SKF Automatic Lubricators

Automatic lubricators deliver safety, reliability and efficiency
Manual lubrication vs. automatic lubrication

Performing manual lubrication tasks can be challenging due to the vast number of lubrication points throughout a factory. Also, most of these points have varying lubrication requirements. Utilising automatic lubricators is one solution that can improve worker safety and increase machine reliability.

Reduce the risks of failure

- Over-greased = overheating, waste and pollution
- Optimal lubrication
- Under-greased = wear, premature repairs, high repair costs

Challenges associated with manual lubrication

Manual lubrication tasks can be complex and inconvenient, often requiring equipment shutdown. Manual lubrication on difficult-to-access lubrication points also can increase the possibility of worker injury and take your valuable human resources away from other tasks.

Improper manual lubrication can be a factor in creating additional challenges. Failure to lubricate every lubrication point regularly can have a negative effect on equipment reliability, production schedules and maintenance efficiency. Other results of improper manual lubrication can be lubricant waste, environmental issues, increased energy consumption and finished product spoilage due to contamination of lubricant.

Benefits of using automatic lubricators

A lubricator is designed to automatically supply a small quantity of clean grease or oil to a lubrication point on a regular basis, thus improving bearing performance. Key benefits of using an automatic lubricator are improved employee safety, increased machine reliability and optimized maintenance operations.

SKF SYSTEM 24 lubricators are suitable for a variety of applications but often are used on pumps, electric motors, fans, blowers, conveyors and chains. They can be adjusted to ensure that the correct quantity of lubricant is delivered to the lubrication point during a predetermined period of time. This provides a more accurate control of the amount of lubricant supplied, when compared to traditional manual lubrication techniques.
Improving employee safety

Use of SKF SYSTEM 24 lubricators can have a positive impact on workplace safety because technicians can spend less time in confined spaces, with safety cages or guards removed, and on rooftop or elevated lubrication tasks.

Lubrication point behind safety guards
Safety cages and guards are utilised for a reason - to protect workers and others from injury caused by moving parts. By reducing the amount of time these implements are not in place, SKF SYSTEM 24 lubricators increase safety and eliminate the need to manually lubricate difficult-to-access lubrication points.

Elevated lubrication point
Lubrication points on rooftops or other high elevations can create a significant challenge, and the safety implications are evident. Due to apprehension, these lubrication points often are not lubricated properly and equipment reliability suffers.

Manual handling of lubricants
Improper handling of loose lubricant can expose technicians to chemicals. By eliminating manual handling of lubricant, SKF SYSTEM 24 lubricators reduce the potential for chemical exposure of workers.
Machine reliability

The importance of lubrication often is overlooked due to its underestimated impact on equipment total cost of ownership. However, machine reliability can be enhanced substantially with proper lubrication. As the leading supplier of bearings worldwide, SKF has conducted extensive research and determined that up to 50 percent of premature bearing failures are due to either improper lubrication practices or contamination.

Premature bearing failure
Approximately 36 percent of premature bearing failures are due to improper lubrication, such as too much, too little or the wrong type of lubricant. Another 14 percent of bearing failures occur because of contamination via poor seals or lubricant handling practices.

Clean, fresh lubricant
A continuous supply of clean, fresh grease or oil is essential when lubricating equipment. SKF SYSTEM 24 lubricators feature high quality SKF lubricants in a water- and dust-resistant design.

Positive pressure
Positive pressure prevents contaminants from entering the bearing through the seal. SKF SYSTEM 24 lubricators can provide fresh lubricant and purge seals of smaller-sized bearings operating at lower speeds, while larger bearings may benefit from a separate lubricator for lubrication and seal purging.

Missed lubrication points
With manual lubrication, it is difficult and time consuming to find every lubrication point. Use of SKF SYSTEM 24 lubricators helps to ensure that each point is receiving the proper amount of lubricant on a set schedule.
Supporting effective maintenance

The use of automatic lubricators can have a large impact on effective maintenance. The most significant benefits usually are found in the reduction of unplanned downtime, machine repair costs, labor and lubricant consumption.

