SDW
TECHNICAL CONSULTING
PTY LTD

AUTOMATIC LUBRICATION SYSTEMS

PRODUCT CATALOGUE



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LUBRICATION SOLUTIONS

SDW Technical Consulting provides a point of contact for automatic lubrication product enquiries, technical selection and quotations for industrial applications.

PRODUCTS COVERED IN THIS CATALOGUE

Electrochemical lubricators
Electromechanical lubricators
Synchronised and remote-management systems
Automatic oilers and spring lubricators
Installation accessories and lubricant selection guides

Selection and quotation enquiries

Provide the equipment type, lubrication point details, operating conditions, lubricant requirement and preferred dispensing period so that the required configuration can be assessed.

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Source: Pulsarlube 2022 Master Catalogue. Product names, images and manufacturer specifications are retained for identification. Availability, lead times and configuration requirements are subject to confirmation.

Contents

Introduction
02 Company Introduction
04 Why Use Pulsarlube?

Applications
06 Pulsarlube at a Glance
08 Industries & Applications

Products
10 Electrochemical — Pulsarlube E; Pulsarlube V
14 Electromechanical — Pulsarlube M; Service Pack; Pulsarlube EXP; Pulsarlube EXPL
18 Electromechanical - Synchronizing — Pulsarlube MS; Pulsarlube MSP; Pulsarlube Mi
22 Electromechanical - Remote Management — Pulsarlube BT; Pulsarlube PLC
26 Oiler — Pulsarlube OL; Pulsarlube EO
28 Spring — Pulsarlube S

Installations
30 Pulsarlube Installation Options
32 Pulsarlube Oiler Installation Options

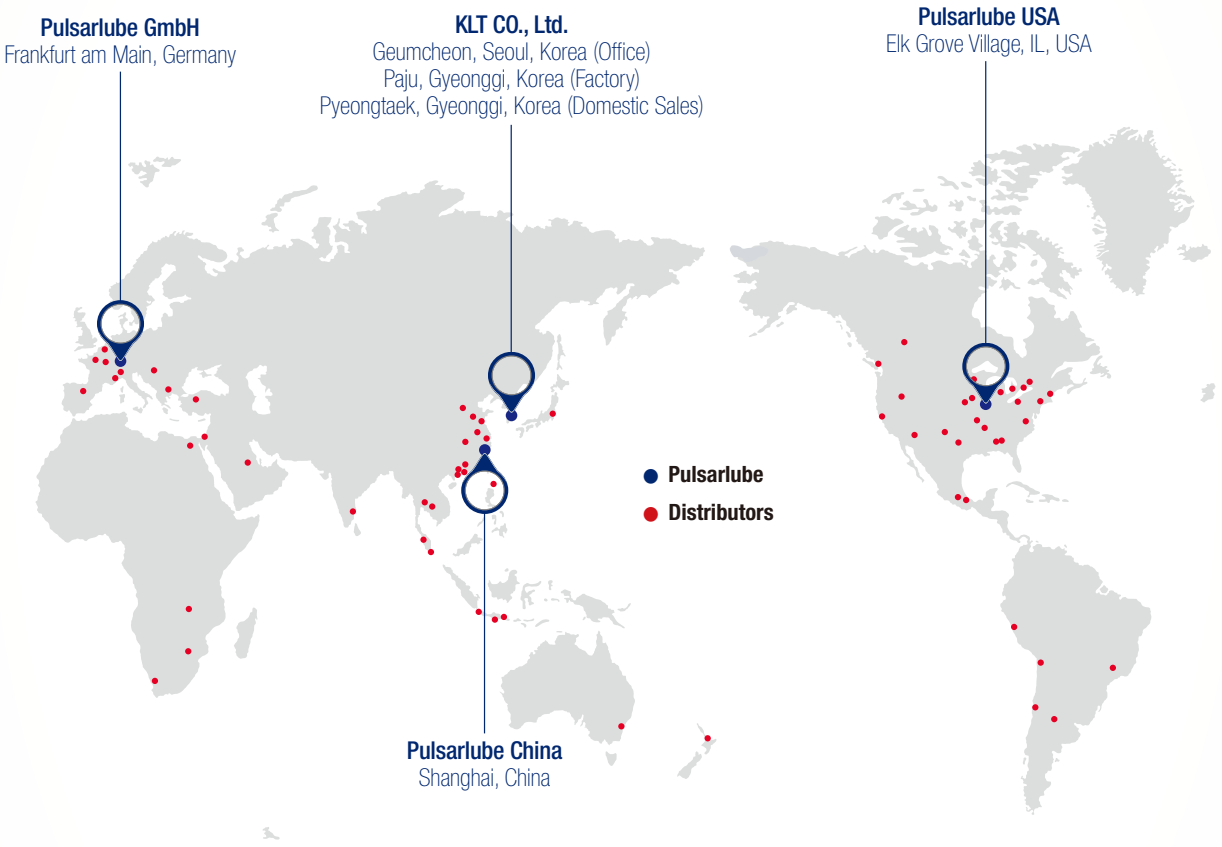
Guidelines
34 Pulsarlube Grease Guide
35 Pulsarlube Application Guide
36 Pulsarlube Dispensing Recommendations
37 How To Order

