SKF SYSTEM 24 TLSD Series



Electro-mechanical single point automatic lubricators





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.
- Temperature independent dispense rate.
- Maximum discharge pressure of 5 bar over the whole dispensing period.
- Dispense rate available in various settings.
- Transparent reservoir allows visual inspection.
- Red-yellow-green LEDs indicate the lubricator's status.
- Refill sets include battery pack.
- Special product version offering for cold conditions.
- Supplied with support flange for enhanced sturdiness.
- Suitable for both direct and remote installation.

Typical applications

- Critical applications where extreme reliability and additional monitoring is required.
- Applications in restrictive and hazardous locations.
- Applications requiring high volumes of lubricant.

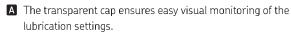
SKF DialSet helps to calculate the correct dispense rate.



2 **5KF**

Settings and display features





- **B** The unit can be programmed to dispense lubricant in 1, 2, 3, 4, 6, 8, 9, 10 and 12 month settings.
- The same drive unit can be used with both cartridge versions by simply adjusting the 125/250 ml switch.



■ 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 same action will be required. Yellow light serves as a pre-warning light.

- Red light: The lubricator stopped operating.

Technical data	
Designation	TLSD 125 and TLSD 250
Grease capacity - TLSD 125 - TLSD 250	125 ml (4. <i>2 US fl. oz</i>) 250 ml (8. <i>5 US fl. oz</i>)
Emptying time	User adjustable: 1, 2, 3, 4, 6, 8, 9, 10 and 12 months
Lowest grease purge - TLSD 125 - TLSD 250	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
Ambient temperature range - TLSD 1-BAT - TLSD 1-BATC	0 to 50 °C <i>(30 to 120 °F)</i> −10 to +50 °C <i>(15 to 120 °F)</i>
Maximum operating pressure	5 bar (75 <i>psi</i>)
Drive mechanism	Electro mechanical
Connection thread	G ¹ / ₄

Maximum feed line length with – grease	n: Up to 3 meters <i>(10 ft)</i> ¹⁾
– oil	Up to 5 meters (16 ft)
LED status indicators – Green led (each 30 sec) – Yellow led (each 30 sec) – Yellow led (each 5 sec) – Red led (each 5 sec) – Red led (each 2 sec)	OK Pre warning, low battery power Pre warning, high back pressure Warning, stopped on error Warning, empty cartridge
Protection class assembled lubricator	IP 65
Battery pack – TLSD 1-BAT – TLSD 1-BATC	4,5 V 2,7 Ah/Alkaline manganese 4,5 V 2,9 Ah/Lithium-Iron Disulfide
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 - TLSD 250	635 g (22.5 oz) 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.

5KF 3

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.

Ordering details ¹	.)					
Grease	LGWA 2	LGEM 2	LGHB 2	LGHP 2	LGFP 2	LGWM 2
Description	High load, extreme pressure, wide temperature range	High viscosity bearing grease with solid lubricants	High load, high temperature, high viscosity	High performance, high temperature	Food compatible NSF H1 certified	High loads, wide temperature
Complete unit 125	TLSD 125/WA2	TLSD 125/EM2	TLSD 125/HB2	TLSD 125/HP2	TLSD 125/FP2	TLSD 125C/WM2 ²⁾
Complete unit 250	TLSD 250/WA2	TLSD 250/EM2	TLSD 250/HB2	TLSD 250/HP2	TLSD 250/FP2	TLSD 250C/WM2 ²⁾
Refill set 125	LGWA 2/SD125	LGEM 2/SD125	LGHB 2/SD125	LGHP 2/SD125	LGFP 2/SD125	LGWM 2/SD125C ²⁾
Refill set 250	LGWA 2/SD250	LGEM 2/SD250	LGHB 2/SD250	LGHP 2/SD250	LGFP 2/SD250	LGWM 2/SD250C ²⁾

Chain oils	LHMT 68	LHHT 265	LHFP 150
Description	Medium temperature oil	High temperature oil	Food compatible, NSF H1 approved oil
Complete unit 125	TLSD 125/HMT68	-	TLSD 125/HFP15
Complete unit 250	TLSD 250/HMT68	-	TLSD 250/HFP15
Refill set 125	LHMT 68/SD125	LHHT 265/SD125	LHFP 150/SD125
Refill set 250	LHMT 68/SD250	LHHT 265/SD250	LHFP 150/SD250