Cost savings of automatic lubrication
Based on numerous case studies, the illustration at left represents a comparison of manual vs. automatic lubrication. The results show improvement in all areas when using automatic lubrication with the most significant found in the reduction of downtime and repair costs.

Improved machine reliability
Using an SKF SYSTEM 24 lubricator provides increased machine reliability and, therefore, reduces unplanned downtime.

Increased productivity
Because automatic lubricators deliver lubricant while the equipment is in operation, there is less scheduled downtime and more productivity.

Better use of personnel
Automatic lubrication enables workers to focus on more value-added tasks, such as machine inspection.

Lower cost of ownership
Improved equipment reliability and performance means lower machine repair costs.
SKF SYSTEM 24

Gas driven single point automatic lubricators

SKF LAGD series

The units are supplied ready-to-use straight from the box and filled with a wide range of high performance SKF lubricants. Tool-free activation and time-setting allow easy and accurate adjustment of lubrication flow.

- Flexible dispense rate from 1 to 12 months
- Stoppable or adjustable if required
- Intrinsic safety rating: ATEX approved for zone 0
- Transparent lubricant container allows visual inspection of dispense rate
- Compact size, permits installation in restrictive areas
- Greases and chain oils available

**Typical applications**
- Applications in restrictive and hazardous locations
- Bearing housing lubrication
- Electric motors
- Fans and pumps
- Conveyors
- Cranes
- Chains (oil)
- Elevators and escalators (oil)

SKF DialSet helps to calculate the correct dispense rate.

**Easy-grip top-cover**
Specially designed top ring for an optimum grip

**Gas cell**
Detachable batteries for an environmentally friendly disposal

**Lubricant container**
Transparent lubricant container allows visual inspection of dispense rate

**Toolless dial**
Allows easy and accurate adjustment of flow rate

**Piston**
Special piston shape helps ensure optimum emptying of lubricator

**SKF Lubricants**
Filled with high quality SKF lubricants
Designation LAGD 60 and LAGD 125

Grease capacity
- LAGD 60
  - LAGD 60
  - LAGD 60
- Nominal emptying time
  - Adjustable; 1–12 months
- Ambient temperature range
  - LAGD 60/.. and LAGD 125/..
  - –20 to +60 °C (–5 to +140 °F)
- Maximum operating pressure
  - 5 bar (75 psi) (at start-up)
- Drive mechanism
  - Gas cell producing inert gas
- Connection thread
  - R 1/4
- Maximum feed line length with:
  - grease
    - 300 mm (11.8 in.)
  - oil
    - 1 500 mm (59.1 in.)

Intrinsically safe approval
- LAGD 60
  - II 1 G Ex ia IICT6 Ga
  - II 1 D Ex ia IIICT85°C Da
  - I M1 Ex ia I Ma
- LAGD 125
  - II 1 D Ex ia IIICT85°C Da
  - I M1 Ex ia I Ma

EC Type Examination Certificate
- Kema 07ATEX0132 X
- IP 68

Protection class
- Food grade
- (NSF H1) oil

Recommended storage temperature
- 20 °C (70 °F)

Storage life of lubricator
- 2 years

Weight
- LAGD 125 approx 200 g (7.1 oz)
- LAGD 60 approx 130 g (4.6 oz)

Lubricant included
- LGWA 2
  - Multi-purpose
  - EP type grease
- LGEM 2
  - High loads, slow rotations
- LGGB 2
  - Biodegradable
- LGHB 2
  - High temperature and loads, plain bearings
- LGHP 2
  - High performance polyurea
- LGFP 2
  - Food processing industry
- LGWM 2
  - High load, wide temperature
- LGFQ 2
  - High load and wide temperature food grade