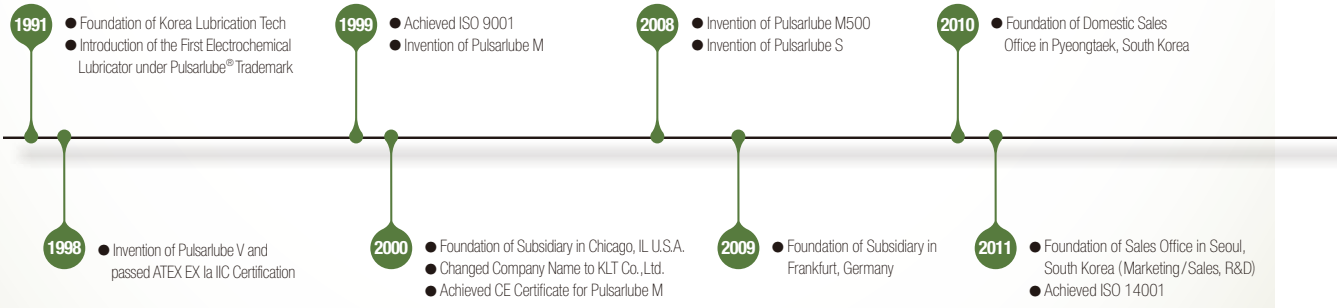
Manufacturer background

Company Introduction

Utilizing patented cutting edge microprocessor technology, **PULSARLUBE®** provides the most innovative and reliable Automatic Single Point Lubricator on the market. Backed by years of research and development PULSARLUBE offers a wide range of superior products to meet the needs of our customers.

PULSARLUBE provides high quality products and services worldwide through its well-established distribution network.





PULSARLUBE provides its customers with the highest quality assurance as well as continuous innovation to its cutting edge technology for the best lubrication solutions.

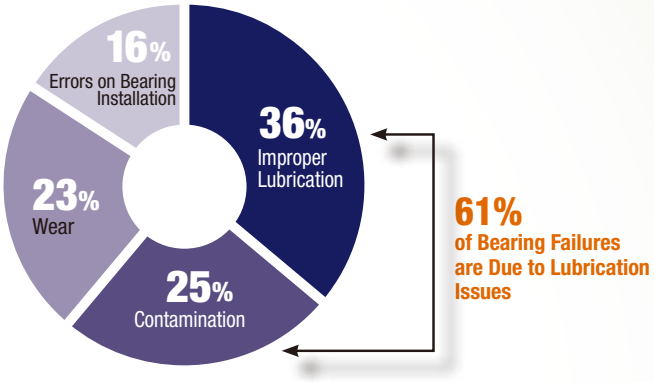
SAMSUNG · Hyundai · BAC · posco · Cargill
ILUKA · KIA · LG · HYUNDAI STEEL · TOYOTA
SK energy · LOTTE · DOOSAN · ADM · CSC
NIPPON STEEL & SUMITOMO METAL CORPORATION · EMERSON Process Management · ADDINOL · sasol · GM

- 2012 ● Invention of Pulsarlube E & passed IECEX/ATEX/UL Certification
- 2013 ● Foundation of Sales Office in Shanghai, China
- 2014 ● Invention of Pulsarlube Mi
- 2015 ● Invention of Pulsarlube PLC
- 2016 ● Launch of Customized Lubricant Business
- 2017 ● Invention of Pulsarlube EXP
- 2018 ● Invention of electromechanical Pulsarlube EXPL ● Invention of Pulsarlube BT
- 2019 ● Invention of Pulsarlube AIR

Why Use Pulsarlube?

Is Your Equipment Well Maintained?

Many organizations are aware that excellent lubrication is a crucial step and a good investment to optimize machinery life. However in reality, the lubrication budget is often treated as secondary and is frequently one of the first areas for budget cuts. It can be difficult to find the right way, the right time, and the right amount to lubricate while determining what the “best lubrication solution” is for your machinery because optimum lubrication practices require skill, time, manpower, and money. PULSARLUBE offers a variety of lubrication products to solve all of your lubrication needs.



We Provide The Best Lubrication Solutions For Your Machinery

Accurate automatic lubrication can extend bearing life which will reduce replacement/repair cost and avoid unnecessary downtimes.



Pulsarlube is the most effective solution to lubricate your equipment.

Pulsarlube Automatic Lubricators: A Variety of Lubrication Solutions for Most Applications and Environments

Pulsarlube lubricators demonstrate definitive advantages over the competition.

High Operating Pressure

High operating pressures enables customers to have a variety of installation methods and options.

10m

Up to 10m (33ft) for single point remote installations.

8 points

Up to 8 lube points for multi-point lubrication.

Wide Temperature Range

Our technology offers benefits in a wide range of ambient temperatures.

N_2

Inert nitrogen gas is less affected by changes in ambient temperature.

Lithium Battery

Optional lithium battery offers excellent performance in low temperatures.

Pulsarlube offers a variety of solutions that can significantly increase your bottom line.

