

TIMKEN

TIMKEN SINGLE-POINT LUBRICATION SYSTEMS

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.



Stronger. **By Design.**

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

KEY APPLICATIONS

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

Timken 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

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

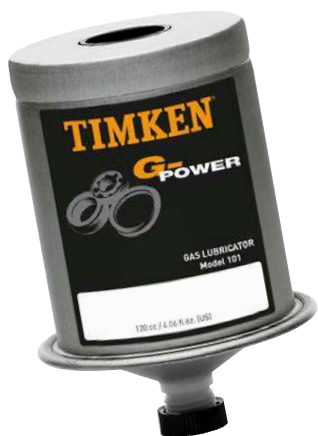
* Good Fit
** Excellent Fit

SINGLE-POINT LUBRICATORS

			
	G-POWER	D-POWER	M-POWER
Type	Single-point lubrication system, electrochemical	Single-point lubrication system, electrochemical	Single-point lubrication system, electromechanical
Description	Model 101, general-purpose lubricator with a metal casing.	All-in-one system with dial selection for use in a wide range of operating temperatures.	General-purpose lubricator with a plastic case, monthly increment setting and replaceable lubricant cartridge (either 60 cm ³ , 120 cm ³ or 250 cm ³). Reusable, battery-powered electromechanical drive motor.
Lubricants	Grease up to NLGI 2/Oil	Grease up to NLGI 2/Oil	Grease up to NLGI 2/Oil
Discharge Period	1, 3, 6, 12 months (1)*	1, 2, 3, ..., 12 months (1)*	1, 2, 3, ..., 12 months
Max Pressure	4 bar / 50 psi	5 bar / 73 psi	6 bar / 87 psi
Operating Temperature	0° C to +40° C (+32° F to +104° F)	-20° C to +60° C (-4° F to +140° F)	-10° C to +60° C (+14° F to +140° F)
Volume	120 cc / 4.06 oz.	60, 125 cc / 2.03, 4.23 oz.	60, 120, 250 cc / 2.03, 4.06, 8.45 oz.
Drive/Power Supply	Chemical	Electrochemical integrated battery	Drive motor/battery
Activation/Setting	Activator screw	Dial/rotary switch	Push button control and display
Approx. Weight	250 g (0.55 lb.)	60 cc unit = 139 g (0.306 lb.) 125 cc unit = 210 g (0.463 lb.)	60 cc unit = 649 g (1.425 lb.) 120 cc unit = 716 g (1.58 lb.) 250 cc unit = 876 g (1.932 lb.)
Dimensions	Height = 99 mm (3.89 in.) Diameter = 70 mm (2.75 in.) Max. Diameter = 67 mm (2.63 in.)	Height = 86.5 mm (3.40 in.) / 117 mm (4.60 in.) Diameter = 58 mm (2.28 in.) / 58 mm (2.28 in.)	Height = 60 cc= 155 mm (6.10 in.) 120 cc= 178 mm (7.01 in.) 250 cc= 228 mm (8.97 in.) Max. Diameter= 75 mm (3 in.)
Protection Class		IP 68	IP 65

*at 20° C / 68° F standard grease

G-POWER | THE CLASSIC LUBRICATION SYSTEM

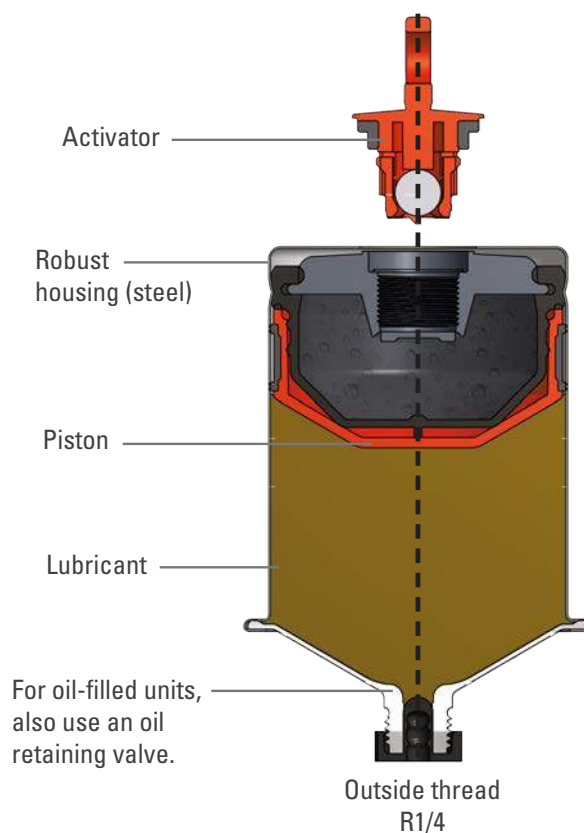
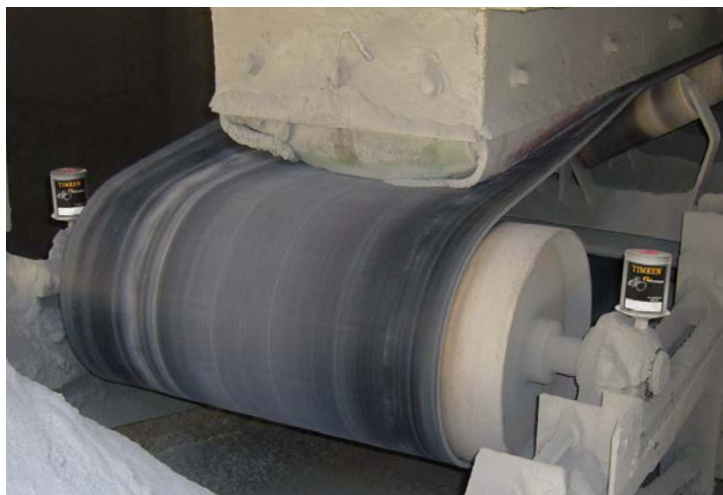


