transparent cap ensures easy visual monitoring of the lubrication settings.
- B** The unit can be programmed to dispense lubricant in 1, 2, 3, 4, 6, 8, 9, 10 and 12 month settings.
- C** The same drive unit can be used with both cartridge versions by simply adjusting the 125/250 ml switch.

- D** 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 same action will be required. Yellow light serves as a pre-warning light.
  - **Red light:** The lubricator stopped operating.

### Technical data

#### Designation TLSD 125 and TLSD 250

<b>Grease capacity</b>	
– TLSD 125	125 ml (4.2 US fl. oz)
– TLSD 250	250 ml (8.5 US fl. oz)
<b>Emptying time</b>	User adjustable: 1, 2, 3, 4, 6, 8, 9, 10 and 12 months
<b>Lowest grease purge</b>	
– TLSD 125	0,3 ml (0.01 US fl. oz) per day
– TLSD 250	0,7 ml (0.02 US fl. oz) per day
<b>Highest grease purge</b>	
– TLSD 125	4,1 ml (0.13 US fl. oz) per day
– TLSD 250	8,3 ml (0.28 US fl. oz) per day
<b>Ambient temperature range</b>	
– TLSD 1-BAT	0 to 50 °C (30 to 120 °F)
– TLSD 1-BATC	–10 to +50 °C (15 to 120 °F)
<b>Maximum operating pressure</b>	5 bar (75 psi)
<b>Drive mechanism</b>	Electro mechanical
<b>Connection thread</b>	G <sup>1</sup> / <sub>4</sub>

#### Maximum feed line length with:

– grease	Up to 3 meters (10 ft) <sup>1)</sup>
– oil	Up to 5 meters (16 ft)

#### LED status indicators

– Green led (each 30 sec)	OK
– Yellow led (each 30 sec)	Pre warning, low battery power
– Yellow led (each 5 sec)	Pre warning, high back pressure
– Red led (each 5 sec)	Warning, stopped on error
– Red led (each 2 sec)	Warning, empty cartridge

#### Protection class assembled lubricator

IP 65

#### Battery pack

– TLSD 1-BAT	4,5 V 2,7 Ah/Alkaline manganese
– TLSD 1-BATC	4,5 V 2,9 Ah/Lithium-Iron Disulfide

#### Recommended storage temperature

20 °C (70 °F)

#### Storage life of lubricator

3 years<sup>2)</sup>  
(2 years for LGFP 2 and Oils)

#### Total weight (incl. packaging)

– TLSD 125	635 g (22.5 oz)
– TLSD 250	800 g (28.2 oz)

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 canister. The canister and battery pack may be used at 12 month setting even if activated 3 years from production date.

## Ordering details <sup>1)</sup>

Grease	LGWA 2	LGEM 2	LGHB 2	LGHP 2	LGFP 2	LGWM 2
Description	High load, extreme pressure, wide temperature range	High viscosity bearing grease with solid lubricants	High load, high temperature, high viscosity	High performance, high temperature	Food compatible NSF H1 certified	High loads, wide temperature
Complete unit 125	TLSD 125/WA2	TLSD 125/EM2	TLSD 125/HB2	TLSD 125/HP2	TLSD 125/FP2	TLSD 125C/WM2 <sup>2)</sup>
Complete unit 250	TLSD 250/WA2	TLSD 250/EM2	TLSD 250/HB2	TLSD 250/HP2	TLSD 250/FP2	TLSD 250C/WM2 <sup>2)</sup>
Refill set 125	LGWA 2/SD125	LGEM 2/SD125	LGHB 2/SD125	LGHP 2/SD125	LGFP 2/SD125	LGWM 2/SD125C <sup>2)</sup>
Refill set 250	LGWA 2/SD250	LGEM 2/SD250	LGHB 2/SD250	LGHP 2/SD250	LGFP 2/SD250	LGWM 2/SD250C <sup>2)</sup>

Chain oils	LHMT 68	LHHT 265	LHFP 150
Description	Medium temperature oil	High temperature oil	Food compatible, NSF H1 approved oil
Complete unit 125	TLSD 125/HMT68	–	TLSD 125/HFP15
Complete unit 250	TLSD 250/HMT68	–	TLSD 250/HFP15
Refill set 125	LHMT 68/SD125	LHHT 265/SD125	LHFP 150/SD125
Refill set 250	LHMT 68/SD250	LHHT 265/SD250	LHFP 150/SD250

## Accessories ordering details

Designation	Description
LAPA 45	Angle connection 45°
LAPA 90	Angle connection 90°
LAPB 3x4E1 <sup>3)</sup>	Brush 30 × 40 mm
LAPB 3x7E1 <sup>3)</sup>	Brush 30 × 60 mm
LAPB 3x10E1 <sup>3)</sup>	Brush 30 × 100 mm
LAPB 5-16E1 <sup>3)</sup>	Elevator brush, 5–16 mm gap
LAPB D2 <sup>3)</sup>	Brush round Ø20 mm
LAPC 63	Clamp
LAPC 13	Bracket
LAPE 35	Extension 35 mm
LAPE 50	Extension 50 mm
LAPF F <sup>1/4</sup>	Tube connection female G <sup>1/4</sup>
LAPF M <sup>1/8</sup>	Tube connection male G <sup>1/8</sup>
LAPF M <sup>1/4</sup>	Tube connection male G <sup>1/4</sup>
LAPF M <sup>3/8</sup>	Tube connection male G <sup>3/8</sup>
LAPG <sup>1/4</sup>	Grease nipple G <sup>1/4</sup>
LAPM 2	Y-connection

Designation	Description
LAPN <sup>1/8</sup>	Nipple G <sup>1/4</sup> – G <sup>1/8</sup>
LAPN <sup>1/4</sup>	Nipple G <sup>1/4</sup> – G <sup>1/4</sup>
LAPN <sup>1/2</sup>	Nipple G <sup>1/4</sup> – G <sup>1/2</sup>
LAPN <sup>1/4</sup> UNF	Nipple G <sup>1/4</sup> – <sup>1/4</sup> UNF
LAPN <sup>3/8</sup>	Nipple G <sup>1/4</sup> – G <sup>3/8</sup>
LAPN 6	Nipple G <sup>1/4</sup> – M6
LAPN 8	Nipple G <sup>1/4</sup> – M8
LAPN 8x1	Nipple G <sup>1/4</sup> – M8 × 1
LAPN 10	Nipple G <sup>1/4</sup> – M10
LAPN 10x1	Nipple G <sup>1/4</sup> – M10 × 1
LAPN 12	Nipple G <sup>1/4</sup> – M12
LAPN 12x1.5	Nipple G <sup>1/4</sup> – M12 × 1,5
LAPT 1000	Flexible tube, 1 000 mm long, 8 × 6 mm
LAPT 5000	Flexible tube, 5 000 mm long, 8 × 6 mm
LAPV <sup>1/4</sup>	Non-return valve G <sup>1/4</sup>
LAPV <sup>1/8</sup>	Non-return valve G <sup>1/8</sup>
TLSD 1-BAT	Battery pack
TLSD 1-BATC	Lithium battery pack

1) TLSD lubricator and SD refill sets are not for offer/sale/use in Germany, France or United States.

2) Special version for low temperatures.

3) Suitable for use with oil filled TLSD only.

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