

Manual lubrication



A basic element of lubrication plans







The main pitfall of manual lubrication is ensuring accuracy and top cleanliness. Lubricant film in the application can be over 40 times thinner than the smallest visible particle. The SKF range of manual lubrication tools is designed to help you with the storage, handling, dosing and supplying of lubricants for your machinery in a clean and easy way.

A comprehensive range to meet your needs

SKF Grease Guns

SKF Grease Guns are suitable for agricultural, industrial, automotive and construction industries amongst others. Except for the SKF LAGP 400, which is designed for emptying cartridges only, all of them are equipped with a grease filling fitting. This fitting enables the use of SKF Grease Filler Pumps to refill the guns with loose grease, thus keeping contaminants out of the grease.

Selection chart and technical data – SKF Grease Guns

						
Designation	LAGP 400	TLGH 1	1077600	1077600/SET	LAGH 400	LAGG 400B and LAGG 400B/US
Drive	Manual	Manual	Manual	Manual	Manual One hand	Battery LAGG 400B (230 V charger) LAGG 400B/US (110 V charger)
Maximum pressure		400 bar (5 800 psi)	400 bar (5 800 psi)	400 bar (5 800 psi)	300 bar (4 350 psi)	400 bar (5 800 psi) Min. burst pressure: 800 bar (11 600 psi)
Volume per stroke	20 cm ³ (1.2 in. ³)	Approx. 0,9 cm ³ (0.05 in. ³)	Approx. 1,5 cm ³ (0.09 in. ³)	Approx. 1,5 cm ³ (0.09 in. ³)	Approx. 0,8 cm ³ (0.05 in. ³)	Approx. 400 g (0.9 lb)/10 min
Weight	0,35 kg (12 oz)	1,5 kg (3.3 lb)	1,5 kg (3.3 lb)	Complete: 2,3 kg (5.1 lb)	1,2 kg (2.6 lb)	Grease gun Including battery 3,1 kg (6,8 lb)
Reservoir	Suitable for the SKF grease cartridges.	Loose grease (ca. 500 cm ³) or grease cartridges.	Loose grease (ca. 500 cm ³) or grease cartridges.	Loose grease (ca. 500 cm ³) or grease cartridges.	Loose grease (ca. 500 cm ³) or grease cartridges.	Loose grease (ca. 500 cm ³) or grease cartridges.
Discharge pipe length	–	175 mm (6.9 in.)	175 mm (6.9 in.) 1077600 H: 300 mm (12 in.)	175 mm (6.9 in.)	300 mm (12 in.)	750 mm (29.5 in.)
Accessories	–	1077601	1077601	1077601	1077601	–
Notes	Three spout caps included			Set includes: Extension pipe, Snap-on high pressure hose, Snap-on extension pipe with cardan nozzle, Snap-on extension pipe for flat-head grease fittings (Ø16 mm), Female and pointed nozzle		Supplied with carrying strap. Operating temperature range: –15 to +50 °C (5 to 120 °F)

Note: 1077601: Flexible 500 mm (19.7 in.) long pressure hose with hydraulic gripping nozzle.



Optimum cleanliness when filling your grease guns

SKF Grease Filler Pumps LAGF series

Best lubrication practices say that each type of grease requires an individual grease gun and the refilling has to be a clean process. SKF Grease Filler Pumps are designed to help achieve this goal.

- Quick filling: low pressure high stroke volume
- Easy installation: all necessary items are included
- Reliable: tested and approved for all SKF greases
- Appropriate as a complement for SKF Bearing Packer VKN 550

Technical data

Designation	LAGF 18	LAGF 50
Maximum pressure	30 bar (430 psi)	30 bar (430 psi)
Volume/stroke	approx. 45 cm ³ (1.5 US fl. oz)	approx. 45 cm ³ (1.5 US fl. oz)
Suitable drum dimensions:		
inside diameter	265–285 mm (10.4–11.2 in.)	350–385 mm (13.8–15.2 in.)
maximum inside height	420 mm (16.5 in.)	675 mm (26.6 in.)
Weight	5 kg (11 lb)	7 kg (15 lb)