SIMPLE. ROBUST. RELIABLE.

- 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.



PRODUCT CHARACTERISTICS	BENEFITS
Simple activation through activator	<ul style="list-style-type: none"> • Tamper-proof, easy-to-use • Economical, permanent lubrication • Quick and easy exchange without special tools
One-time activation	<ul style="list-style-type: none"> • 1, 3, 6 or 12 months
Metal housing	<ul style="list-style-type: none"> • Robust housing for use in harsh environments
Explosion-proof certification Mining approval	<ul style="list-style-type: none"> • 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

D-POWER | THE FLEXIBLE LUBRICATION SYSTEM IN TWO COMPACT SIZES



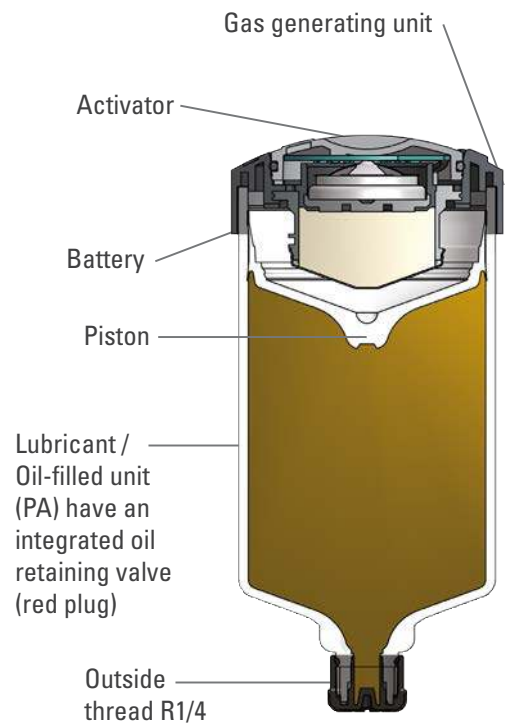
FLEXIBLE USE – EVEN ON LUBRICATION POINTS WITH CHALLENGING REQUIREMENTS.

- 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).

- Discharge-period setting adjustable from one to 12 months.
- Continuously supplies fresh lubricant throughout the selected discharge period.
- Available in two sizes 60 cm³ and 125 cm³.

APPLICATIONS/MACHINE ELEMENTS

- Constantly dispenses lubrication in a variety of applications.
- Fulfills the requirements of IP 68 (ingress of water/contamination); functions reliably in extremely dusty and moist environments.
- Works in various temperatures; suitable for outdoors.
- Discharge suspension available, if required.
- Adjustable discharge period after activation.



PRODUCT CHARACTERISTICS

All-in-one system with rotary switch for discharge period setting

System operates reliably from -20° C to +60° C (-4° F to 140° F)

**Explosion-proof certification
FM approval
IP 68**

BENEFITS

- 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
- Flexible use in various temperature ranges
- Year-round outdoor use possible
- Safe and reliable lubrication in explosive areas
- Can be used in very moist and dusty environments
- Increased workplace safety



