

SKF SYSTEM 24 - TLSD 1-DK

Cabled single point automatic lubricator



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TLSD series

The Cabled single point automatic lubricator is based on the proven single point automatic lubricator TLSD series. Main differentiators are the direct power supply from the machine's control panel and the wired signal function towards the machine's PLC.

Cabled single point automatic lubricators can be set to help ensure that the correct quantity of lubricant is delivered over a set time period and when the machine is running. Because of being powered from an external power supply, it can be switched on and off when necessary. This allows improved accuracy of the amount of lubricant supplied compared to traditional manual re-lubrication techniques. The lubricator's output signals can be used and stored within the equipment's PLC. The Cabled single point automatic lubricator has been developed for applications which are not running continuously.

- Possibility to lubricate only when the equipment is running
- Control and monitoring through machine PLC connection
- Suitable for both direct and remote installation
- Direct power supply
- Temperature independent dispense rate
- Maximum discharge pressure of 5 bar (75 psi) over the whole dispensing period
- Dispense rate available in various settings
- Red-yellow-green LEDs indicate the lubricator's status
- Reduce the service visits
- Cartridges filled with SKF lubricants especially developed for bearing applications
- Transparent cartridge reservoir allows visual inspection

Typical applications

- Critical applications where extreme reliability and additional monitoring is required
- Industrial equipment
- Elevators
- Compressors

SKF DialSet helps to calculate the correct dispense rate.

Multiple accessories are available for TLSD lubricators.

Drive unit - TLSD 1-DK

Top part with electric drive and time setting wheel. Supplied with cable, plastic cap and support plate for grease lubrication (TLSD 1-SP).

Cartridge - e.g. LGWA 2/SD125NB

Replaceable cartridge filled with 125 ml or 250 ml of SKF grease or oil.

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 and can be ordered separately.





Ordering details - Components

Designation	Description
TLSD 1-DK	Cabled drive unit with support plate for grease (TLSD 1-SP)
LGWA 2/SD125NB	TLSD cartridge filled with LGWA 2, 125ml excl. a battery pack
LGWA 2/SD250NB	TLSD cartridge filled with LGWA 2, 250ml excl. a battery pack
TLSD 1-SPV	Support plate with integrated non-return valve

Ordering details - Cartridges (excl. a battery pack)

Grease	Description	Cartridge 125 ml	Cartridge 250 ml
LGWA 2	High load, extreme pressure, wide temperature range	LGWA 2/SD125NB	LGWA 2/SD250NB
LGEM 2	High viscosity bearing grease with solid lubricants	LGEM 2/SD125NB	LGEM 2/SD250NB
LGHB 2	High load, high temperature, high viscosity	LGHB 2/SD125NB	LGHB 2/SD250NB
LGHQ 2	High performance, high temperature	LGHQ 2/SD125NB	LGHQ 2/SD250NB
LGFG 2	General purpose food grade (NSF H1)	LGFG 2/SD125NB	LGFG 2/SD250NB
LGFQ 2	High load and wide temperature food grade (NSF H1)	LGFQ 2/SD125NB	LGFQ 2/SD250NB
Chain oils			
LHMT 68	Medium temperature oil		LHMT 68/SD250NB ¹⁾

¹⁾ Support plate with non return valve (TLSD 1-SPV) can be ordered separately.

TLSD series lubricant cartridges



Technical data

Product	Cabled automatic lubricator TLSD series		
Grease capacity			LED status indicators
.../SD125	125 ml (4.2 US fl. oz)		Green led (each 3 sec) OK
.../SD250	250 ml (8.5 US fl. oz)		Yellow led (each 1 sec) Warning, high back pressure
Emptying time	User adjustable: 1, 2, 3, 4, 6, 8, 9, 10 and 12 months		Yellow led (each 3 sec) Warning, cartridge almost empty (3% left)
			Red led (each 1 sec) Alarm, high back pressure
			Red led (each 3 sec) Alarm, empty cartridge
			Red led (each 5 sec) Alarm, error in lubricator
Lowest grease purge			IP rating
.../SD125	0.3 ml (0.01 US fl. oz) per day		IP 41
.../SD250	0.7 ml (0.02 US fl. oz) per day		
Highest grease purge			Total weight (incl. packaging)
.../SD125	4.1 ml (0.13 US fl. oz) per day		Drive unit TLSD 1-DK 355 g (12.5 oz)
.../SD250	8.3 ml (0.28 US fl. oz) per day		
Ambient temperature range	-20 to 50 °C (-4 to 122 °F)		Power supply
			7 V - 35 V / up to 1.5A
Maximum operating pressure	5 bar (75 psi)		Cable length
			1 500 mm (59 in.)
Drive mechanism	Electro mechanical		Cable diameter
			4.8 mm (0.2 in.) max.
Connection thread	G ¹ / ₄		Wire size
			24 AWG 7/32 (0.25 mm ²)
Maximum feed line length with:			Wire colours
grease	Up to 3 meters (10 ft) ¹⁾		White/Brown +Positive (VCC) / -Negative (GND)
oil	Up to 5 meters (16 ft)		Green/Yellow Relay contact 1 (NO) / Relay contact 2 (NO)

¹⁾ The maximum feed line length is dependent on ambient temperature, grease type and back pressure created by the application.

Accessories

Designation	Description	Designation	Description	Designation	Description
TLSD 1-DS	Battery-driven 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 1/4 UNF	Nipple G ¹ / ₄ - 1/4 UNF	LAPC 13	Bracket
LAPE 50	Extension 50 mm	LAPN 3/8	Nipple G ¹ / ₄ - G ³ / ₈	LAPC 63	Clamp
LAPF F ¹ / ₄	Tube connection female G ¹ / ₄	LAPN 6	Nipple G ¹ / ₄ - M6	LAPT 1000	Flexible tube, 1 000 mm long, 8 × 6 mm
LAPF M ¹ / ₈	Tube connection male G ¹ / ₈	LAPN 8	Nipple G ¹ / ₄ - M8	LAPT 5000	Flexible tube, 5 000 mm long, 8 × 6 mm
LAPF M ¹ / ₄	Tube connection male G ¹ / ₄	LAPN 8x1	Nipple G ¹ / ₄ - M8 × 1	LAPT 1000SW	Extra strong flexible tube, 1 000 mm long, 8 × 6 mm
LAPF M ¹ / ₄ SW	Extra strong tube connection male G ¹ / ₄	LAPN 10	Nipple G ¹ / ₄ - M10	LAPT 5000SW	Extra strong flexible tube, 5 000 mm long, 8 × 6 mm
LAPF M ³ / ₈	Tube connection male G ³ / ₈	LAPN 10x1	Nipple G ¹ / ₄ - M10 × 1		
LAPG 1/4	Grease nipple G ¹ / ₄	LAPN 12	Nipple G ¹ / ₄ - M12		
		LAPN 12x1.5	Nipple G ¹ / ₄ - M12 × 1.5		
		LAPB 3x4E1	Brush 30 × 40 mm		
		LAPB 3x7E1	Brush 30 × 60 mm	TLSD 1-BATC	Lithium battery pack for TLSD 125/250

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