Technical data

Ordering details

<table>
<thead>
<tr>
<th>Grease</th>
<th>LGWA 2</th>
<th>LGEM 2</th>
<th>LGGB 2</th>
<th>LGHB 2</th>
<th>LGHP 2</th>
<th>LGFP 2</th>
<th>LGWM 2</th>
<th>LGFQ 2</th>
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</thead>
<tbody>
<tr>
<td>Unit 60 ml</td>
<td>LAGD 60/WA2</td>
<td>LAGD 60/EM2</td>
<td>–</td>
<td>LAGD 60/HB2</td>
<td>LAGD 60/HP2</td>
<td>LAGD 60/FP2</td>
<td>–</td>
<td>–</td>
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<tr>
<td>Unit 125 ml</td>
<td>LAGD 125/WA2</td>
<td>LAGD 125/EM2</td>
<td>LAGD 125/GB2</td>
<td>LAGD 125/HB2</td>
<td>LAGD 125/HP2</td>
<td>LAGD 125/FP2</td>
<td>LAGD 125/WM2</td>
<td>LAGD 125/FQ2</td>
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</table>

Chain oils

<table>
<thead>
<tr>
<th>Description</th>
<th>LHMT 68</th>
<th>LHHT 265</th>
<th>LFFM 80</th>
<th>LHFP 150</th>
<th>LFFT 220</th>
<th>–</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit 60 ml</td>
<td>LAGD 60/HMT68*</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Unit 125 ml</td>
<td>LAGD 125/HMT68*</td>
<td>LAGD 125/HHT26*</td>
<td>LAGD 125/FFM80*</td>
<td>LAGD 125/HFP15*</td>
<td>LAGD 125/FHT22*</td>
<td>LAGD 125/U*</td>
</tr>
</tbody>
</table>

* Includes non-return valve

Note: If ambient temperature is constant between 40 °C and 60 °C (105 °F and 140 °F), do not select a setting of more than 6 months for optimum performance.

LGHP 2 should not be used with ambient temperatures over 40 °C (105 °F) or have a time setting longer than 6 months.
Electro-mechanical single point automatic lubricators

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
- 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 battery pack available 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.

A The unit can be programmed to dispense lubricant in 1, 2, 3, 4, 6, 8, 9, 10 and 12 month settings.

B The same drive unit can be used with both cartridge versions by simply adjusting the 125/250 ml switch.

C 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 some action will be required. Yellow light serves as a pre-warning light.
  - Red light: The lubricator stopped operating.
## Ordering details

<table>
<thead>
<tr>
<th>Grease</th>
<th>LGWA 2</th>
<th>LGEM 2</th>
<th>LGHB 2</th>
<th>LGHP 2</th>
<th>LGFP 2</th>
<th>LGWM 2</th>
<th>LGFQ 2</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>High load, extreme pressure, wide temperature range</td>
<td>High viscosity bearing grease with solid lubricants</td>
<td>High load, high temperature, high viscosity</td>
<td>High performance, high temperature</td>
<td>Food compatible NSF H1 certified</td>
<td>High load, wide temperature</td>
<td>High load and wide temperature food grade</td>
</tr>
<tr>
<td><strong>Complete unit 125</strong></td>
<td>TLSD 125/ WA2</td>
<td>TLSD 125/ EM2</td>
<td>TLSD 125/ HB2</td>
<td>TLSD 125/ HP2</td>
<td>TLSD 125/ FP2</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td><strong>Complete unit 250</strong></td>
<td>TLSD 250/ WA2</td>
<td>TLSD 250/ EM2</td>
<td>TLSD 250/ HB2</td>
<td>TLSD 250/ HP2</td>
<td>TLSD 250/ FP2</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td><strong>Refill set 125</strong></td>
<td>LGWA 2/ SD125</td>
<td>LGEM 2/ SD125</td>
<td>LGHB 2/ SD125</td>
<td>LGHP 2/ SD125</td>
<td>LGFP 2/ SD125</td>
<td>LGWM 2/ SD125</td>
<td>LGFQ 2/ SD125</td>
</tr>
<tr>
<td><strong>Refill set 250</strong></td>
<td>LGWA 2/ SD250</td>
<td>LGEM 2/ SD250</td>
<td>LGHB 2/ SD250</td>
<td>LGHP 2/ SD250</td>
<td>LGFP 2/ SD250</td>
<td>LGWM 2/ SD250</td>
<td>LGFQ 2/ SD250</td>
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## Chain oils

