

Automatic lubricators TLSD 125 and TLSD 250

Application

The SKF SYSTEM 24 TLSD is a single-point automatic lubricator, which can be used to supply grease to single lubrication points that are usually lubricated by means of a grease gun. Lubrication points, which are designed to be re-lubricated by means of a grease gun, replenish the grease buffer at the lubrication point.

TLSD lubricators can be set to help ensure that the correct quantity of lubricant is delivered over a set time period. This allows a more accurate control of the amount of lubricant supplied compared to traditional manual re-lubrication techniques.

TLSD is ideal for applications which are difficult to reach with a grease gun, or where a large number of greasing points mean that manual greasing techniques would be less effective.

Typical applications include, amongst others:

- Pumps
- Fans and blowers
- Conveyors
- Escalators
- Cranes
- Food processing machinery
- Oil filled units are also available, the typical applications for these include, chains, elevator slides and escalator guidance rails

Description

The SKF SYSTEM 24 TLSD is a single point electro mechanical driven automatic lubrication system. It consists of a transparent canister filled with a specified lubricant and a battery powered drive unit. By setting the dial on the lubricator the dispense rate can be adjusted. The dispense rate can be set to empty the unit in 1, 2, 3, 4, 6, 8, 9, 10 or 12 months. The lubricator is delivered with a mounting flange to help protect the lubricator against vibration.

The SKF SYSTEM 24 TLSD series is available in two versions, TLSD 125 filled with 125 ml (4.2 fl. oz US) SKF lubricant and TLSD 250 filled with 250 ml (8.5 fl. oz US) SKF lubricant. These versions only differ in the canister size. For both systems refills can be ordered when the first canister is empty. These refill sets consist of a canister filled with SKF lubricant and a battery pack. As both versions have the same drive unit, it is possible to use different size refill sets in the lubricator

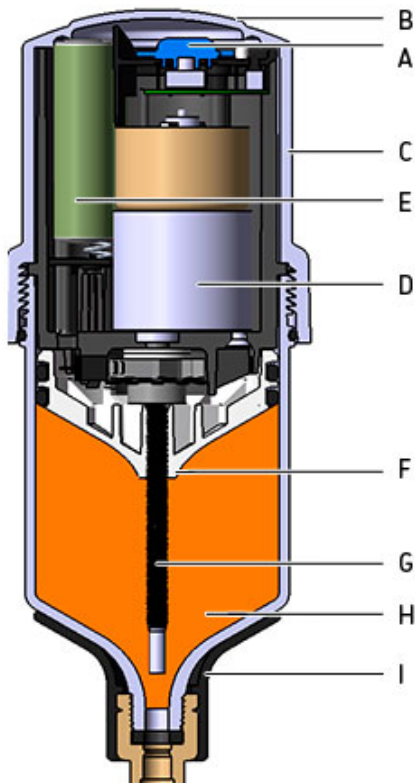
Oil filled TLSD units are also available; these are supplied with a mounting flange with integrated non-return valve, which helps prevent oil from flowing out of units in an uncontrolled manner. A special version of TLSD lubricators is available for locations with lower ambient temperatures. This version contains a lithium battery pack and LGWM 2. The lithium battery pack has more energy content and the energy content is less dependent on the temperature compared with the standard alkaline battery pack. LGWM 2 has the best flow characteristics at low temperatures.

For applications where there is insufficient space, high ambient temperature, excessive vibration or hazardous environments, TLSD units can be remotely mounted. In this instance, a female tube connection (LAPF F1/4), tubing (LAPT 1000 or LAPT 5000) and a male connector to the application (LAPF M1/4) is required. For oil filled lubricators, a non-return valve (LAPV 1/4 or LAPV 1/8) at the lowest point of the feed line is also required. The maximum feed line for TLSD with grease is up to 3 meters (10 ft), dependent on ambient temperatures and for oil filled TLSD it is up to 5 meters (16 ft). When using feed lines it is important that these are pre-filled with grease or oil. Pre-greasing of feed lines can be done with a standard grease gun (1077600) through the combining of a grease nipple (LAPG 1/4), an extension (LAPE 35) and a female tube connection (LAPF F1/4).

