Applying lubrication exactly where and when it's needed will help keep your operations running smoothly. Timken offers a range of single-point lubricators, so you can choose the optimal solutions for all your industrial needs.

Proper lubrication is critical to bearing and machine performance. To help extend the life of your equipment and increase uptime, Timken® D-Power, G-Power, and M-Power single-point lubricators periodically deliver grease or oil to bearings, chains, guideways and other industrial equipment components.
WHY TIMKEN LUBRICATORS

HELPS EXTEND EQUIPMENT LIFE
» A constant renewal of the lubricant helps ensure equipment availability
» Reliable, clean and precise lubrication around the clock
» Discharge periods from 1 to 12 months
» Lubricant volume 60 cc to 250 cc / 2.03 oz. to 8.45 oz.
» Operating conditions appropriate for indoor and outdoor temperatures

INCREASES PRODUCTION UPTIME
» Continuous production processes and predictable maintenance intervals
» Continuous, low maintenance, long-term lubrication
» Permanent supply of lube points with fresh lubricant
» Consistent lubrication increases equipment availability
» Energy cost reduction

INCREASES PLANT SAFETY
» Extended exchange intervals
» Reduced maintenance
» Time spent in danger zones is reduced
» Significantly reduces the risk of workplace accidents

BETTER FOR THE ENVIRONMENT
» Reduced lubricant consumption through controlled lubrication

TABLE OF CONTENTS
WHY TIMKEN LUBRICATORS .............................................................. 2
KEY APPLICATIONS ............................................................................ 3
SINGLE-POINT LUBRICATORS .......................................................... 4
TIMKEN LUBRICATORS
G-POWER LUBRICATOR ................................................................. 5
D-POWER LUBRICATOR ................................................................. 6
M-POWER LUBRICATOR ................................................................. 7
MOUNTING SOLUTIONS & ACCESSORIES ...................................... 8
LUBRICANTS ..................................................................................... 10
QUICK START GUIDE ................................................................. 11
HOW TO ORDER ............................................................................. 12
CONVEYORS
Conveyor uptime and efficiency is essential for smooth process flow.

- Large conveyor systems can extend over significant distances and heights, making lubrication difficult
- Environments are dusty and dirty with high vibration
- Optimal lubrication is key to ensure reliability and uptime

LUBRICATION POINTS
- Pillow block and housed unit bearings
- Spherical bearings and housings in the main drive and guide pulleys

PUMPS
Pump uptime and reliability is key in many industries.

- Routine injection of fresh grease is important to the pump bearings and the specialized seals often found in pumps
- Environments are dusty and dirty with high vibration
- Optimal lubrication is key to ensure reliability and uptime

LUBRICATION POINTS
- Main pump support bearings and driveshaft bearings
- Lubrication of labyrinth and gland seals prevents contamination from the environment or pumped media

Tinmen lubricators are uniquely suited for belt conveyors, electric motors, pumps, fans and blowers.

ELECTRIC MOTORS
Electric motors are often located in hard-to-reach or dangerous areas.

- Failure to adhere to manufacturers’ lubrication specification can lead to premature bearing damage and costly downtime
- Over-lubricating can damage the electric motor windings

LUBRICATION POINTS
- Drive and non-drive ends of the motor

Note: It is important to install a grease trap or grease relief at the bearing positions to avoid over greasing

BLOWERS
Blowers and fans are used in almost all key industries.

- Fans and blowers are used in various industries to provide needed air supply or to remove dirt, dust and harmful gases
- Environmental conditions in fans and blowers can be dirty, dusty and hot with high rotational speeds

LUBRICATION POINTS
- Main fan shaft housed unit bearings
- Lubrication of both the bearings and seals in the bearing housings are important for reliable operation

KEY APPLICATIONS

APPLICATION | G-POWER | D-POWER | M-POWER
--- | --- | --- | ---
CONVEYORS | * | * | **
ELECTRIC MOTORS | * | ** | 
PUMPS | * | ** | **
BLOWERS/FANS | ** | ** | 