Pulsarlube at a Glance

Pulsarlube Product Line
Total Lubrication Solutions

Pulsarlube E

Features
Intrinsically Safe, Compact, Economical, Submersible

Replacement Method
Disposable

Operating Pressure
Max. 5bar (73psi)

Grease Pouch Capacity
60/120/240ml



Electrochemical

Pulsarlube M

Features
High Operating Pressure, Multi-Point Lubrication Capabilities, and Low Temp Capabilities

Replacement Method
Service Pack Replacement

Operating Pressure
30~60bar (435~870psi)

Grease Pouch Capacity
60/125/250/500ml



Electromechanical

Pulsarlube MS & MSP

Features
Efficient Lubrication by Synchronizing Operation to Machine's Electrical Power

Replacement Method
Service Pack Replacement

Operating Pressure
30~60bar (435~870psi)

Grease Pouch Capacity
60/125/250/500ml



Electromechanical - Synchronizing

Pulsarlube V

Features
Intrinsically Safe, LCD Display, Advanced Microprocessor, Controlled Gas Generation

Replacement Method
Disposable

Operating Pressure
Max. 5bar (73psi)

Grease Pouch Capacity
125/250ml



Pulsarlube EXP/EXPL

Features
Competitive Global Certifications for Use in Hazardous Locations, Multi-Point Lubrication Capabilities

Replacement Method
Service Pack Replacement

Operating Pressure
30~60bar (435~870psi)

Grease Pouch Capacity
60/120/240/480ml



Pulsarlube Mi

Features
Efficient Lubrication by Synchronizing Operation to Machine's Vibration. No Electrical Wiring Needed.

Replacement Method
Service Pack Replacement

Operating Pressure
30~60bar (435~870psi)

Grease Pouch Capacity
60/125/250ml



Pulsarlube
BT

Features
Bluetooth-enabled
Automatic Electromechanical Lubricator

Replacement Method
Service Pack Replacement

Operating Pressure
30~60bar (435~870psi)

Grease Pouch Capacity
60/120/240ml



Electromechanical - Remote Management

Pulsarlube
OL500

Features
Refillable, Compatible with a Wide Range of Oil Viscosity, Multi-Point Capability

Replacement Method
Oil Refillable

Operating Pressure
Max. 10bar (145psi)

Oil Reservoir Capacity
500ml



Oiler

Pulsarlube
S

Features
Refillable, Unique Design Reduces Effects of Oil Separation

Replacement Method
Refillable

Grease Pouch Capacity
100ml



Spring

Pulsarlube
PLC

Features
Manage Dispensing Rates through PLC, Signal Out to External Alarm for Warning / Error Messages

Replacement Method
Service Pack Replacement

Operating Pressure
30~60bar (435~870psi)

Grease Pouch Capacity
60/120/240/480ml



Pulsarlube
EO

Features
Compact, Economical

Replacement Method
Disposable

Operating Pressure
Max. 5bar (73psi)