M-POWER | LUBRICATION SYSTEM

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

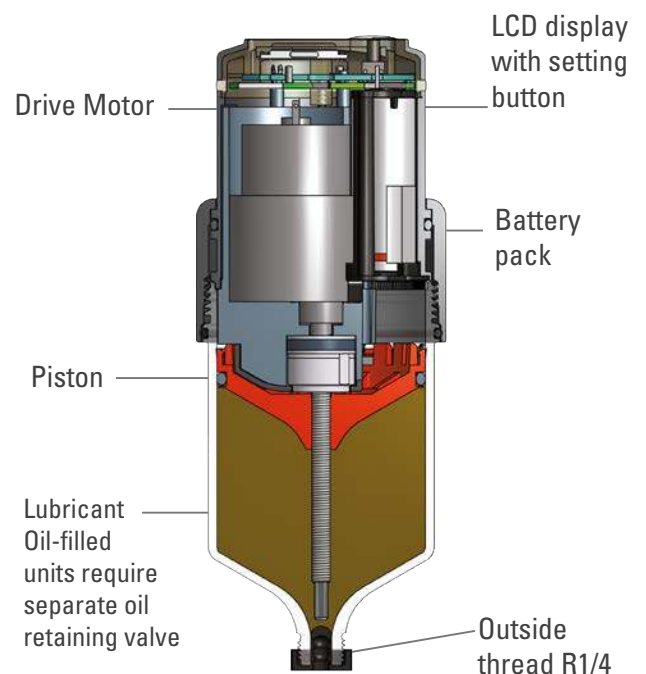
Three different sizes for individual lubricant metering.

- 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
LCD display with setting button Displays discharge period, lubricant cartridge size and operating status	<ul style="list-style-type: none"> • Simple and self-explanatory operation • Precise settings according to requirements prevent lubrication starvation and over-operating status lubrication
Setting: 1, 2, 3 ... 12 months and lubricant cartridge size	<ul style="list-style-type: none"> • Settings can be changed at any time • Can be turned off for extended equipment shut downs
Electromechanical, reusable drive with battery pack, LED (red/green) visible all round signals functioning and any errors	<ul style="list-style-type: none"> • 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
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)	<ul style="list-style-type: none"> • 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
See below



No = Direct Mounting
See Page 9



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 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 1-pt cage hanger mount
3 ft hose / support flange
G1/4 M x G1/4 F

PA900109



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 1-pt 65 mm beam
clamp mount 6 ft hose

PA900112



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

PA900114



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

PA900116



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

PA900117



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

PA900113



INSTALL KIT M-Power
HD 2-pt cage hanger
mount 12 ft hose

PA900115

MOUNTING SOLUTIONS & ACCESSORIES

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 oØ 3/8 (nickel plated)
PA800234	Tube connector 1/4" NPT male for tube oØ 3/8 (nickel plated)
PA800302	Hose Tubing 3/8" per 1 foot increment up to +165° F oØ 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)



LUBRICANTS

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:

Grease Code

- 217** Timken Premium All-Purpose LC-2 Grease
- 219** Timken Construction and Off-Highway
- 231** Timken Food Safe Grease
- 182** Timken Mill Grease 2
- 236** Timken Multi-Use Lithium EP1
- 237** Timken Multi-Use Lithium EP2
- 220** Timken Ball Bearing Pillow Block Grease
- 255** Timken High-Performance Roller Housed Unit Grease
- 232** Timken Synthetic Industrial LC-1.5 Grease
- 406** Chevron Delo EP 1
- 407** Chevron Delo EP 2
- 303** Chevron Multifak EP 1
- 545** Chevron Multifak EP 2
- 325** Chevron SRI 2
- 450** Chevron Starplex 2
- 414** Conoco Super-Sta 2
- 560** Conoco Triton 220
- 416** Fuchs Renolit Poliplex 1
- 309** Lubriplate 1241
- 331** Lubriplate Chain and Cable

Grease Code

- 434** Mobil Grease HTS
- 311** Mobil Grease XHP 220
- 313** Mobil Grease XHP 221
- 314** Mobil Grease XHP 222
- 506** Mobil Mobilith SHC 100
- 507** Mobil Mobilith SHC 220
- 508** Mobil Mobilith SHC 460
- 349** Mobil Mobilith SHC PM 460
- 316** Mobil Mobilux EP 1
- 435** Mobil Mobilux EP 2
- 490** Mobil Polyrex EM
- 531** Mobil Polyrex EP 2
- 417** Mobil Ronex MP 2
- 513** Mobil SHC Polyrex 222
- 459** Mobil Unirex EP 2
- 318** Mystic JT-6 Multipurpose No. 2
- 518** Royal Purple Ultra Performance #2
- 440** Shell Gadus S2 V220 1
- 439** Shell Gadus S2 V220 2
- 557** Shell Gadus S3 V220C 1
- 552** Shell Gadus S3 V220C 2



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.