Contamination free grease filling

SKF Bearing Packer VKN 550

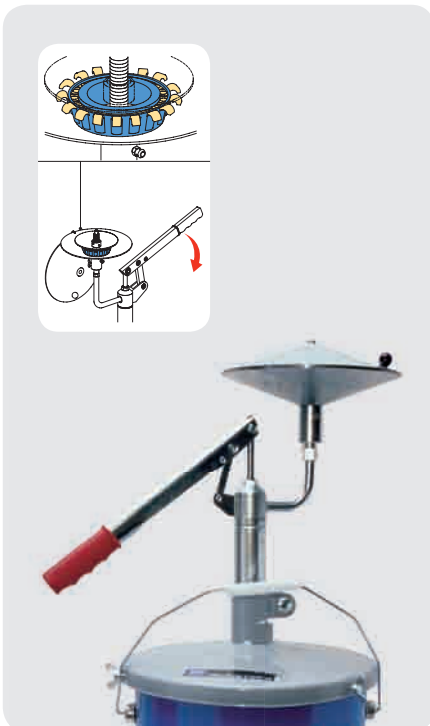
The sturdy and easy-to-use SKF Bearing Packer VKN 550 is designed to completely fill open bearings such as tapered roller bearings. They can be used with a standard grease gun, air-operated grease pump or grease filler pump.

- Flushes the grease right between the rolling elements
- Closed system: the cover lid prevents ingress of dirt

Note: Most suitable in conjunction with SKF Grease Filler Pumps LAGF Series

Technical data

Designation	VKN 550
Bearing range:	
inner diameter (d)	19 to 120 mm (0.7 to 4.7 in.)
outer diameter (D)	max. 200 mm (7.9 in.)





Accurate grease quantity measurement

SKF Grease Meter LAGM 1000E

The amount delivered per stroke by grease guns depends on many variables. It is generally difficult to supply an accurate quantity of grease when manually lubricating bearings. The right amount of grease, however, is critical for the bearings' service life, as over- or under-greasing can result in machine breakdown. Although a common practice is to weigh the grease per stroke, this procedure does not consider the backpressure, the ongoing wear inside the grease gun or any other variables.

The SKF Grease Meter LAGM 1000E accurately measures grease discharge in volume or weight in metric (cm^3 or g) or US units (US fl. oz or oz), making conversion calculations unnecessary.

- Suitable for most NLGI 0-3 greases
- A rubber sleeve protects the electronics in case of impact and is also oil and grease resistant
- The backlit LCD displays large and clear-to-read digits
- Maximum pressure of 700 bar (10 000 psi)
- Small, compact and lightweight design
- Corrosion-free aluminium housing
- Fits with all SKF grease guns



Technical data

Designation	LAGM 1000E
Housing material	Aluminium, anodised
Weight	0,3 kg (0.66 lb)
IP rating	IP 67
Suitable greases	NLGI 0 to NLGI 3
Maximum operating pressure	700 bar (10 000 psi)
Maximum grease flow	1 000 cm^3/min (34 US fl. oz/min)
Thread connections	M10x1
Display	Lit LCD (4 digits / 9 mm)
Accuracy	$\pm 3\%$ from 0 to 300 bar $\pm 5\%$ from 300 to 700 bar
Selectable units	cm^3 , g, US fl. oz or oz
Display lamp auto switch off	15 seconds after last pulse
Battery type	2 x 1,5 V Alkaline type LR1
Unit auto switch off	Programmable



For high volume requirements

SKF Grease Pumps LAGG series

SKF manual and air-operated grease pumps are designed to supply large amounts of grease. This is useful when large housings have to be filled or when numerous points have to be lubricated. They are also suitable for topping up centralised lubrication systems reservoirs.