Oil Reservoir Capacity
60/120/240ml



Industries & Applications

Automotive
Chains
Lifts
Electric Motors
Conveyors
Loaders
HVAC Systems

Steel
Loaders
Conveyors
Electric Motors
Blowers
Fans
Pumps

Cement
Conveyors
Electric Motors
Blowers
Fans
Pumps

Mining
Mobile Equipment
Conveyors
Electric Motors
Pumps
Crushers

Pulp & Paper
Conveyors
Electric Motors
Blowers
Pumps
Paper Machines



Petrochemical

Electric Motors
Blowers
Pumps
Air Compressors

Power Plant

Water Pumps
Electric Motors
Conveyors
Boilers
Air Handling Units
Heaters

Food & Beverage

Conveyors
Electric Motors
Blowers
Pumps
Cooling Towers
Air Handling Units

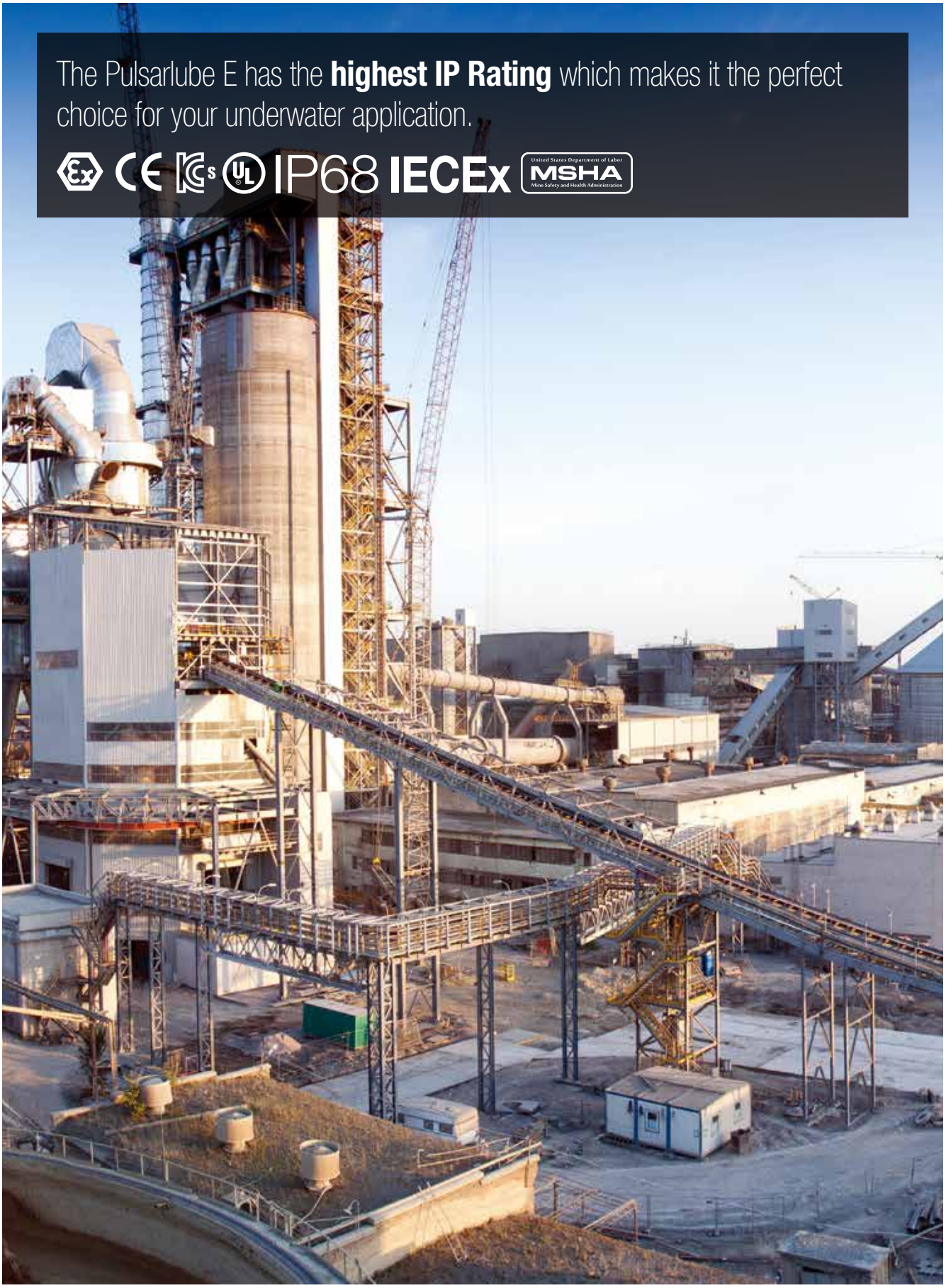
Semiconductor

Air Handling Units
Clean Rooms
Cooling Towers
SMD PCB Lines
LCD Panels
Loader Robots
Wet Scrubbers

Marine

Mooring Winch
Doors
Cranes
Pumps
Electric Motors




The Pulsarlube E has the highest IP Rating which makes it the perfect choice for your underwater application.
IP68 IECEx
United States Department of Labor
MSHA
Mine Safety and Health Administration

Electrochemical

Pulsarlube E
Compact & Economical

The Pulsarlube E features compact size which can easily be installed in confined areas with limited accessibility. This eco-friendly product is recyclable.



Features & Benefits



Compact design is convenient for use in very confined spaces & Specially designed to endure high vibration

Eco-friendly product where applicable parts can be disposed of separately

ATEX

CE, ATEX, UL certified for intrinsically safe use in hazardous locations

IP68

High IP rating protects against ingress of dust and water and allows underwater installation

Specifications

Grease Pouch Capacity
60ml/120ml/240ml (disposable)

Operating Method
Electrochemical reaction (Nitrogen gas)

Operating Pressure
Max. 5bar (73psi)

Operating Temperature
-20˚C~55˚C (-4˚F~131˚F)

Dispensing Periods
1, 3, 6, 9, 12 month

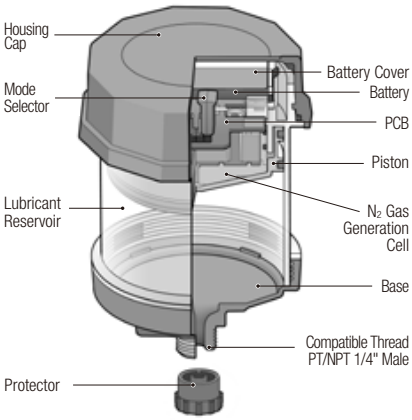
Remote Installation
Max. 1m (3.3ft) with O.D. Ø8 tube