* Good Fit
** Excellent Fit
## SINGLE-POINT LUBRICATORS

<table>
<thead>
<tr>
<th></th>
<th>G-POWER</th>
<th>D-POWER</th>
<th>M-POWER</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type</strong></td>
<td>Single-point lubrication system, electrochemical</td>
<td>Single-point lubrication system, electrochemical</td>
<td>Single-point lubrication system, electromechanical</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>Model 101, general-purpose lubricator with a metal casing.</td>
<td>All-in-one system with dial selection for use in a wide range of operating temperatures.</td>
<td>General-purpose lubricator with a plastic case, monthly increment setting and replaceable lubricant cartridge (either 60 cm³, 120 cm³ or 250 cm³). Reusable, battery-powered electromechanical drive motor.</td>
</tr>
<tr>
<td><strong>Lubricants</strong></td>
<td>Grease up to NLGI 2/Oil</td>
<td>Grease up to NLGI 2/Oil</td>
<td>Grease up to NLGI 2/Oil</td>
</tr>
<tr>
<td><strong>Discharge Period</strong></td>
<td>1, 3, 6, 12 months (1)*</td>
<td>1, 2, 3, …, 12 months (1)*</td>
<td>1, 2, 3, …, 12 months</td>
</tr>
<tr>
<td><strong>Max Pressure</strong></td>
<td>4 bar / 50 psi</td>
<td>5 bar / 73 psi</td>
<td>6 bar / 87 psi</td>
</tr>
<tr>
<td><strong>Operating Temperature</strong></td>
<td>0° C to +40° C (+32° F to +104° F)</td>
<td>-20° C to +60° C (-4° F to +140° F)</td>
<td>-10° C to +60° C (+14° F to +140° F)</td>
</tr>
<tr>
<td><strong>Volume</strong></td>
<td>120 cc / 4.06 oz.</td>
<td>60, 125 cc / 2.03, 4.23 oz.</td>
<td>60, 120, 250 cc / 2.03, 4.06, 8.45 oz.</td>
</tr>
<tr>
<td><strong>Drive/Power Supply</strong></td>
<td>Chemical</td>
<td>Electrochemical integrated battery</td>
<td>Drive motor/battery</td>
</tr>
<tr>
<td><strong>Activation/Setting</strong></td>
<td>Activator screw</td>
<td>Dial/rotary switch</td>
<td>Push button control and display</td>
</tr>
<tr>
<td><strong>Approx. Weight</strong></td>
<td>250 g (0.55 lb.)</td>
<td>60 cc unit = 139 g (0.306 lb.)</td>
<td>60 cc unit = 649 g (1.425 lb.)</td>
</tr>
<tr>
<td></td>
<td>125 cc unit = 210 g (0.463 lb.)</td>
<td>120 cc unit = 716 g (1.58 lb.)</td>
<td>250 cc unit = 876 g (1.932 lb.)</td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>Height = 99 mm (3.89 in.)</td>
<td>Height = 86.5 mm (3.40 in.) /117 mm (4.60 in.)</td>
<td>Height = 60 cc= 155 mm (6.10 in.)</td>
</tr>
<tr>
<td></td>
<td>Diameter = 70 mm (2.75 in.)</td>
<td>Diameter = 58 mm (2.28 in.) /58 mm (2.28 in.)</td>
<td>120 cc= 178 mm (7.01 in.)</td>
</tr>
<tr>
<td></td>
<td>Max. Diameter = 67 mm (2.63 in.)</td>
<td></td>
<td>250 cc= 228 mm (8.97 in.)</td>
</tr>
<tr>
<td><strong>Protection Class</strong></td>
<td>IP 68</td>
<td>IP 68</td>
<td>IP 65</td>
</tr>
</tbody>
</table>

* at 20° C /68° F standard grease
G-POWER | THE CLASSIC LUBRICATION SYSTEM

SIMPLE. ROBUST. RELIABLE.
• Used in numerous applications with ambient temperatures ranging from 0° C to +40° C (+32° F to +104° F).
• Dispenses lubricant volume of 120 cm³ during a period of one, three, six or twelve months, depending on operating conditions.
• Chemical reaction ensures reliable function.
• Activator is screwed in the lubrication system and the eyelet torn off.
• Chemical reaction pushes grease out at pressure up to four bars.

