SKF SYSTEM 24 - TLSD series

Electro-mechanical single point automatic lubricators

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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
- Maximum discharge pressure of 5 bar over the whole dispensing period
- Transparent reservoir allows visual inspection
- Refill 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 canister 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.

Drive unit - TLSD 1-DS

Top part of TLSD with electric drive and time setting wheel. Supplied with plastic cap and support plate for grease lubrication

Refill set - e.g. LGWA 2/SD125

Replaceable canister filled with 125 ml or 250 ml of grease or oil. Every refill set 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.

Multiple accessories are available for TLSD lubricators.
More information can be found on pages 14-15.

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.

Ordering details

Grease	Description	Complete unit 125	Complete unit 250	Refill set 125	Refill set 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
LGFP 2	General purpose food grade (NSF H1)	TLSD 125/FP2	TLSD 250/FP2	LGFP 2/SD125	LGFP 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.

Complete units

Refill sets

Technical data

Designation	TLSD 125 and TLSD 250
Grease capacity	
TLSD 125	125 ml *(4.2 US fl. oz)*
TLSD 250	250 ml *(8.5 US fl. oz)*
Emptying time	User adjustable: 1, 2, 3, 4, 6, 8, 9, 10 and 12 months
Lowest grease purge	
TLSD 125	0,3 ml *(0.01 US fl. oz)* per day
TLSD 250	0,7 ml *(0.02 US fl. oz)* per day
Highest grease purge	
TLSD 125	4,1 ml *(0.13 US fl. oz)* per day
TLSD 250	8,3 ml *(0.28 US fl. oz)* per day
Ambient temperature range	
TLSD 1-BAT	0 to 50 °C *(30 to 120 °F)*
Maximum operating pressure	5 bar *(75 psi)*
Drive mechanism	Electro mechanical
Connection thread	G 1/4
Maximum feed line length with:	
grease	Up to 3 meters *(10 ft)* [1]
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
Recommended storage temperature	20 °C *(70 °F)*
Storage life of lubricator	3 years [2] (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.

Accessories

Designation	Description
TLSD 1-DS	Drive unit complete with support plate (TLSD 1-SP)
TLSD 1-SPV	Support plate with integrated non-return valve for oil lubrication
LAPA 45	Angle connection 45°
LAPA 90	Angle connection 90°
LAPE 35	Extension 35 mm
LAPE 50	Extension 50 mm
LAPF F 1/4	Tube connection female G 1/4
LAPF M 1/8	Tube connection male G 1/8
LAPF M 1/4	Tube connection male G 1/4
LAPF M 1/4SW	Extra strong tube connection male G 1/4
LAPF M 3/8	Tube connection male G 3/8
LAPG 1/4	Grease nipple G 1/4

Designation	Description
LAPM 2	Y-connection
LAPN 1/8	Nipple G 1/4 – G 1/8
LAPN 1/4	Nipple G 1/4 – G 1/4
LAPN 1/2	Nipple G 1/4 – G 1/2
LAPN 1/4 UNF	Nipple G 1/4 – 1/4 UNF
LAPN 3/8	Nipple G 1/4 – G 3/8
LAPN 6	Nipple G 1/4 – M6
LAPN 8	Nipple G 1/4 – M8
LAPN 8x1	Nipple G 1/4 – M8 × 1
LAPN 10	Nipple G 1/4 – M10
LAPN 10x1	Nipple G 1/4 – M10 × 1
LAPN 12	Nipple G 1/4 – M12
LAPN 12x1.5	Nipple G 1/4 – M12 × 1,5
LAPB 3x4E1	Brush 30 × 40 mm

Designation	Description
LAPB 3x7E1	Brush 30 × 60 mm
LAPB 3x10E1	Brush 30 × 100 mm
LAPB 5-16E1	Elevator brush, 5–16 mm gap
LAPV 1/4	Non-return valve G 1/4
LAPV 1/8	Non-return valve G 1/8
LAPC 13	Bracket
LAPC 63	Clamp
LAPT 1000	Flexible tube, 1 000 mm long, 8 × 6 mm
LAPT 5000	Flexible tube, 5 000 mm long, 8 × 6 mm
LAPT 1000SW	Extra strong flexible tube, 1 000 mm long, 8 × 6 mm
LAPT 5000SW	Extra strong flexible tube, 5 000 mm long, 8 × 6 mm

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