- Full range: pumps available for 18, 50 or 180 kg (39, 110 or 400 lb) grease drums
- High pressure: maximum of 420 bar (6 090 psi) for air-driven models
- Reliable: tested and approved for SKF greases
- Easy and ready to install
- 3,5 m (11.5 ft) of tubing included



LAGG 18M

LAGG 18AE

LAGG 50AE

LAGG 180AE

LAGT 180

Technical data

Designation	LAGG 18M	LAGG 18AE	LAGG 50AE	LAGG 180AE	LAGT 180
Description	Grease pump for 18 kg (39.6 lb) drums	Mobile grease pump for 18 kg (39.6 lb) drums	Grease pump for 50 kg (110 lb) drums	Grease pump for 180 kg (396 lb) drums	Trolley for drums up to 200 kg (440 lb)
Power source	Manual	Air-pressure	Air-pressure	Air-pressure	n.a.
Max. pressure	500 bar (7 250 psi)	420 bar (6 090 psi)	420 bar (6 090 psi)	420 bar (6 090 psi)	n.a.
Suitable drum	265–285 mm (10.4–11.2 in.)	265–285 mm (10.4–11.2 in.)	350–385 mm (13.8–15.2 in.)	550–590 mm (21.7–23.2 in.)	n.a.
Mobility	Stationary	Mobile	Stationary	Stationary	Mobile
Maximum flow rate	1,6 cm ³ /stroke (0.05 US fl. oz)	200 cm ³ /min. (6.8 US fl. oz)	200 cm ³ /min. (6.8 US fl. oz)	200 cm ³ /min. (6.8 US fl. oz)	–
Suitable grease NLGI class	000–2	0–2	0–2	0–2	–



Renew or upgrade your equipment

SKF Grease Nozzles LAGS 8

The SKF Grease Nozzles LAGS 8 kit provides practical accessories for daily lubrication, such as connectors, couplings and nozzles that are most widely used in the industry.

Technical data

Designation	LAGS 8
Maximum working pressure	400 bar (5 800 psi)
Minimum burst pressure	800 bar (11 600 psi)

Kit contents

Straight pipe 180 mm and nozzle (DIN 71412)	1x
Hose with nozzle (DIN 71412)	1x
Tube with nozzle for bottom head grease fittings (DIN 3404)	1x
Tube with nozzle for Flush type grease fittings and plastic transparent cover (DIN 3405)	1x
Grease fitting M10x1-G ¹ / ₈	1x
Grease fitting M10x1- ¹ / ₈ -27NPS	1x
Nozzle (DIN 71412)	2x



The link to your lubrication points

SKF Grease Nipples LAGN 120

The LAGN 120 grease fitting kit contains a full range of 120 standardised conical grease fittings made of precision steel, zinc plated, hardened and blue chromated.

Technical data

Designation	LAGN 120
Maximum working pressure	400 bar (5 800 psi)
Minimum burst pressure	800 bar (11 600 psi)

Kit contents

Grease fitting type	Quantity	Grease fitting type	Quantity
M6x1 straight	30x	M10x1 45°	5x
M8x1 straight	20x	G ¹ / ₈ 45°	5x
M10x1 straight	10x	M6x1 90°	5x
G ¹ / ₈ straight	10x	M8x1 90°	10x
M6x1 45°	5x	M10x1 90°	5x
M8x1 45°	10x	G ¹ / ₈ 90°	5x



Proper identification of your lubrication points

SKF Grease fitting caps and tags TLAC 50

In conjunction with the SKF Lubrication Planner software, grease fitting caps and tags offer a complete solution to protect lubrication fittings from external contamination and simultaneously allow for proper identification.

Technical data

Description	Value
Label dimensions	45 × 21 mm (1.8 × 0.8 in.)
Material	LLDP + 25% EVA
Temperature range	from -20 to +80 °C (-5 to +175 °F)
Suitable for grease fitting sizes	G ¹ / ₄ , G ¹ / ₈ , M6, M8, M10 and grease fitting head

Kits contents

Kit designation	Description
TLAC 50/B	50 blue caps and tags + 2 printable stickers sheets
TLAC 50/Y	50 yellow caps and tags + 2 printable stickers sheets
TLAC 50/R	50 red caps and tags + 2 printable stickers sheets
TLAC 50/G	50 green caps and tags + 2 printable stickers sheets
TLAC 50/Z	50 black caps and tags + 2 printable stickers sheets
TLAT 10	10 printable stickers sheets



Skin protection when handling grease

SKF Disposable Grease Resistant Gloves TMBA G11D

SKF TMBA G11 D gloves are specially designed to protect skin when working with lubricants. The gloves are packed in a handy box containing 50 pairs.