APPLICATIONS/MACHINE ELEMENTS
• Delivers constant lubrication to roller and sliding bearings, sliding guides, open gears, gear racks, spindles, shaft seals and chains.
• Used primarily in mining, steel, automotive and mechanical engineering industries.

<table>
<thead>
<tr>
<th>PRODUCT CHARACTERISTICS</th>
<th>BENEFITS</th>
</tr>
</thead>
</table>
| Simple activation through activator | • Tamper-proof, easy-to-use  
• Economical, permanent lubrication  
• Quick and easy exchange without special tools |
| One-time activation | • 1, 3, 6 or 12 months |
| Metal housing | • Robust housing for use in harsh environments |
| Explosion-proof certification  
Mining approval | • Safe and reliable lubrication in explosive areas  
• Better workplace safety, since dangerous areas have to be visited for maintenance less often  
• Suitable for underground use |
**PRODUCT CHARACTERISTICS** | **BENEFITS**
--- | ---
All-in-one system with rotary switch for discharge period setting | • System is supplied fully mounted and is ready to use immediately  
• Easy setting and activation using rotary switch  
• Discharge period can be regulated from 1–12 months in monthly steps 1, 2, 3 … 12 months

System operates reliably from -20° C to +60° C (-4° F to 140° F) | • Flexible use in various temperature ranges  
• Year-round outdoor use possible

Explosion-proof certification  
FM approval  
IP 68 | • Safe and reliable lubrication in explosive areas  
• Can be used in very moist and dusty environments  
• Increased workplace safety

**FLEXIBLE USE — EVEN ON LUBRICATION POINTS WITH CHALLENGING REQUIREMENTS.**

- Compact, ready-to-use lubrication system supplied as a complete unit.
- Can be used in various applications at temperatures ranging from -20° C to +60° C (-4° F to 140° F).
**M-POWER | LUBRICATION SYSTEM**

**HIGH-PRECISION AND EASY-TO-USE LUBRICATION SYSTEM — INDEPENDENT OF TEMPERATURE AND COUNTER PRESSURE.**

Three different sizes for individual lubricant metering.

- Fully automatic. Operates independent of temperature and pressure. Offers a precise discharge.

- System contains an electromechanical drive, an lubricant cartridge with 60, 120 or 250 cm³ of lubricant and battery pack.
- Easily selectable desired discharge period and lubricant cartridge size; setting button immediately visible in the LCD.
- Current operating status indicated on the LCD and via LED red/green signal lights (recognizable from a distance).

**APPLICATIONS/MACHINE ELEMENTS**

- Delivers constant lubrication to roller and sliding bearings, sliding guides, open gears, gear racks, spindles, shaft seals and chains.
- Precise lubricant metering makes it an ideal fit for electric motors often located in hard-to-reach or dangerous areas.
- Fulfills the requirements of IP 65 (ingress of water/contamination); functions reliably in extremely dusty and moist environments.

**PRODUCT CHARACTERISTICS | BENEFITS**

<table>
<thead>
<tr>
<th>LCD display with setting button</th>
<th>Displays discharge period, lubricant cartridge size and operating status</th>
</tr>
</thead>
</table>
| Setting: 1, 2, 3 ... 12 months and lubricant cartridge size | • Simple and self-explanatory operation  
• Precise settings according to requirements prevent lubrication starvation and over-operating status lubrication |

<table>
<thead>
<tr>
<th>Electromechanical, reusable drive with battery pack, LED (red/green) visible all round</th>
<th>signals functioning and any errors</th>
</tr>
</thead>
</table>
| Pressure build-up to 6 bar / 87 psi allows remote mounting up to 5 m / 14.4 ft  
Additional discharge at the press of a button (purge) | • Reliable, precise lubricant discharge independent of temperature and counter pressure  
• One-time acquisition costs for M-Power Drive  
• Quick function control via LED signals saves time and relieves maintenance workers |

| Outside thread R1/4 | • Installation in easy-to-reach places increases workplace safety and saves time  
• Lubrication point can be purged to clear blockages |
MOUNTING SOLUTIONS & ACCESSORIES

Order lubrication system + accessories for direct mounting

For many lubrication points it is beneficial to remote mount lubrication systems at locations that are safe to access while machinery is operating. The following questions can be used to help guide remote mounting decisions.