To easily determine the correct setting for your TLSD application, SKF provides the easy to use DialSet program. The program is available in many languages as a [stand-alone version for PC](#), in English for smartphones ([Apple](#) and [Android](#)), as well as online on www.mapro.skf.com/dialset, and contains calculations for both the 125 and 250 versions of SKF SYSTEM 24 TLSD.

A full [range of accessories](#) for SKF SYSTEM 24 lubricators is also available





A On /off knob and time setting dial

Enable easy activation and dial setting

B LED status indicators

Helps verify operating status

C Drive cover

Easily removable, seals and helps prevent ingress of dirt and moisture

D Electric motor and gearbox

Helps enable constant discharge pressure

E Battery pack

F Piston

Special piston shape helps ensure optimum emptying of lubricator

G Spindle

Rotates to drive piston, enabling lubricant to be dispensed

H Lubricant canister

Filled with high quality SKF lubricant

I Support plate

Increases the vibration resistance for direct installation on application

Scope of supply

Product	Designation	Description
Complete unit filled with grease	TLSD 125/ "lubricant" TLSD 250/ "lubricant"	Battery pack (TLSD 1-BAT) Canister filled with SKF grease Drive unit (TLSD 1-DU) Mounting flange (TLSD 1-SP) Instructions for use
Complete unit filled with oil	TLSD 125/"lubricant" TLSD 250/"lubricant"	Battery pack (TLSD 1-BAT) Canister filled with SKF oil Drive unit (TLSD 1-DU) Mounting flange with integrated non return valve (TLSD 1-SPV) Instructions for use
Refill set	"lubricant"/SD125 "lubricant"/SD250	Battery pack Canister filled with SKF lubricant

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

Technical data

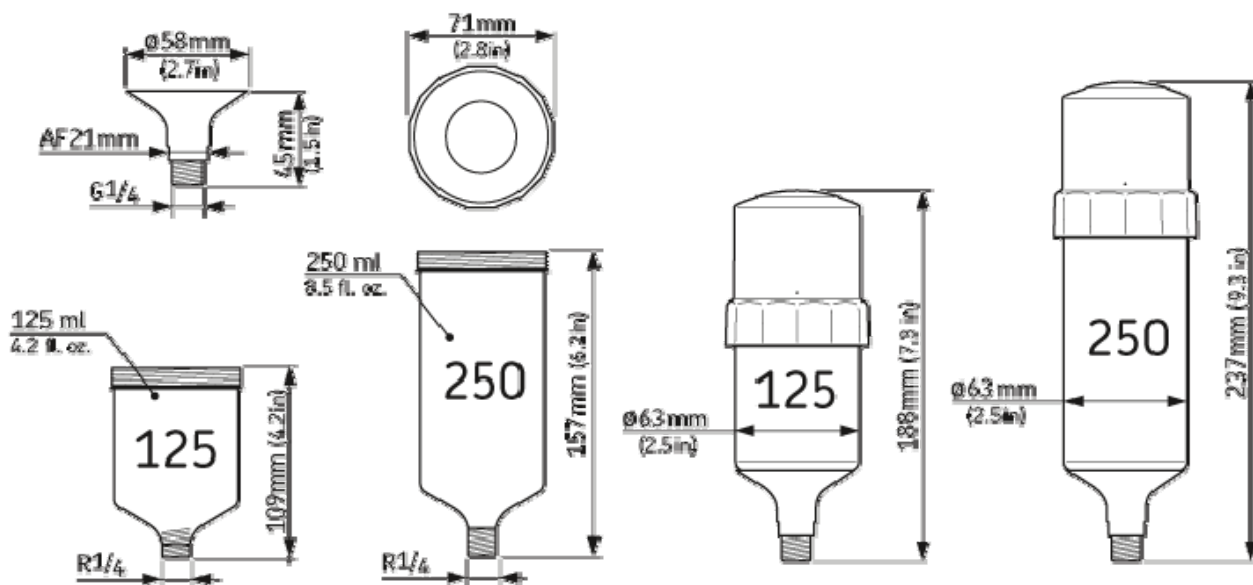
Grease capacity	TLSD 125	125 ml (4,2 fl. oz US)
	TLSD 250	250 ml (8,5 fl. oz US)
Emptying time	User adjustable: 1,2,3,4,6,8,9, 10 and 12 months	
Lowest grease purge	TLSD 125	0,3 ml per day (0,01fl. oz US)
	TLSD 250	0,7 ml per day (0,02 fl. oz US)
Highest grease purge	TLSD 125	4,1 ml per day (0,13 fl. oz US)
	TLSD 250	8,3 ml per day (0,28 fl. oz US)
Ambient temperature range	0 °C (-10°C with TLSD 1-BATC) to 50 °C 32 °F (14 °F with TLSD 1-BATC) to 125 °F	
Maximum operating pressure	5 bar (75 psi)	
Drive mechanism	Electro mechanical	
Connection thread	G ¼	
Maximum feed line length with:	grease	Up to 3 meters (10 ft)*
	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 2 sec) Warning, empty cartridge Red led (each 5 sec) Warning, stopped on error.	
Protection class assembled lubricator	IP 65	
Battery pack/ type TLSD 1-BAT	4.5V, 2.7 Ah/ Alkaline manganese	