<table>
<thead>
<tr>
<th>Chain oils</th>
<th>LHMT 68</th>
<th>LHHT 265</th>
<th>LHF 150</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>Medium temperature oil</td>
<td>High temperature oil</td>
<td>Food compatible, NSF H1 approved oil</td>
</tr>
<tr>
<td><strong>Complete unit 125</strong></td>
<td>TLSD 125/HMT68</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td><strong>Complete unit 250</strong></td>
<td>TLSD 250/HMT68</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td><strong>Refill set 125</strong></td>
<td>LHMT 68/ SD125</td>
<td>LHHT 265/ SD125</td>
<td>LHF 150/ SD125</td>
</tr>
<tr>
<td><strong>Refill set 250</strong></td>
<td>LHMT 68/ SD250</td>
<td>LHHT 265/ SD250</td>
<td>LHF 150/ SD250</td>
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</tbody>
</table>

## Technical data

<table>
<thead>
<tr>
<th>Designation</th>
<th>TLSD 125 and TLSD 250</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Grease capacity</strong></td>
<td>125 ml (4.2 US fl. oz) 250 ml (8.5 US fl. oz)</td>
</tr>
<tr>
<td><strong>Emptying time</strong></td>
<td>User adjustable: 1, 2, 3, 4, 6, 8, 9, 10 and 12 months</td>
</tr>
<tr>
<td><strong>Lowest grease purge</strong></td>
<td>0.3 ml (0.01 US fl. oz) per day 0.7 ml (0.02 US fl. oz) per day</td>
</tr>
<tr>
<td><strong>Highest grease purge</strong></td>
<td>4.1 ml (0.13 US fl. oz) per day 8.3 ml (0.28 US fl. oz) per day</td>
</tr>
<tr>
<td><strong>Ambient temperature range</strong></td>
<td>0 to 50 °C (30 to 120 °F) –10 to +50 °C (15 to 120 °F)</td>
</tr>
<tr>
<td><strong>Maximum operating pressure</strong></td>
<td>5 bar (75 psi)</td>
</tr>
<tr>
<td><strong>Drive mechanism</strong></td>
<td>Electro mechanical</td>
</tr>
<tr>
<td><strong>Connection thread</strong></td>
<td>G1/4</td>
</tr>
<tr>
<td><strong>Maximum feed line length with:</strong></td>
<td>Up to 3 meters (10 ft) 2) Up to 5 meters (16 ft)</td>
</tr>
</tbody>
</table>

1) TLSD lubricator and SD refill sets are not for offer/sale/use in Germany, France or United States until December 2017.
2) The maximum feed line length is dependent on ambient temperature, grease type and back pressure created by the application.
3) 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.
Electro-mechanical single point automatic lubricators

**SKF TLMR series**

The SKF Automatic Lubricant Dispenser – TLMR – is a single point automatic lubricator designed to supply grease to a single lubrication point. With a relatively high pressure of 30 bars, this lubricator can operate at long distances providing optimum results with difficult-to-reach and unsafe lubrication locations. With a wide temperature range and robust design, the TLMR lubricator is suitable for operating conditions with various levels of temperature and vibration.

- Filled with high quality SKF greases
- Temperature independent dispense rate
- Extended time setting up to 24 months
- Maximum discharge pressure of 30 bar over the whole dispensing period
- Available in two versions: TLMR 101 powered by batteries (standard Lithium AA type) and TLMR 201 powered by 12–24 V DC
- Available with non-refillable cartridges in two sizes: 120 and 380 ml

**Typical applications**

- Applications requiring high lubricant consumption
- Applications experiencing high vibration in operation
- Excellent water and dust protection makes TLMR suitable for general machinery applications and food processing machinery
- Excellent high temperature performance makes TLMR suitable for engine rooms and hot fan applications
- Excellent low temperature performance makes TLMR suitable for wind turbine applications

SKF DialSet helps to calculate the correct dispense rate.

Each TLMR is supplied with a strong mounting bracket as standard. The bracket enables the TLMR to be easily mounted on a flat surface.