A “YES” TO ANY OF THE QUESTIONS INDICATES THAT REMOTE MOUNTING IS LIKELY TO BE REQUIRED.

1. Is it necessary to remove protective guards or safety cages to access the lubrication point?
2. Is it difficult or unsafe to access the lubrication point while equipment is running?
3. Is the lubrication point subject to severe vibration or high temperatures which may damage the lubrication system?
4. Is it necessary to get permits to access lubrication points when in confined spaces or fall protection is required?
5. Is the lubrication point exposed to excessive amounts of water, process materials or impact from solid materials?

Yes = Remote Mounting

No = Direct Mounting

See below

INSTALL KIT D-Power
SD 1-pt 30 mm beam clamp
mount 3 ft hose / support flange
G1/4 M x G1/4 F
PA900108

INSTALL KIT D-Power
SD 1-pt cage hanger mount
3 ft hose / support flange
G1/4 M x G1/4 F
PA900109

INSTALL KIT M-Power
SD 1-pt 65 mm beam
clamp mount 6 ft hose
PA900112

INSTALL KIT M-Power
HD 1-pt 65 mm beam
clamp mount 6 ft hose
PA900116

INSTALL KIT M-Power
HD 1-pt cage hanger
mount 6 ft hose
PA900113

INSTALL KIT D-Power
SD 2-pt 30 mm beam clamp
mount 6 ft hose / support flange G1/4 M x G1/4 F
PA900110

INSTALL KIT D-Power
SD 2-pt cage hanger mount
6 ft hose / support flange G1/4 M x G1/4 F
PA900111

INSTALL KIT M-Power
SD 2-pt 65 mm beam clamp mount 12 ft hose
PA900114

INSTALL KIT M-Power
HD 2-pt 65 mm beam clamp mount 12 ft hose
PA900117

INSTALL KIT M-Power
HD 2-pt cage hanger mount 12 ft hose
PA900115
PA900101  Bracket (stainless steel)
PA800110  Oil brush 1”/25.4 mm x 2.4”/60 mm G1/4” female thread on top Horsehair bristles +80° C
PA800119  Reducer M6 male x G1/4” female (stainless steel)
PA800131  Oil retaining valve G1/4” male x G1/4” female up to +140° F / +60° C (with plastic valve) (brass)
PA800201  Reducer 1/8” NPT male x 1/4” NPT female (nickel plated)
PA800202  Reducer 1/4-28” UNF male x 1/4” NPT female (nickel plated)
PA800411  Support flange M-Power 1/4” NPT male x G1/4” female (brass/plastic)
PA800206  Angle 45 1/8” NPT male x 1/4” NPT female (nickel plated)
PA800207  Angle 45 1/4-28” UNF male x 1/4” NPT female (nickel plated)
PA800219  Angle 45° 1/4” NPT male x 1/4” NPT female (brass)
PA800221  Angle 90° 1/4” NPT male x 1/4” NPT female (brass)
PA800233  Tube connector 1/8” NPT male for tube ø Ø 3/8 (nickel plated)
PA800234  Tube connector 1/4” NPT male for tube ø Ø 3/8 (nickel plated)
PA800302  Hose Tubing 3/8” per 1 foot increment up to +165° F ø Ø 3/8” x iØ .250” (blue)
PA900100  Angle 90° 1/4” NPT male x 1/4” NPT female square (brass)
PA900000  Angle 45° 1/4” NPT male x 1/4” NPT female (brass)
PA900106  Reducer 1/4” UNF male x G1/4” female
PA900102  Extension 2 inch 1/4” NPT male x 1/4” NPT female (brass)
PA900104  Extension 4 inch 1/4” NPT male x 1/4” NPT female (brass)
PA900103  Extension 2 inch 1/8” NPT male x 1/4” NPT female (brass)
PA900105  Extension 4 inch 1/8” NPT male x 1/4” NPT female (brass)
PA900107  Support flange D-Power 1/4” NPT male x G1/4” female (brass/plastic)
Each lubricator is custom filled with the lubricant of your choice. We stock a range of Timken and other common industrial lubricants.