Multi-Point Installation
N/A

IP Code
IP68

Product Certifications
ATEX, UL, IECEx, KCs, CE, MSHA

Cross Section

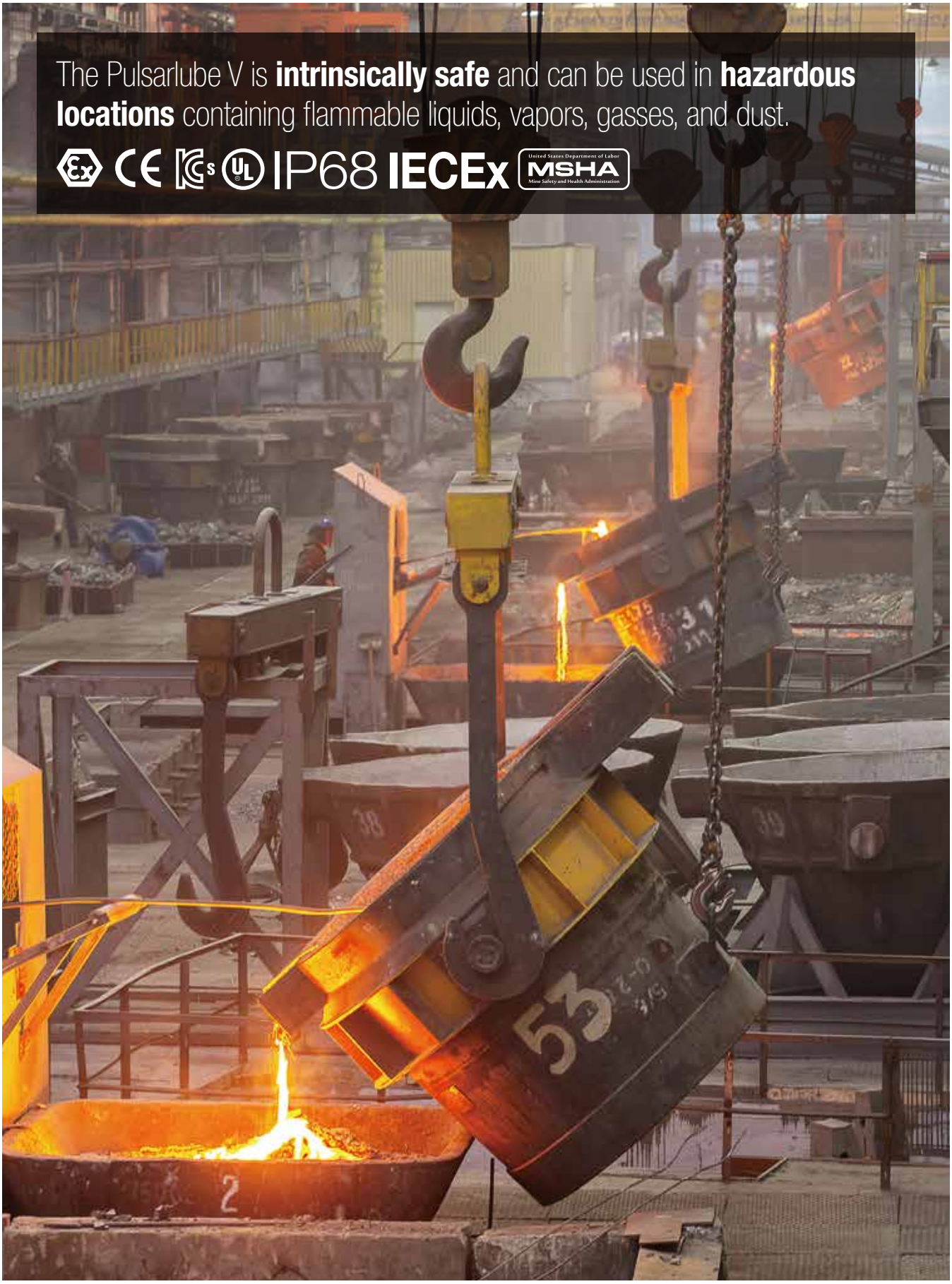


Product Dimension
E60 : Ø77(3.03") x 91mm(3.58")(H)
E120 : Ø77(3.03") x 111mm(4.37")(H)
E240 : Ø77(3.03") x 156mm(6.14")(H)

Applications



CEMENT | PULP & PAPER | MINING | CONVEYORS | WASTE DISPOSAL | MARINE


The Pulsarlube V is **intrinsically safe** and can be used in **hazardous locations** containing flammable liquids, vapors, gasses, and dust.
IP68 IECEx
MSHA
53
2

Electrochemical

Pulsarlube V

Advanced Performance & Smart Operation

The Pulsarlube V is an easy-to-program gas type lubricator which offers a large user-friendly LCD display.



Features & Benefits



Variable dispensing settings with a large informative LCD display & Easy to reprogram at any time with a press of a button



8-bit microprocessor controlled to ensure the most accurate dispensing rate

ATEX

CE, ATEX, UL certified for intrinsically safe use in hazardous locations

IP68

High IP rating protects against ingress of dust and water and allows underwater installation

Specifications

Grease Pouch Capacity
125ml/250ml (disposable)

Operating Method
Electrochemical reaction (Nitrogen gas)

Operating Pressure
Max. 5bar (73psi)

Operating Temperature
-20˚C~55˚C (-4˚F~131˚F)

Dispensing Periods
1, 2, 3, 6, 12 month & Purge (P)

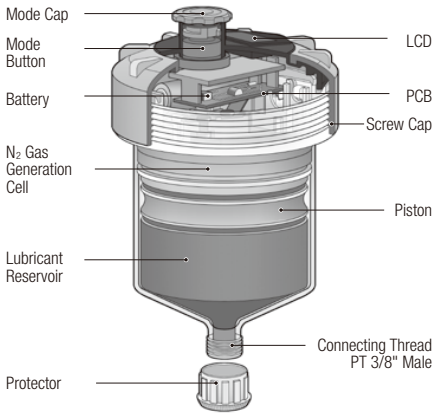
Remote Installation
Max. 1m (3.3ft) with O.D. Ø8 tube

Multi-Point Installation
N/A

IP Code
IP68

Product Certifications
ATEX, UL, IECEx, KCs, CE, MSHA

Cross Section



Product Dimension
V125 : Ø97(3.81") x 128mm(5.04")(H)
V250 : Ø97(3.81") x 166mm(6.53")(H)

Applications

PULP & PAPER | STEEL MILLS | CEMENT | BLOWERS | ELECTRIC MOTORS

Electromechanical

Pulsarlube M

Unrivaled Power & Long-Term Reliability

The Pulsarlube M consists of a vertical feed pump and a microprocessor chip allowing an average operating pressure of 30bar (435psi). It is designed to ensure reliable lubrication and is a lubrication cost savings solution.