For ease of use, cartridges are easily exchanged by simply screwing them into the lubricator.
**Designation TLMR 101 and TLMR 201**

**Grease capacity**
- 120 ml: 120 ml (4.1 US fl. oz)
- 380 ml: 380 ml (12.8 US fl. oz)

**Emptying time**
- User adjustable: 1, 2, 3, 6, 9, 12, 18, 24 months or purge

**Lowest setting**
- 120 ml cartridge: 0.16 ml (0.005 US fl. oz) per day
- 380 ml cartridge: 0.5 ml (0.016 US fl. oz) per day

**Highest setting**
- 120 ml cartridge: 3.9 ml (0.13 US fl. oz) per day
- 380 ml cartridge: 12.5 ml (0.42 US fl. oz) per day

**Purge**
- 31 ml (1 US fl. oz) per hour

**Ambient temperature range**
- −25 to +70 °C (−13 to +158 °F)

**Maximum operating pressure**
- 30 bar (435 psi)

**Drive mechanism**
- Electro mechanical

**Connection thread**
- G ¼ female

**Maximum feed line length**
- Up to 5 meters (16 ft)

**LED status indicators**
- Green LED (every 8 sec)
- Green and red LED (every 8 sec)
- Red LED (every 8 sec)
- OK
- Almost empty
- Error

**Protection class**
- IP 67
- IP 6k9k

**Power**
- TLMR 101
- TLMR 201
- 4 AA Lithium batteries
- 12–24 Volt DC

* The maximum feed line length is dependent on ambient temperature, grease type and back pressure created by the application.
Ready-to-use centralised lubrication system

SKF TLMP series

The SKF MultiPoint Automatic Lubricator TLMP series is intended for reliable relubrication of multiple lubrication points. This sturdy automatic lubrication system is packaged as a complete kit, including the lubricator, required tubing and connectors. Designed to supply from one to eighteen lubrication points, the TLMP series features pluggable outlets and is easy to install and program via its keypad with LED display.

Featuring a reservoir capacity of nearly one litre, this versatile lubricator has a stirring paddle to prevent grease separation, making it suitable for more lubricants. With its high IP protection rating, the durable TLMP series is vibration resistant, withstands equipment washdowns and prevents contamination ingress. Also, the unit enables machine steering to temporarily disable lubrication by removing power.

**TLMP series advantages**

- Easy to install and program
- Complete kit
- Suitable for one to eighteen lubrication points
- Low-level and malfunction alarms; remote notification possible
- Machine steering by removing power
- Available in versions with different voltages
- Developed for industrial applications, as well as agricultural and off-road vehicles

The TLMP series are supplied complete with the following items

<table>
<thead>
<tr>
<th>TLMP 1008</th>
<th>TLMP 1018</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 ×</td>
<td>1 ×</td>
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<tr>
<td>1 ×</td>
<td>1 ×</td>
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<tr>
<td>2 ×</td>
<td>2 ×</td>
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<tr>
<td>20 m (65 ft)</td>
<td>50 m (164 ft)</td>
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<tr>
<td>8 ×</td>
<td>18 ×</td>
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<tr>
<td>8 ×</td>
<td>18 ×</td>
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<tr>
<td>7 ×</td>
<td>17 ×</td>
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</tbody>
</table>

**Filler nipple**

Replaces standard grease nipple for quicker lubricant replenishment using filler pump. (LAGF 1-H)

**Flexible hose with filler nipple**

Replaces standard grease nipple for quicker lubricant replenishment using filler pump. (LAGF 1-F)
**Designation:** TLMP 1008 and TLMP 1018

**Number of lubrication outlets**
- TLMP 1008: 1–8
- TLMP 1018: 1–18

**Suitable grease consistency**
- TLMP 1008: NLGI 2, 3
- TLMP 1018: NLGI 2, 3

**Maximum pressure**
- TLMP 1008: 120 bar (1 740 psi)
- TLMP 1018: 120 bar (1 740 psi)

**Maximum distance length to lubrication point**
- TLMP 1008: 5 m (16 ft)
- TLMP 1018: 5 m (16 ft)

**Dispense rate**
- TLMP 1008: 0.1 – 4.0 cm³/day (0.003 – 0.135 US fl. oz/day) per outlet
- TLMP 1018: 0.1 – 4.0 cm³/day (0.003 – 0.135 US fl. oz/day) per outlet