Accessories ordering details Designation Designation Designation LAPA 45 Angle connection 45° LAPN 1/8 Ni LAPA 90 Angle connection 90° LAPN 1/4 Ni LAPB 3x4E1 3) Brush 30 × 40 mm LAPN 1/2 Ni LAPB 3x7E1 3) Brush 30 × 60 mm LAPN 1/4 UNF Ni LAPB 3x10E1 3) Brush 30 × 100 mm LAPN 3/8 Ni LAPB 5-16E1 3) Elevator brush, 5-16 mm gap LAPN 6 Ni LAPB 5-16E1 3) Brush round Ø20 mm LAPN 8 Ni LAPC 63 Clamp LAPN 8 Ni LAPC 13 Bracket LAPN 8x1 Ni LAPE 35 Extension 35 mm LAPN 10 Ni LAPE 50 Extension 50 mm LAPN 12 Ni LAPF 1/4 Tube connection female 6 1/4 LAPN 12x1.5 Ni LAPF M 1/4 Tube connection male 6 3/8 LAPT 1000 Fle LAPF M 3/8 Tube connection male 6 3/8 LAPV 1/4 No LAPF M 3/8 Tube connection male 6 3/8				
LAPA 45Angle connection 45° LAPN $1/8$ NiLAPA 90Angle connection 90° LAPN $1/4$ NiLAPB $3x4E1^{3}$ Brush 30×40 mmLAPN $1/2$ NiLAPB $3x7E1^{3}$ Brush 30×60 mmLAPN $1/4$ UNFNiLAPB $3x10E1^{3}$ Brush 30×100 mmLAPN $1/4$ UNFNiLAPB $3x10E1^{3}$ Brush 30×100 mmLAPN $3/8$ NiLAPB $3x10E1^{3}$ Elevator brush, $5-16$ mm gapLAPN 6 NiLAPB $3x10E1^{3}$ Brush round $3x10E1^{3}$ LAPN $3x10E1^{3}$ NiLAPC $3x10E1^{3}$ BracketLAPN $3x10E1^{3}$ NiLAPC 13 BracketLAPN $3x10E1^{3}$ NiLAPC 13 BracketLAPN $3x10E1^{3}$ NiLAPE 35 Extension 35 mmLAPN $3x10E1^{3}$ NiLAPE 35 Extension 35 mmLAPN $3x10E1^{3}$ NiLAPF $3x10E1^{3}$ Tube connection female $3x10E1^{3}$ LAPN $3x10E1^{3}$ NiLAPF $3x10E1^{3}$ Tube connection male $3x10E1^{3}$ LAPT $3x10E1^{3}$ NoLAPF $3x10E1^{3}$ Tube connection male $3x10E1^{3}$ LAPV $3x10E1^{3}$ NoLAPF $3x10E1^{3}$ Tube connection	Accessories orde	ering details		
LAPA 90Angle connection 90° LAPN $\frac{1}{4}$ NiLAPB $3x4E1^{3}$ Brush 30×40 mmLAPN $\frac{1}{2}$ NiLAPB $3x7E1^{3}$ Brush 30×60 mmLAPN $\frac{1}{4}$ UNFNiLAPB $3x10E1^{3}$ Brush 30×100 mmLAPN $\frac{3}{8}$ NiLAPB $5-16E1^{3}$ Elevator brush, $5-16$ mm gapLAPN 6 NiLAPB D2 $\frac{3}{8}$ Brush round $\frac{3}{2}$ 0 mmLAPN 8 NiLAPC 63 ClampLAPN 8 NiLAPC 13 BracketLAPN 10 NiLAPC 13 BracketLAPN 10 NiLAPE 35 Extension 35 mmLAPN 10 NiLAPE 50 Extension 50 mmLAPN 12 NiLAPF 14 Tube connection female $6^{1}/4$ LAPN 12 NiLAPF 14 Tube connection male $6^{1}/4$ LAPT 1000 FleeLAPF 14 Tube connection male 14 LAPT 1000 FleeLAPF 14 Tube connection male 14 LAPT 1000 FleeLAPF 14 Tube connection male 14 LAPV 14 NoLAPF 14 Grease nipple 14 LAPV 14 NoLAPG 14 Grease nipple 14 LAPV 14 NoLAPM 14 TLSD $1-8$ NoLAPM 14 TLSD $1-8$ No	Designation	Description	Designation	De
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	LAPA 45	Angle connection 45°	LAPN 1/8	Ni
LAPB $3x7E1^{3}$ Brush 30×60 mmLAPN $\frac{1}{4}$ UNFNiLAPB $3x10E1^{3}$ Brush 30×100 mmLAPN $\frac{3}{8}$ NiLAPB $5-16E1^{3}$ Elevator brush, $5-16$ mm gapLAPN 6 NiLAPB 02^{3} Brush round 020 mmLAPN 8 NiLAPC 63 ClampLAPN $8x1$ NiLAPC 13 BracketLAPN 10 NiLAPE 35 Extension 35 mmLAPN $10x1$ NiLAPE 50 Extension 50 mmLAPN 12 NiLAPF 50 Extension 50 mmLAPN 12 NiLAPF $1/4$ Tube connection female $6^{1}/4$ LAPN $12x1.5$ NiLAPF $1/4$ Tube connection male $1/4$ LAPT 1000 FloLAPF $1/4$ Tube connection male $1/4$ LAPV $1/4$ NoLAPG $1/4$ Grease nipple $1/4$ LAPV $1/4$ NoLAPM $1/4$ LAPV $1/4$ NoLAPM $1/4$ LAPV $1/4$ NoLAPM $1/4$ ConnectionTLSD $1-8$ No	LAPA 90	Angle connection 90°	LAPN 1/4	Ni
LAPB $3\times10E1$ 3 Brush 30×100 mm LAPB $5\times16E1$ 3 Elevator brush, 5×16 mm gap LAPN 6 Ni LAPB $5\times16E1$ 3 Brush round 0×10 mm LAPN 8 Ni LAPC 6×10 Brush round 0×10 mm LAPN 8×11 Ni LAPC 1×10 Bracket LAPN 1×10 Ni LAPE 1×10 Extension 1×10 mm LAPN 1×10 Ni LAPE 1×10 Extension 1×10 mm LAPN 1×10 Ni LAPF 1×10 Tube connection female 1×10 Argued and 1×10 Tube 1×10 Tube connection male 1×10 Argued A	LAPB 3x4E1 3)	Brush $30 \times 40 \text{ mm}$	LAPN 1/2	Ni