- Non-powdered nitrile rubber gloves
- Tight fitting for precision wear
- Excellent resistance against lubricants
- Non-allergenic

Technical data

Designation	TMBA G11D
Pack size	50 pairs
Size	9
Colour	blue



A proper solution for oil handling

Oil handling containers LAOS series

LAOS series is comprised of an extensive assortment of drums and dispensing lids ideal for the storage and administration of fluids and oil lubricants. The lids are available in ten different colours to fit colour coded identification systems.

- Enables easier, safer and cleaner lubrication
- Allows for accurate oil consumption control
- Improves health and safety due to oil spillage minimisation
- Heat and chemically resistant
- Drum and lid threads provide tight, quick and easy assembly
- Quick closing spouts
- Vacuum valve for enhanced spilling control



Mini spout

Ideal where the reservoirs to be filled have small filling holes. Outlet diameter is approx. 7 mm (0.28 in.)



Stretch spout

Ideal for precise pouring tasks and difficult to access points. The 12 mm (0.48 in.) outlet is ideal for viscosities up to ISO VG 220.



Stumpy spout

Due to the wide opening of 25 mm (1 in.), ideal for high viscosities and/or when a high flow is required.



Utility lid

Two main uses: Quick pouring if necessary and assembly of pump onto a 3, 5 or 10 L drum (0.8, 1.3 or 2.6 US Gal).



Storage lid

Useful for storage or transportation of oils.

Contents label

For proper marking of drum contents

LAOS series lids

Colour	Mini spout	Stretch spout	Stumpy spout	Utility lid	Storage lid	Contents label
Tan	LAOS 09057	LAOS 09682	LAOS 09705	LAOS 09668	LAOS 09644	LAOS 06919
Grey	LAOS 09064	LAOS 09699	LAOS 09712	LAOS 09675	LAOS 09651	LAOS 06964
Orange	LAOS 09088	LAOS 09798	LAOS 09729	LAOS 09866	LAOS 09934	LAOS 06940
black	LAOS 09095	LAOS 09804	LAOS 09736	LAOS 09873	LAOS 09941	LAOS 06995
dark green	LAOS 09101	LAOS 09811	LAOS 09743	LAOS 09880	LAOS 09958	LAOS 06971
green	LAOS 09118	LAOS 09828	LAOS 09750	LAOS 09897	LAOS 09965	LAOS 06957
blue	LAOS 09125	LAOS 09835	LAOS 09767	LAOS 09903	LAOS 09972	LAOS 06988
red	LAOS 09132	LAOS 09842	LAOS 09774	LAOS 09910	LAOS 09989	LAOS 06926
purple	LAOS 09071	LAOS 09392	LAOS 09388	LAOS 09408	LAOS 09415	LAOS 06933
yellow	LAOS 09194	LAOS 62437	LAOS 64936	LAOS 62451	LAOS 62475	LAOS 06902



Drums

Designed with wide necks and a standard thread size. Fits any LAOS lid. Available in 5 different sizes.



Pump

Suitable for viscosities up to ISO VG 680. High flow (approx. 14 strokes per litre/US quart) Long discharge hose of 1,5 m (4.9 ft) and anti-drip nozzle. Reducer nozzle is available.



Hose extensions

Designed to extend the reach of the lids. Two different versions available for stumpy and stretch lids. The stretch version's length can be adjusted by removing the fitting and cutting it down to the desired size.