Specifications

Grease Pouch Capacity
60ml (pre-set)
125ml/250ml
(capacity setting available)
500ml (pre-set)

Power Supply
DC 4.5V Battery Pack

Operating Pressure
30~60bar (435~870psi)

Operating Temperature
Standard Alkaline Battery :
-15˚C~60˚C (5˚F~140˚F)
Optional Lithium Battery :
-40˚C~60˚C (-40˚F~140˚F)

Dispensing Periods
60ml : 1~12 month
125ml/250ml : 1, 2, 3, 6, 12 month & H (15 days)
500ml : 1, 2, 4, 6, 12, 18, 24 month & H (15 days)

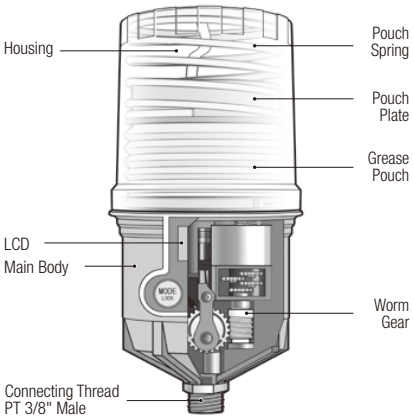
Remote Installation
Max. 10m (33ft) with O.D. Ø6 tube

Multi-Point Installation
Max. 6m (20ft) with O.D. Ø6 tube
(Up to 8 lube points)

IP Code
IP54

Product Certifications
CE

Cross Section



Product Dimension
M60, M125 : Ø91(3.60") x 181mm(7.13")(H)
M250 : Ø91(3.60") x 210mm(8.27")(H)
M500 : Ø92(3.62") x 260mm(10.23")(H)

Features & Benefits

30bar	High output pressure enables multi-point lubrication up to 8 points or over 30ft single point lubrication
-40°C	Covers low temp applications with use of lithium battery pack
LCD	Easy to program with built-in LCD and simple button controls
Service Pack	Substantial savings with the use of replaceable grease pouches and battery packs

Applications



Service Packs

Substantial Cost Savings

Pulsarlube electromechanical lubricators are reusable and bring cost saving benefits to customers with the use of a replacement kit, the Service Pack.

A Service Pack consists of
A grease pouch of selectable lubricant type in various volumes

An OEM battery pack :
DC 4.5V Alkaline battery pack (standard) or DC 4.5V Lithium battery pack
* Note : A battery pack is not included in MSP and PLC service packs.

A disposable dust cover :
PVC dust cover (standard) or U/V protection dust cover
* Note : A dust cover is not included in PLC service packs.

⚠ Warning
The grease pouch and battery pack must always be replaced together at the end of each lubrication cycle to ensure reliable operation.

Service Pack Sizes (Grease Pouch Capacity)

60ml	120/125ml
	
240/250ml	**480/500ml**
	

Battery Pack Selection Guide

Applications	Alkaline Battery Pack (Standard)	Lithium Battery Pack (Optional)
Direct Mount	OK	OK
Operating Temp Range	-15°C~60°C (5°F~140°F)	-40°C~60°C (-40°F~140°F)
Programming	Up to 12 months	Up to 24 months
Remote Installation	Up to 3m (10ft) on a single line	Up to 6m (20ft) per line
Multi-Point Lubrication	Up to 8 points with max. 250ml capacity	Up to 8 points for all capacities
500ml Grease Pouch	Direct mount or short single point remote installation only	All types of installations


Globally certified electromechanical lubricator for reliable lubrication in areas containing flammable medium.
II 3 G Ex ic IIC T5/T4 Gc DEKRA17ATEX0012X
Ex ic IIC T5/T4 17-KA2BO-0115X
IECEx Ex ic IIC T5/T4 Gc IECEx KTL 17.0001X
Ex ic IIC T5/T4 Gc NEPSI GYJ17.1038X
TD040272
單點式自動注油機 (Pulsarlube EXP)
EXP60
Ex i c IIC T5/T4 Gc
容許電壓：4.5 Vdc
TD040272
KLT Co Ltd
CE IP65
II 3 G Ex ic IIB T4 Gc DEKRA17ATEX0012X
Ex ic IIB T4 18-KA2BO-0463X
IECEx Ex ic IIB T4 Gc IECEx KTL17.0001X
Ex ic IIB T4 Gc NEPSI GYJ17.1038X
intertek 5011230
Class I, Division 2, Groups A, B, C, & D, T4
Class II, Division 2, Groups F, G, T4
-18°C ≤ Tamb ≤ 54°C (Alkaline batteries)
-30°C ≤ Tamb ≤ 50°C (Lithium batteries)
Conforms to UL Std. 121201
Cert. to CSA Std. C22.2 NO. 213
CE IP65

Electromechanical

Pulsarlube EXP/EXPL

Globally Certified for Use in Hazardous Areas

The Pulsarlube EXP/EXPL is specifically designed and certified for protection against explosive gases or dust existing in hazardous locations.