Battery pack / type TLSD 1-BATC		4.5V, 2.9 Ah/ Lithium-Iron Disulfide
Recommended storage temperature		20 °C (70 °F)
Storage life of lubricator		3 years** (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)

* The maximum feed line length is dependent on ambient temperature, grease type and back pressure created by the application.

** 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 even at 12 months setting if activated 3 years from production date.

Dimensions



Disposal	Industrial waste	EU code
	Canister	15 01 10
	Battery pack TLSD 1-BAT	16 06 04
	Battery pack TLSD 1-BATC	16 06 05

SKF SYSTEM 24 TLSD complete unit and refill sets

Lubricant	Description	Product	Designation
LGWA 2	High load, extreme pressure, wide temperature range bearing grease	Complete unit 125 ml	TLSD 125/WA2
		Complete unit 250 ml	TLSD 250/WA2
		Refill set 125 ml	LGWA 2/SD125
		Refill set 250 ml	LGWA 2/SD250
LGEM 2	High viscosity bearing grease with solid lubricants	Complete unit 125 ml	TLSD 125/EM2
		Complete unit 250 ml	TLSD 250/EM2
		Refill set 125 ml	LGEM 2/SD125
		Refill set 250 ml	LGEM 2/SD250
LGHB 2	High load, high temperature, high viscosity bearing grease	Complete unit 125 ml	TLSD 125/HB2
		Complete unit 250 ml	TLSD 250/HB2
		Refill set 125 ml	LGHB 2/SD125
		Refill set 250 ml	LGHB 2/SD250
LGHP 2	High performance, high temperature bearing grease	Complete unit 125 ml	TLSD 125/HP2
		Complete unit 250 ml	TLSD 250/HP2
		Refill set 125 ml	LGHP 2/SD125
		Refill set 250 ml	LGHP 2/SD250
LGFP 2	Food compatible bearing grease NSF H1 certified	Complete unit 125 ml	TLSD 125/FP2
		Complete unit 250 ml	TLSD 250/FP2
		Refill 125 ml	LGFP 2/SD125
		Refill 250 ml	LGFP 2/SD250
LHMT 68	Medium temperature oil	Complete unit 125 ml	TLSD 125/HMT68
		Complete unit 250 ml	TLSD 250/HMT68
		Refill 125 ml	LHMT 68/SD125
		Refill 250 ml	LHMT 68/SD250
LHHT 265	High temperature oil	Refill 125 ml	LHHT 265/SD125
		Refill 250 ml	LHHT 265/SD250
LHFP 150	Food compatible, NSF H1 certified	Complete unit 125 ml	TLSD 125/HFP15
		Complete unit 250 ml	TLSD 250/HFP15
		Refill 125 ml	LHFP 150/SD125
		Refill 250 ml	LHFP 150/SD250

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SKF SYSTEM 24 TLSD complete unit and refill sets version for low temperatures

Lubricant	Description	Product	Designation
LGWM 2	High load, wide temperature range bearing grease	Complete unit 125 ml	TLSD 125C/WM2
		Complete unit 250 ml	TLSD 250C/WM2
		Refill 125 ml	LGWM 2/SD125C
		Refill 250 ml	LGWM 2/SD250C

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SKF SYSTEM 24 TLSD spare parts*

Designation	Description
TLSD 1-DU	Drive Unit
TLSD 1-SP	Mounting flange
TLSD 1-SPV	Mounting flange with integrated non-return valve

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