**Output pump element**
- TLMP 1008: Approx. 0.2 cm³ (per cycle), approx. 1.7 cm³ (per minute)
- TLMP 1018: Approx. 0.2 cm³ (per cycle), approx. 1.7 cm³ (per minute)

**Reservoir size**
- TLMP 1008: 1 litre
- TLMP 1018: 1 litre

**Useable reservoir volume**
- TLMP 1008: Approx. 0.5–0.9 litres (17–30 US fl. oz)
- TLMP 1018: Approx. 0.5–0.9 litres (17–30 US fl. oz)

**Filling**
- TLMP 1008: Via hydraulic lubrication fitting R1/4
- TLMP 1018: Via hydraulic lubrication fitting R1/4

**Installation position**
- Vertical (max deviation ±5°)

**Power Supply Connector**
- TLMP 1008: EN 175301-803 DIN 43650/A
- TLMP 1018: EN 175301-803 DIN 43650/A

**Alarms**
- Blocked feed lines, empty reservoir internal and external

**External steering**
- By disconnecting power supply
  - TLMP 1008: 24 V DC (–20/+30%)
  - TLMP 1018: 24 V DC (–20/+30%)

**Ambient temperature**
- –25 to +70 °C (–13 to +160 °F)

**IP rating**
- TLMP 1008: IP 67
- TLMP 1018: IP 67

**Lubrication tubes**
- TLMP 1008: 20 m (65 ft), 6 x 1.5 mm, Nylon
- TLMP 1018: 50 m (164 ft), 6 x 1.5 mm, Nylon

**Weight**
- TLMP 1008: Approx. 6 kg (13 lb)
- TLMP 1018: Approx. 6 kg (13 lb)

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**Technical data**

- **Stirring paddle to prevent grease separation**
- **Filter to avoid grease contamination from airborne particles**
- **Pump element features maximum operating pressure of 120 bar (1 740 psi)**
- **Divider block provides flexibility of using one to eight outlets**
- **LED display for simple programming**
- **Cycle control sensor ensures lubricant is delivered to outlets**

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**Illustration**

- Durable, metal housing for long service life
- Grease nipple
- Alarm indicates when reservoir is empty or when outlet is blocked
# Accessories

A full range for enhanced versatility of SKF automatic lubricators

## Connectors

<table>
<thead>
<tr>
<th>Connector</th>
<th>Type</th>
<th>Description</th>
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<tbody>
<tr>
<td>LAPA 45</td>
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<td>Angle connection 45°</td>
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<td>LAPA 90</td>
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<td>Angle connection 90°</td>
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<td>LAPE 35</td>
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<td>Extension 35 mm</td>
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<tr>
<td>LAPE 50</td>
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<td>Extension 50 mm</td>
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<tr>
<td>LAPF F1/4</td>
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<td>Tube connection female G1/4</td>
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<tr>
<td>LAPF M 3/8 S</td>
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<td>Tube connection male G3/8 for 6 x 4 tube</td>
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<tr>
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<td>LAPF M 3/4</td>
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<td>Tube connection male G3/4</td>
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<td>LAPF M 3/4 SW</td>
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<td>Extra strong tube connection male G3/4</td>
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<td>Tube connection male G3/8</td>
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<td>LAPG 3/4</td>
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<td>Nipple G1/4 – G1/8</td>
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<td>Nipple G1/4 – G3/8</td>
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<td>Nipple G1/4 – M6</td>
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<td>LAPN 8</td>
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<td>Nipple G1/4 – M8</td>
</tr>
<tr>
<td>LAPN 8 x1</td>
<td></td>
<td>Nipple G1/4 – M8 x 1</td>
</tr>
<tr>
<td>LAPN 10</td>
<td></td>
<td>Nipple G1/4 – M10</td>
</tr>
<tr>
<td>LAPN 10 x1</td>
<td></td>
<td>Nipple G1/4 – M10 x 1</td>
</tr>
<tr>
<td>LAPN 12</td>
<td></td>
<td>Nipple G1/4 – M12</td>
</tr>
<tr>
<td>LAPN 12 x1.5</td>
<td></td>
<td>Nipple G1/4 – M12 x 1.5</td>
</tr>
</tbody>
</table>

