

# SKF SYSTEM 24 - TLSD series

Electro-mechanical single point automatic lubricators









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Electro-mechanical single point automatic lubricators

### 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 <sup>2)</sup>	LHMT 68/SD250 <sup>2)</sup>
LFFM 100	General purpose food grade (NSF H1)	-	-	LFFM 100/SD125 2)	LFFM 100/SD250 2)

<sup>1)</sup> Includes support plate with non-return valve.

<sup>2)</sup> 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 <sup>2)</sup> (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	<b>Total weight (incl. packaging)</b> 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 <sup>1</sup> /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> ) <sup>1)</sup> 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.

<sup>2)</sup> 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 <sup>1</sup> /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 <sup>1</sup> / <sub>4</sub>	Nipple $G^{1/4} - G^{1/4}$	LAPV 1/4	Non-return valve G <sup>1</sup> / <sub>4</sub>		
	return valve for oil lubrication	LAPN <sup>1</sup> / <sub>2</sub>	Nipple $G^{1/4} - G^{1/2}$	LAPV <sup>1</sup> /8	Non-return valve G1/8		
LAPA 45	Angle connection 45°	LAPN <sup>1</sup> /4 UNF	Nipple G <sup>1</sup> / <sub>4</sub> – <sup>1</sup> / <sub>4</sub> UNF	LAPC 13	Bracket		
LAPA 90	Angle connection 90°	LAPN <sup>3</sup> /8	Nipple $G^{1}_{4} - G^{3}_{8}$	LAPC 63	Clamp		
LAPE 35	Extension 35 mm	LAPN 6	Nipple G <sup>1</sup> / <sub>4</sub> – M6	LAPT 1000	Flexible tube, 1 000 mm long,		
LAPE 50	Extension 50 mm	LAPN 8	Nipple G <sup>1</sup> / <sub>4</sub> – M8		8 × 6 mm		
LAPF F <sup>1</sup> / <sub>4</sub>	Tube connection female G <sup>1</sup> / <sub>4</sub>	LAPN 8x1	Nipple $G^{1/4} - M8 \times 1$	LAPT 5000	Flexible tube, 5 000 mm long,		
LAPF M <sup>1</sup> /8	Tube connection male G <sup>1</sup> /8	LAPN 10	Nipple $G^{1/4}$ – M10		8 × 6 mm		
LAPF M <sup>1</sup> / <sub>4</sub>	Tube connection male G <sup>1</sup> / <sub>4</sub>	LAPN 10x1	Nipple $G^{1/4} - M10 \times 1$	LAPT 1000SW	Extra strong flexible tube,		
LAPF M <sup>1</sup> /4SW	Extra strong tube connection	LAPN 12	Nipple $G^{1/4} - M12$		1 000 mm long, 8 × 6 mm		
	male G <sup>1</sup> /4	LAPN 12x1.5	Nipple $G^{1/4} - M12 \times 1,5$	LAPT 5000SW	Extra strong flexible tube,		
LAPF M <sup>3</sup> / <sub>8</sub>	Tube connection male G <sup>3</sup> / <sub>8</sub>	LAPB 3x4E1	Brush $30 \times 40 \text{ mm}$		5 000 mm long, 8 × 6 mm		
LAPG 1/4	Grease nipple G <sup>1</sup> / <sub>4</sub>	LAPB 3x7E1	Brush 30 × 60 mm	TLSD 1-BATC	Lithium battery pack for TLSD 125/250		

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