

SKF SYSTEM 24 - TLSD series

Electro-mechanical single point automatic lubricators



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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.

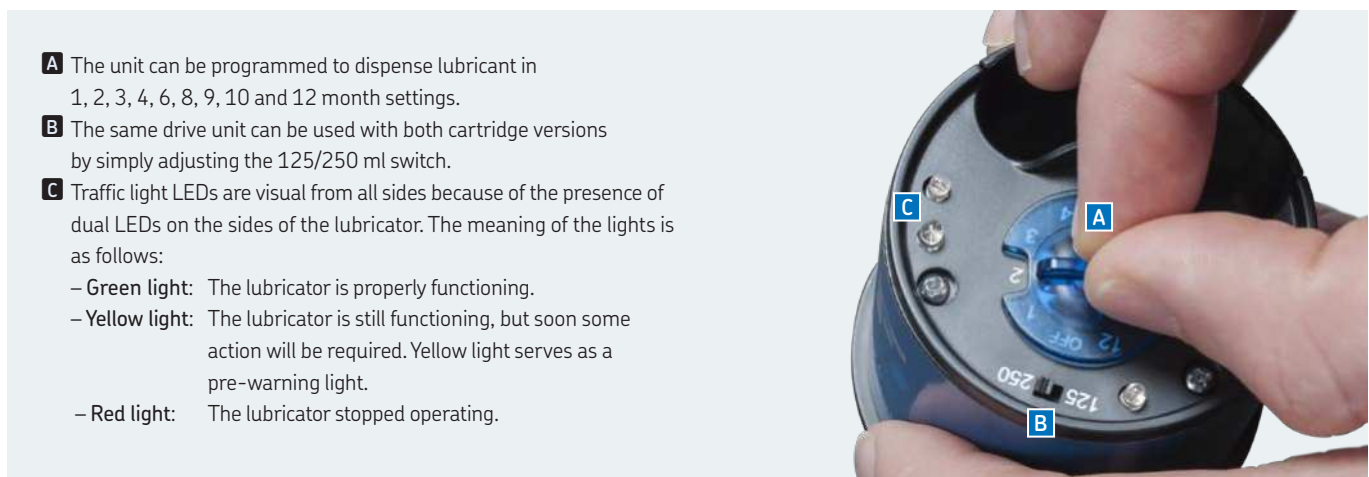
- Filled with SKF Lubricants especially developed for bearing applications
- Maximum discharge pressure of 5 bar over the whole dispensing period
- Transparent reservoir allows visual inspection
- Cartridge sets include battery pack
- Suitable for both direct and remote installation
- Complete sets are 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.





Ordering details

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

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 separately.

- 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



Drive unit TLSD 1-DK

Complete units



Technical data

Designation	TLSD 125 and TLSD 250		
Grease capacity		Protection class assembled lubricator	IP 65
TLSD 125	125 ml (4.2 US fl. oz)	Battery pack	TLSD 1-BAT 4,5 V 2,7 Ah/Alkaline manganese
TLSD 250	250 ml (8.5 US fl. oz)	Recommended storage temperature	20 °C (70 °F)
Emptying time	User adjustable: 1, 2, 3, 4, 6, 8, 9, 10 and 12 months	Storage life of lubricator	3 years ²⁾ (2 years for food grade lubricants and oils)
Lowest grease purge		Total weight (incl. packaging)	
TLSD 125	0,3 ml (0.01 US fl. oz) per day	TLSD 125	635 g (22.5 oz)
TLSD 250	0,7 ml (0.02 US fl. oz) per day	TLSD 250	800 g (28.2 oz)
Highest grease purge		LED status indicators	TLSD 1-DS TLSD 1-DK
TLSD 125	4,1 ml (0.13 US fl. oz) per day	Green OK	each 30 sec each 3 sec
TLSD 250	8,3 ml (0.28 US fl. oz) per day	Yellow Warning, high back pressure	each 5 sec each 1 sec
Ambient temperature range		Warning, low battery power	each 30 sec -
TLSD 1-BAT	0 to 50 °C (30 to 120 °F)	Warning, cartridge almost empty	- each 3 sec
Maximum operating pressure	5 bar (75 psi)	Red Alarm, high back pressure	- each 1 sec
Drive mechanism	Electro mechanical	Alarm, empty cartridge	each 2 sec each 3 sec
Connection thread	G ¹ / ₄	Alarm, error in lubricator	each 5 sec each 5 sec
Maximum feed line length with:			
grease	Up to 3 meters (10 ft) ¹⁾		
oil	Up to 5 meters (16 ft)		

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 plate (TLSD 1-SP)	LAPM 2	Y-connection	LAPB 3x10E1	Brush 30 × 100 mm
TLSD 1-SPV	Support plate with integrated non-return valve for oil lubrication	LAPN 1/8	Nipple G ¹ / ₄ – G ¹ / ₈	LAPB 5-16E1	Elevator brush, 5–16 mm gap
LAPA 45	Angle connection 45°	LAPN 1/4	Nipple G ¹ / ₄ – G ¹ / ₄	LAPV 1/4	Non-return valve G ¹ / ₄
LAPA 90	Angle connection 90°	LAPN 1/2	Nipple G ¹ / ₄ – G ¹ / ₂	LAPV 1/8	Non-return valve G ¹ / ₈
LAPE 35	Extension 35 mm	LAPN 3/8	Nipple G ¹ / ₄ – G ³ / ₈	LAPC 13	Bracket
LAPE 50	Extension 50 mm	LAPN 6	Nipple G ¹ / ₄ – M6	LAPC 63	Clamp
LAPF F1/4	Tube connection female G ¹ / ₄	LAPN 8	Nipple G ¹ / ₄ – M8	LAPT 1000	Flexible tube, 1 000 mm, 8 × 6 mm
LAPF M1/8	Tube connection male G ¹ / ₈	LAPN 8x1	Nipple G ¹ / ₄ – M8 × 1	LAPT 5000	Flexible tube, 5 000 mm, 8 × 6 mm
LAPF M1/4	Tube connection male G ¹ / ₄	LAPN 10	Nipple G ¹ / ₄ – M10	LAPT 1000SW	Extra strong flexible tube, 1 000 mm, 8 × 6 mm
LAPF M1/4SW	Extra strong tube connection male G ¹ / ₄	LAPN 10x1	Nipple G ¹ / ₄ – M10 × 1	LAPT 5000SW	Extra strong flexible tube, 5 000 mm, 8 × 6 mm
LAPF M3/8	Tube connection male G ³ / ₈	LAPN 12	Nipple G ¹ / ₄ – M12	TLSD 1-BAT	Alkaline battery pack for TLSD 125/250
LAPG 1/4	Grease nipple G ¹ / ₄	LAPN 12x1.5	Nipple G ¹ / ₄ – M12 × 1,5	TLSD 1-BATC	Lithium battery pack for TLSD 125/250 (for low ambient temperature)
		LAPB 3x4E1	Brush 30 × 40 mm		
		LAPB 3x7E1	Brush 30 × 60 mm		

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