- **SKF LAGD Series**
- **SKF TLSO Series**
- **SKF TLMR Series**
### Non return valves (for oil applications)

<table>
<thead>
<tr>
<th>Non-return valve G1/4</th>
<th>LAPV 1/4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non-return valve G1/8</td>
<td>LAPV 1/8</td>
</tr>
</tbody>
</table>

### Brushes (for oil applications)

<table>
<thead>
<tr>
<th>Brush 30 × 40 mm</th>
<th>LAPB 3x4E1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brush 30 × 60 mm</td>
<td>LAPB 3x7E1</td>
</tr>
<tr>
<td>Brush 30 × 100 mm</td>
<td>LAPB 3x10E1</td>
</tr>
</tbody>
</table>

### Mounting and protecting devices and extras

<table>
<thead>
<tr>
<th>Bracket LAPC 13</th>
<th>13.6 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clamp LAPC 50</td>
<td>50 mm</td>
</tr>
<tr>
<td>Clamp LAPC 63</td>
<td>63 mm</td>
</tr>
<tr>
<td>Protection base LAPP 4</td>
<td></td>
</tr>
<tr>
<td>Protection cap LAPP 6</td>
<td></td>
</tr>
<tr>
<td>Flexible tube, 1000 mm long, 8 × 6 mm LAPT 1000</td>
<td></td>
</tr>
<tr>
<td>Flexible tube, 5000 mm long, 8 × 6 mm LAPT 5000</td>
<td></td>
</tr>
<tr>
<td>Flexible tube, 1000 mm long, 6 × 4 mm LAPT 1000S</td>
<td></td>
</tr>
<tr>
<td>Flexible tube, 5000 mm long, 6 × 4 mm LAPT 5000S</td>
<td></td>
</tr>
<tr>
<td>Extra strong flexible tube, 1000 mm long, 8 × 6 mm LAPT 1000SW</td>
<td></td>
</tr>
<tr>
<td>Extra strong flexible tube, 5000 mm long, 8 × 6 mm LAPT 5000SW</td>
<td></td>
</tr>
<tr>
<td>Lithium battery pack TLSD 1-BATC</td>
<td></td>
</tr>
<tr>
<td>Cable plug M12 for TLMR 201 (cable diameter 4–6 mm) TLMR 201-1</td>
<td></td>
</tr>
</tbody>
</table>

**LAPB 5-16/2K**

Elevator kit for 5, 9 or 16 mm rail
Quick tool for relubrication calculation

SKF DialSet

SKF DialSet has been designed to help you to set up your SKF automatic lubricators. After selecting the criteria and grease appropriate for your application, the program provides you with the correct settings for your SKF automatic lubricators. It also provides a quick and simple tool for relubrication intervals and quantity calculations.

- Allows quick calculation of the relubrication intervals based on the operating conditions of your application
- Calculations are based on SKF lubrication theories
- Calculated lubrication intervals depend on the properties of the selected grease, thereby minimising the risk of under- or overlubrication and optimising grease consumption
- Calculations take into account SKF automatic lubrication systems, grease dispense rates, thus facilitating the selection of the correct lubricator setting
- Recommended grease quantity depends on the grease replenishment position; side or W33 for optimum grease consumption
- Includes a complete list of the SKF SYSTEM 24 accessories

DialSet stand-alone
The stand-alone version of DialSet is available in 11 languages: English, French, German, Italian, Spanish, Swedish, Portuguese, Russian, Chinese, Japanese and Thai. The program is suitable for PC's working with MS Windows XP and later. Download it from skf.com/lubrication

DialSet online
DialSet is also available online in English language. The program is accessible free-of-charge from mapro.skf.com/dialset

DialSet for smartphones
For smartphones, apps are available in English for iPhone and Android.