See the list below for stocked lubricants:

<table>
<thead>
<tr>
<th>Grease Code</th>
<th>Grease Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>217 Timken Premium All-Purpose LC-2 Grease</td>
<td>434 Mobil Grease HTS</td>
</tr>
<tr>
<td>219 Timken Construction and Off-Highway</td>
<td>311 Mobil Grease XHP 220</td>
</tr>
<tr>
<td>231 Timken Food Safe Grease</td>
<td>313 Mobil Grease XHP 221</td>
</tr>
<tr>
<td>182 Timken Mill Grease 2</td>
<td>314 Mobil Grease XHP 222</td>
</tr>
<tr>
<td>236 Timken Multi-Use Lithium EP1</td>
<td>506 Mobil Mobilith SHC 100</td>
</tr>
<tr>
<td>237 Timken Multi-Use Lithium EP2</td>
<td>507 Mobil Mobilith SHC 220</td>
</tr>
<tr>
<td>220 Timken Ball Bearing Pillow Block Grease</td>
<td>508 Mobil Mobilith SHC 460</td>
</tr>
<tr>
<td>255 Timken High-Performance Roller Housed Unit Grease</td>
<td>349 Mobil Mobilith SHC PM 460</td>
</tr>
<tr>
<td>232 Timken Synthetic Industrial LC-1.5 Grease</td>
<td>316 Mobil Mobilux EP 1</td>
</tr>
<tr>
<td>406 Chevron Delo EP 1</td>
<td>435 Mobil Mobilux EP 2</td>
</tr>
<tr>
<td>407 Chevron Delo EP 2</td>
<td>490 Mobil Polyrex EM</td>
</tr>
<tr>
<td>303 Chevron Multifak EP 1</td>
<td>531 Mobil Polyrex EP 2</td>
</tr>
<tr>
<td>545 Chevron Multifak EP 2</td>
<td>417 Mobil Ronex MP 2</td>
</tr>
<tr>
<td>325 Chevron SRI 2</td>
<td>513 Mobil SHC Polyrex 222</td>
</tr>
<tr>
<td>450 Chevron Starplex 2</td>
<td>459 Mobil Unirex EP 2</td>
</tr>
<tr>
<td>414 Conoco Super-Sta 2</td>
<td>318 Mystic JT-6 Multipurpose No. 2</td>
</tr>
<tr>
<td>560 Conoco Triton 220</td>
<td>518 Royal Purple Ultra Performance #2</td>
</tr>
<tr>
<td>416 Fuchs Renolit Poliplex 1</td>
<td>440 Shell Gadus S2 V220 1</td>
</tr>
<tr>
<td>309 Lubriplate 1241</td>
<td>439 Shell Gadus S2 V220 2</td>
</tr>
<tr>
<td>331 Lubriplate Chain and Cable</td>
<td>557 Shell Gadus S3 V220C 1</td>
</tr>
<tr>
<td>332 Shell Gadus S3 V220C 2</td>
<td></td>
</tr>
</tbody>
</table>

Other greases may be available based on demand. If your grease is not on this list, please contact your Timken Sales Engineer or Customer Service.
DISCHARGE RATES

Activator / setting based on the required lubricant amount:

<table>
<thead>
<tr>
<th>Lubricant</th>
<th>Activator / setting based on the required lubricant amount:</th>
</tr>
</thead>
<tbody>
<tr>
<td>120 cc / 4.06 oz.</td>
<td></td>
</tr>
<tr>
<td>Lubricant / day [cc / oz.]</td>
<td>4 / 0.14</td>
</tr>
<tr>
<td>Lubricant / week [cc / oz.]</td>
<td>28 / 0.95</td>
</tr>
<tr>
<td>Lubricant / months [cc / oz.]</td>
<td>120 / 4.06</td>
</tr>
</tbody>
</table>

| Lubricant / day [cc / oz.] | 2.0 / 0.07 | 1.0 / 0.03 | 0.7 / 0.02 | 0.5 / 0.02 |
| Lubricant / 100 h [cc / oz.] | 8.3 / 0.28 | 4.2 / 0.14 | 2.8 / 0.09 | 2.1 / 0.07 |
| Lubricant / week [cc / oz.] | 14 / 0.47 | 7 / 0.24 | 4.7 / 0.16 | 3.5 / 0.15 |
| Lubricant / months [cc / oz.] | 60 / 2.03 | 30 / 1.01 | 21 / 0.71 | 15 / 0.51 |

| Lubricant / day [cc / oz.] | 4.2 / 0.14 | 2.1 / 0.07 | 1.4 / 0.05 | 1.0 / 0.03 |
| Lubricant / 100 h [cc / oz.] | 17.4 / 0.59 | 8.7 / 0.29 | 5.8 / 0.20 | 4.3 / 0.15 |
| Lubricant / week [cc / oz.] | 29.2 / 0.99 | 14.6 / 0.49 | 9.7 / 0.33 | 7.3 / 0.25 |
| Lubricant / months [cc / oz.] | 126 / 4.2 | 63 / 2.13 | 42 / 1.42 | 30 / 1.01 |

| Lubricant / day [cc / oz.] | 8.3 / 0.28 | 4.2 / 0.14 | 2.8 / 0.09 | 2.1 / 0.07 |
| Lubricant / 100 h [cc / oz.] | 34.7 / 1.17 | 17.4 / 0.59 | 11.6 / 0.39 | 8.7 / 0.29 |
| Lubricant / week [cc / oz.] | 58.3 / 1.97 | 29.2 / 0.99 | 19.4 / 0.66 | 14.6 / 0.49 |
| Lubricant / months [cc / oz.] | 250 / 0.22 | 126 / 4.2 | 84 / 2.84 | 63 / 2.13 |

*Based on temperature of 68° F = 20° C.
HOW TO ORDER

First step: Select lubricator model based on application

<table>
<thead>
<tr>
<th>APPLICATION</th>
<th>G-POWER</th>
<th>D-POWER</th>
<th>M-POWER</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONVEYORS</td>
<td>*</td>
<td>*</td>
<td>**</td>
</tr>
<tr>
<td>ELECTRIC MOTORS</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PUMPS</td>
<td>*</td>
<td>**</td>
<td>**</td>
</tr>
<tr>
<td>BLOWERS/FANS</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Good Fit
** Excellent Fit

Second step: Select model options

SELECT LUBRICATOR - Timken G-Power Lubricator* 120 cc.
SELECT ACTIVATOR (1 month, yellow); (3 month, green); (6 months, red); (12 months, gray).
SELECT LUBRICANT
SELECT MOUNTING KIT AND ACCESSORY as needed.

SELECT LUBRICATOR - Timken D-Power Lubricator* 60 cc or 120 cc.
SELECT LUBRICANT
SELECT MOUNTING KIT AND ACCESSORY as needed.

SELECT - Timken M-Power Drive Unit.*
SELECT Timken M-Power Lubricator Cartridge** 60 cc, 120 cc or 250 cc.*
SELECT LUBRICANT
SELECT MOUNTING KIT AND ACCESSORY as needed (support flange recommended #PA800411).
ORDER YOUR REPLACEMENT CARTRIDGES BY SPECIFYING THE CARTRIDGE

*All units including cartridge and drives are packaged and sold in multiples of 10.
**Batteries are included with the M-Power Lubricator Cartridge.

Motors and cartridges are sold separately. Use PM202000 to order the M-Power Motor Drive. Use PM2xxxxx to order the desired M-Power cartridge. (see nomenclature chart below)

TIMKEN

The Timken team applies their know-how to improve the reliability and performance of machinery in diverse markets worldwide. The company designs, makes and markets high-performance mechanical components, including bearings, belts, chain, gears and related mechanical power transmission products and services.

Stronger. By Design.