Features & Benefits



Easy to check LCD display with backlight function



Reliable lubricator certified for safe use in hazardous areas



High operating pressure allows superior performance in its class



Substantial savings with the use of replaceable grease pouches and battery packs

* For replacement kit information, please refer to Service Pack on Page 15.

Specifications

Grease Pouch Capacity
60ml/120ml/240ml/480ml (pre-set)

Power Supply
DC 4.5V Battery Pack (replaceable)
Standard : Alkaline Battery
Optional : Lithium Battery

Operating Pressure
30~60bar (435~870psi)

Operating Temperature
EXP : 0˚C~50˚C
EXPL : -15˚C~50˚C

Dispensing Periods
60ml : 1~12 month
120ml~480ml :
1, 2, 3, 6, 9, 12 month

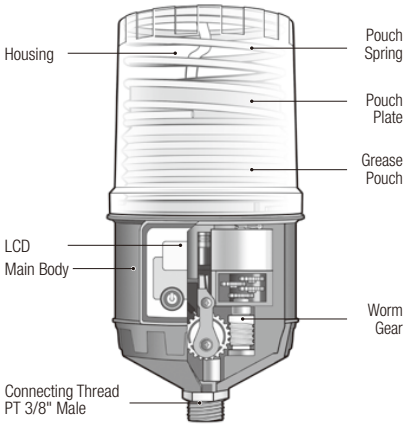
Remote Installation
Lithium Battery :
Max. 6m (20ft) with O.D. Ø6 tube

Multi-Point Installation
Lithium Battery : Max. 3m (10ft)
with O.D. Ø6 tube (Up to 8 lube points)

IP Code
IP65

Product Certifications
EXP : ATEX, IECEx, KCs, CE, NEPSI, TS
EXPL : ATEX, ETL, IECEx, KCs, CE, NEPSI

Cross Section



Product Dimension
EXP/EXPL60, EXP/EXPL120 : Ø91(3.60") x 181mm(7.13")(H)
EXP/EXPL240 : Ø91(3.60") x 208mm(8.19")(H)
EXP/EXPL480 : Ø92(3.62") x 260mm(10.23")(H)

Applications



PETROCHEMICAL PLANTS | NUCLEAR POWER PLANTS | OIL & GAS | THERMAL POWER PLANTS | ELECTRIC MOTORS

Electromechanical - Synchronizing

Pulsarlube MS & MSP

Synchronize to Electrical Power

The Pulsarlube MS & MSP units offer the advantage of providing automatic lubrication to machinery that is infrequently or intermittently used by synchronizing itself to the equipment's electrical power, thereby avoiding the problem of over lubrication.



* For replacement kit information, please refer to Service Pack on Page 15.

Specifications

Grease Pouch Capacity
60ml (pre-set)
125ml/250ml
(capacity setting available)
500ml (pre-set)

Power Supply
MS : DC 4.5V Battery Pack
MSP : External Power Supply
(DC or AC)

Operating Pressure
30~60bar (435~870psi)

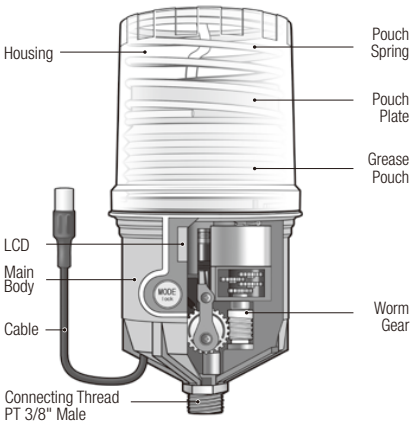
Operating Temperature
Standard Alkaline Battery :
-15˚C~60˚C (5˚F~140˚F)
Optional Lithium Battery :
-40˚C~60˚C (-40˚F~140˚F)

Dispensing Periods
60ml : 1~12 month
125ml/250ml : 1, 2, 3, 6, 12 month & H (15 days)
500ml : 1, 2, 4, 6, 12, 18, 24 month & H (15 days)

Remote Installation
Max. 10m (33ft) with O.D. Ø6 tube

Multi-Point Installation
Max. 6m (20ft) with O.D.
Ø6 tube (Up to 8 lube points)

Cross Section

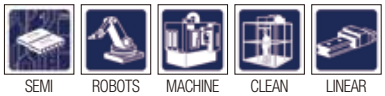


Product Dimension
MS60, MS125 (MSP60, MSP125) : Ø91(3.60") x 181mm (7.13") (H)
MS250 (MSP250) : Ø91(3.60") x 210mm (8.27") (H)
MS500 (MSP500) : Ø92(3.62") x 260mm (10.23") (H)

Features & Benefits

Synchronized	Dispenses a preset amount of lubricant only when the equipment is in operation to prevent over lubrication
30bar	Robust operating pressure allows multi point lubrication up to 8 points, 20ft remote install per point
LCD	Easy to read LCD displays critical information
Service Pack	Substantial savings with the use of replaceable grease pouches and battery packs

Applications



SEMI CONDUCTOR | ROBOTS | MACHINE TOOLS | CLEAN ROOMS | LINEAR GUIDES

MS & MSP Product Selection

The MS and MSP units both synchronize to machinery but are engineered differently in order to meet customer's specifications for their equipment. The MS unit turns On or Off through a relay box in accordance with the related equipment's power signal. The MSP unit connects to a power supply (VAC or VDC) that is connected to an electrical control panel.