LAPB 5-16E1 3 Elevator brush, 5–16 mm gap LAPN 6 Ni LAPB D2 3 Brush round 0 20 mm LAPN 8 Ni LAPC 63 Clamp LAPN 8x1 Ni LAPC 13 Bracket LAPN 10 Ni LAPE 35 Extension 35 mm LAPN 10x1 Ni LAPE 50 Extension 50 mm LAPN 12 Ni LAPF 1 4 Tube connection female 1 4 LAPN 12x1.5 Ni LAPF 1 4 Tube connection male 1 6 LAPT 1000 Flot LAPF M 1 8 Tube connection male 1 9 LAPT 5000 Flot LAPF M 3 8 Tube connection male 3 8 LAPT 5000 Flot LAPG 4 4 Grease nipple 3 9 LAPV 4 4 No LAPO 4 9 Rease nipple 3 9 LAPO 4 9 Rease No LAPO 4 9 Rease nipple 3 9 Rease nipple 4 9 Rease nipple	LAPB 3x7E1 3)	Brush $30 \times 60 \text{ mm}$	LAPN 1/4 UNF	Ni
LAPB D2 3) Brush round Ø20 mm LAPN 8 Ni LAPC 63 Clamp LAPN 8x1 Ni LAPC 13 Bracket LAPN 10 Ni LAPE 35 Extension 35 mm LAPN 10x1 Ni LAPE 50 Extension 50 mm LAPN 12 Ni LAPF 1 4 Tube connection female 1 4 LAPN 12x1.5 Ni LAPF 1 4 Tube connection male 1 6 LAPT 1000 Flow LAPF 1 7 Tube connection male 1 8 LAPT 1000 Flow LAPF 1 9 Tube connection male 1 9 LAPT 5000 Flow LAPF 1 9 Tube connection male 1 9 LAPT 1 9 LAPV 1 9 No LAPG 1 9 Grease nipple 1 9 LAPC 1 9 No LAPM 2 Y-connection	LAPB 3x10E1 3)	Brush $30 \times 100 \text{ mm}$	LAPN 3/8	Ni
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	LAPB 5-16E1 3)	Elevator brush, 5–16 mm gap	LAPN 6	Ni
LAPC 13 Bracket LAPN 10 Ni LAPE 35 Extension 35 mm LAPN 10x1 Ni LAPE 50 Extension 50 mm LAPN 12 Ni LAPF 1/4 Tube connection female G 1/4 LAPN 12x1.5 Ni LAPF M 1/8 Tube connection male G 1/8 LAPT 1000 Flo LAPF M 1/4 Tube connection male G 1/4 LAPT 5000 Flo LAPF M 3/8 Tube connection male G 3/8 LAPV 1/4 No LAPG 1/4 Grease nipple G 1/4 LAPV 1/8 No LAPM 2 Y-connection TLSD 1-BAT Bate	LAPB D2 3)	Brush round Ø20 mm	LAPN 8	Ni
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	LAPC 63	Clamp	LAPN 8x1	Ni
LAPE 50 Extension 50 mm LAPN 12 Ni LAPN 12 Ni LAPF $F^1/_4$ Tube connection female $G^1/_4$ LAPN 12x1.5 Ni LAPF $M^1/_8$ Tube connection male $G^1/_8$ LAPT 1000 Flot LAPF $M^1/_4$ Tube connection male $G^1/_4$ LAPT 5000 Flot LAPF $M^3/_8$ Tube connection male $G^3/_8$ LAPV $M^1/_4$ No LAPG $M^1/_4$ Grease nipple $M^1/_4$ LAPV $M^1/_8$ No LAPM 2 Y-connection TLSD 1-BAT Bases	LAPC 13	Bracket	LAPN 10	Ni
LAPF F 1 /4 Tube connection female G 1 /4 LAPN 12x1.5 Ni LAPF M 1 /8 Tube connection male G 1 /8 LAPT 1000 Flot LAPF M 1 /4 Tube connection male G 1 /4 LAPT 5000 Flot LAPF M 3 /8 Tube connection male G 3 /8 LAPV 1 /4 Not LAPG 1 /4 Grease nipple G 1 /4 LAPV 1 /8 Not LAPM 2 Y-connection	LAPE 35	Extension 35 mm	LAPN 10x1	Ni
LAPF M $^{1}/_{8}$ Tube connection male $^{1}/_{8}$ LAPT 1000 Flow LAPF M $^{1}/_{4}$ Tube connection male $^{1}/_{4}$ LAPT 5000 Flow LAPF M $^{3}/_{8}$ Tube connection male $^{3}/_{8}$ LAPV $^{1}/_{4}$ Note LAPG $^{1}/_{4}$ Grease nipple $^{1}/_{4}$ LAPV $^{1}/_{8}$ Note LAPM 2 Y-connection Table 1 Base 1 B	LAPE 50	Extension 50 mm	LAPN 12	Ni
LAPF M 1 / ₄ Tube connection male G 1 / ₄ LAPT 5000 Flow LAPF M 3 / ₈ Tube connection male G 3 / ₈ LAPV 1 / ₄ Note LAPG 1 / ₄ Grease nipple G 1 / ₄ LAPV 1 / ₈ Note LAPM 2 Y-connection TLSD 1-BAT Bare	LAPF F1/4	Tube connection female G 1/4	LAPN 12x1.5	Ni
LAPF M $^3/_8$ Tube connection male G $^3/_8$ LAPV $^1/_4$ No LAPG $^1/_4$ Grease nipple G $^1/_4$ LAPV $^1/_8$ No LAPM 2 Y-connection TLSD 1-BAT Bare	LAPF M ¹ / ₈	Tube connection male G ¹ / ₈	LAPT 1000	Fle
LAPG 1/4 Grease nipple G 1/4 LAPV 1/8 No LAPM 2 Y-connection TLSD 1-BAT Bate	LAPF M 1/4	Tube connection male G ¹ / ₄	LAPT 5000	Fle
LAPM 2 Y-connection TLSD 1-BAT Ba	LAPF M ³ / ₈	Tube connection male G ³ / ₈	LAPV 1/4	No
	LAPG ¹ / ₄	Grease nipple G 1/4	LAPV 1/8	No
TLSD 1-BATC Lit	LAPM 2	Y-connection	TLSD 1-BAT	Ba
			TLSD 1-BATC	Lit