QUICK START GUIDE

DISCHARGE RATES

Activator / setting based on the required lubricant amount:

G-POWER*



120 cc / 4.06 oz.
Lubricant

Activator / months at +20° C	1	3	6	12
Lubricant / day [cc / oz.]	4 / 0.14	1.3 / 0.04	0.7 / 0.02	0.3 / 0.01
Lubricant / week [cc / oz.]	28 / 0.95	9.3 / 0.31	4.7 / 0.16	2.3 / 0.08
Lubricant / months [cc / oz.]	120 / 4.06	40 / 1.32	20 / 0.71	10 / 0.30

D-POWER* **M-POWER**



60 - 65 cc /
2.03 oz. - 2.20 oz.
Lubricant

Setting / month	1	2	3	4	5	6	7	8	9...	...12
Lubricant / day [cc / oz.]	2.0 / 0.07	1.0 / 0.03	0.7 / 0.02	0.5 / 0.02	0.4 / 0.01	0.3 / 0.01	0.3 / 0.01	0.3 / 0.01	0.2 / 0.01	0.2 / 0.01
Lubricant / 100 h [cc / oz.]	8.3 / 0.28	4.2 / 0.14	2.8 / 0.09	2.1 / 0.07	1.7 / 0.06	1.4 / 0.05	1.2 / 0.04	1 / 0.03	0.9 / 0.03	0.7 / 0.02
Lubricant / week [cc / oz.]	14 / 0.47	7 / 0.24	4.7 / 0.16	3.5 / 0.15	2.8 / 0.09	2.3 / 0.08	2 / 0.07	1.8 / 0.06	1.6 / 0.05	1.6 / 0.05
Lubricant / months [cc / oz.]	60 / 2.03	30 / 1.01	21 / 0.71	15 / 0.51	12 / 0.41	9 / 0.30	8 / 0.27	7.2 / 0.24	6.4 / 0.22	6.4 / 0.22

D-POWER* **M-POWER**


120 - 125 cc /
4.06 oz. - 4.40 oz.
Lubricant

Setting / month	1	2	3	4	5	6	7	8	9...	...12
Lubricant / day [cc / oz.]	4.2 / 0.14	2.1 / 0.07	1.4 / 0.05	1 / 0.03	0.8 / 0.03	0.7 / 0.02	0.6 / 0.02	0.5 / 0.02	0.5 / 0.02	0.4 / 0.01
Lubricant / 100 h [cc / oz.]	17.4 / 0.59	8.7 / 0.29	5.8 / 0.20	4.3 / 0.15	3.5 / 0.12	2.9 / 0.10	2.5 / 0.08	2.2 / 0.07	1.9 / 0.06	1.6 / 0.05
Lubricant / week [cc / oz.]	29.2 / 0.99	14.6 / 0.49	9.7 / 0.33	7.3 / 0.25	5.8 / 0.20	4.9 / 0.17	4.2 / 0.14	3.6 / 0.12	3.2 / 0.11	2.6 / 0.09
Lubricant / months [cc / oz.]	126 / 4.2	63 / 2.13	42 / 1.42	30 / 1.01	24 / 0.81	21 / 0.71	18 / 0.61	15 / 0.51	15 / 0.51	12 / 0.41

M-POWER

250 cc / 8.25 oz.
Lubricant



Setting / month	1	2	3	4	5	6	7	8	9...	...12
Lubricant / day [cc / oz.]	8.3 / 0.28	4.2 / 0.14	2.8 / 0.09	2.1 / 0.07	1.7 / 0.06	1.4 / 0.05	1.2 / 0.04	1.0 / 0.03	0.9 / 0.03	0.7 / 0.02
Lubricant / 100 h [cc / oz.]	34.7 / 1.17	17.4 / 0.59	11.6 / 0.39	8.7 / 0.29	6.9 / 0.23	5.8 / 0.20	5.0 / 0.17	4.3 / 0.15	3.9 / 0.13	3.1 / 0.10
Lubricant / week [cc / oz.]	58.3 / 1.97	29.2 / 0.99	19.4 / 0.66	14.6 / 0.49	11.7 / 0.40	9.7 / 0.33	8.3 / 0.28	7.3 / 0.25	6.5 / 0.22	5.2 / 0.18
Lubricant / months [cc / oz.]	250 / 0.22	126 / 4.2	84 / 2.84	63 / 2.13	51 / 1.72	42 / 1.42	36 / 1.22	30 / 1.01	27 / 0.91	21 / 0.71

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

HOW TO ORDER

First step: Select lubricator model based on application

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

* 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)

P	M	2 4 1	2 1 7
G = G-Power D = D-Power M = M-Power	G-Power 101 = 120 cc D-Power 422 = 60 cc 442 = 120 cc M-Power 221 = 60 cc 241 = 120 cc 281 = 250 cc		3-digit lubricant number

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.

5M 03-17 :29 Order No. 5850 | Timken® is a registered trademark of The Timken Company. | © 2017 The Timken Company | Printed in U.S.A.

www.timken.com