LAOS series drums, pumps and spouts

Drums		Pump		Hose extensions	
LAOS 09224	1,5 litre drum (0,4 US gal)	LAOS 62567	Pump (to fit LAOS utility lids)	LAOS 67265	Stumpy spout hose extension
LAOS 63571	2 litre drum (0,5 US gal)	LAOS 09422	Pump reducer nozzle	LAOS 62499	Stretch spout hose extension
LAOS 63595	3 litre drum (0,8 US gal)				
LAOS 63618	5 litre drum (1,3 US gal)				
LAOS 66251	10 litre drum (2,6 US gal)				



Lubrication analysis tools



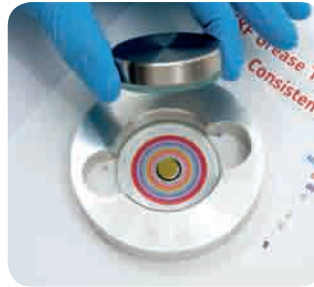
Portable grease analysis kit for field use

SKF Grease Test Kit TKG1

Lubricant analysis is a vital part of a predictive maintenance strategy. Until recently, however, oils were almost always analysed despite the fact that around 80% of bearings are lubricated with grease. Tribology expertise and years of research have allowed SKF to develop a complete methodology to assess grease condition.

- Extremely useful in field decision-making processes
- Allows adjustment of grease relubrication intervals according to real conditions
- Grease can be evaluated to detect possible unacceptable deviations from batch to batch
- Allows verification of the suitability of certain greases in specific applications
- Helps in the prevention of damage due to underperforming lubricant greases
- Provides more information on root cause analysis
- Requires no special training to perform the tests
- Requires no harmful chemicals
- Small sample sizes required. Only 0,5 g of grease is needed to perform all the tests

Consistency test (Patent applied for)



Oil bleeding characteristics



Contamination evaluation



Technical data

Designation TKG1

Parts	Components	Quantity	Specifications
Sampling tools	Sampling syringe	1	Polypropylene
	Sampling tube	1	PTFE, length approx. 1 m
	Permanent marker	1	Black
	Sampling containers	10	35 ml polyethylene
	Gloves	10 pairs	Grease resistant nitrile (synthetic rubber), powder free, size XL, colour blue
	Disposable spatulas	1	Set of 25
	250 mm stainless steel spatula	1	Stainless steel
	150 mm stainless steel spatula	1	Stainless steel
	Scissors	1	Stainless steel
Consistency test	Housing	1	Aluminium
	Weight	1	Stainless steel
	Mask	1	Plexiglas
	Glass plates	4	
Oil bleeding test	USB heater	1	2,5 W–5 V
	USB/220/110 V adaptor	1	Universal (EU, US, UK, Australia) to USB
	Paper pack	1	Contains 50 sheets
	Ruler	1	Aluminium graduated 0,5 mm
Contamination test	Pocket microscope	1	60–100x with light
	Batteries	2	AAA
Carrying case	CD	1	Contains instructions for use, report template, and consistency test scale
	Carrying case	1	Dimensions: 463 × 373 × 108 mm (18.2 × 14.7 × 4.25 in.)



Note

The SKF Oil Check Monitor is not an analytical instrument. It is an instrument to only detect changes in the oil condition. The visual and numerical read-outs are merely a guide to enable trending of the comparative readings of a good oil to a used oil of the same type and brand. Do not rely solely on numerical readings.

Quick detection of oil condition changes

SKF Oil Check Monitor TMEH 1

The SKF TMEH 1 measures the changes in dielectric constant of an oil sample. By comparing measurements obtained from used and fresh samples of the same oil, the degree of change in the condition of the oil is established.

Dielectric change is directly related to the oil's degradation and contamination level. The monitor allows tracking of mechanical wear and of any loss of the oil's lubricating properties.

- Hand-held and user friendly
- Numerical readout to facilitate trending
- Can store calibration (good oil) in its memory
- Shows changes in oil condition affected by such things as:
 - Water content
 - Fuel contamination
 - Metallic content
 - Oxidation

Technical data

Designation	TMEH 1
Suitable oil types	mineral and synthetic oils
Repeatability	±5%
Readout	green/red grading + numerical value (–999 to +999)
Battery	9 V Alkaline type IEC 6LR61
Battery lifetime	>150 hours or 3 000 tests
Dimensions	250 × 95 × 32 mm (9.8 × 3.7 × 1.3 in.) (instrument)