Designation	Description
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 $G^{1}/_{4}$ – $M8 \times 1$
LAPN 10	Nipple G ¹ / ₄ – M10
LAPN 10x1	Nipple $G^{1/4}$ – $M10 \times 1$
LAPN 12	Nipple G ¹ / ₄ – M12
LAPN 12x1.5	Nipple $G^{1/4}$ – $M12 \times 1,5$
LAPT 1000	Flexible tube, 1 000 mm long, 8 x 6 mm
LAPT 5000	Flexible tube, 5 000 mm long, 8 x 6 mm
LAPV 1/4	Non-return valve G ¹ / ₄
LAPV 1/8	Non-return valve G ¹ / ₈
TLSD 1-BAT	Battery pack
TLSD 1-BATC	Lithium battery pack

- 1) TLSD lubricator and SD refill sets are not for offer/sale/use in Germany, France or United States.
- 2) Special version for low temperatures.
- 3) Suitable for use with oil filled TLSD only.

® SKF is a registered trademark of the SKF Group.

© SKF Group 2013

The contents of this publication are the copyright of the publisher and may not be reproduced (even extracts) unless prior written permission is granted. Every care has been taken to ensure the accuracy of the information contained in this publication but no liability can be accepted for any loss or damage whether direct, indirect or consequential arising out of the use of the information contained herein.