Pulsarlube MS

Uses a battery pack as its power source.

MS+Relay Box+Service Pack

* Battery pack has to be replaced along with grease pouch.
* The Pulsarlube MS is not an externally powered unit.



Pulsarlube MSP

Uses external power as its power source.

MSP+Power Supply (VAC or VDC)+Service Pack

* An initial battery pack is included in the MSP as a backup power source to store data when power is shut off. The battery pack in the MSP does not need to be replaced for up to 5 years.
* The Pulsarlube MSP is also available for oil (MSP-OL500).

MS Relay / MSP Power Supply Specification

	MS	MSP	
	Relay	VAC	VDC
Voltage Rate Input Range	AC100~480V, 0.5W/50~60Hz	100~220V	12~24V
Voltage Rate Output Range	Signal (Open collector type)	5.0V, 2A	
Power ON Indicator	Red LED on Relay Box or Power Supply		
Relay Box Dimensions	85mm (D) × 49mm (W) × 32mm (H)		
Wire Length	From Lubricator : 90mm Input from Relay Box/Power Supply to lubricator : 1m (3.3ft) Output from Relay Box/Power Supply to equipment : 4m (13ft)		



Electromechanical - Synchronizing

Pulsarlube Mi

Synchronize Operation to Vibration

The Pulsarlube Mi operates only when machine operates by detecting vibration on the installed application.



* For replacement kit information, please refer to Service Pack on Page 15.

Specifications

Grease Pouch Capacity
60ml/125ml/250ml
(capacity setting available)

Power Supply
DC 4.5V Battery Pack

Operating Pressure
30~60bar (435~870psi)

Operating Temperature
Standard Alkaline Battery :
-15˚C~60˚C (5˚F~140˚F)
Optional Lithium Battery :
-40˚C~60˚C (-40˚F~140˚F)

Dispensing Periods
1~12 month

Remote Installation
Max. 1m (3.3ft) with O.D. Ø6 tube

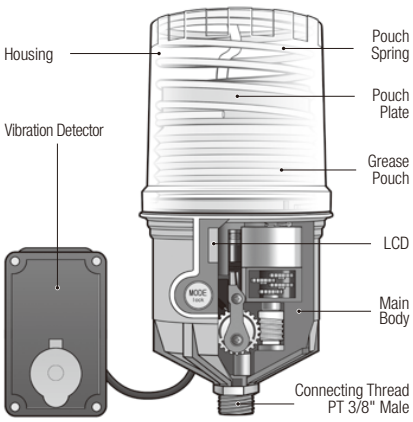
Multi-Point Installation
Max. 1m (3.3ft) with O.D. Ø6 tube
(Up to 2 lube points)

Product Certifications
CE

Vibration Detector
- Piezoelectric Cantilever-type Film Sensor
- Adjustable Sensitivity Range

Wire Length
- To Lubricator : 150mm (0.5ft)
- Sensor Cable : 1.2m (4ft)

Cross Section



Product Dimension
Mi 60, Mi 125 : Ø91(3.60") x 181mm (7.13") (H)
Mi 250 : Ø91(3.60") x 208mm (8.19") (H)

Features & Benefits

Vibration Sensor	Vibration sensor allows the unit to lubricate only when the application is operating
Easy Installation	No need for external electric wiring or other power cables
Service Pack	Substantial savings with the use of replaceable grease pouches and battery packs
Simple & Precise	Simple to operate & dispenses precise amounts of lubricant reliably

Applications



HVAC SYSTEMS | CONVEYORS | ESCALATORS | ELECTRIC MOTORS | BALL BEARINGS


Industry's first and only **Bluetooth-enabled** electromechanical lubricator controlled conveniently using the Pulsarlube mobile APP.
KLT Co., Ltd.
型号(Model):
BT60 CMIIT ID: 2019DJ0846
BT120 CMIIT ID: 2019DJ0847
BT240 CMIIT ID: 2019DJ1090
IP65

Electromechanical
- Remote Management

Pulsarlube BT

Enhanced Convenience

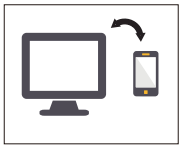
The Pulsarlube BT is the world's first and only Bluetooth-enabled electromechanical lubricator. Advanced connectivity adds great value to convenience & safety for the lubrication management & control program.



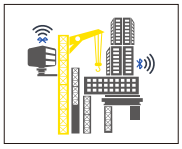
Features & Benefits



Real-time pairing between mobile device and lubricator



Easily share information between mobile device and database server



Remotely monitor lubricator status in hazardous and inaccessible work areas via mobile App



Substantial savings with the use of replaceable grease pouches and battery packs

* For replacement kit information, please refer to Service Pack on Page 15.

Specifications

Grease Pouch Capacity
60ml/120ml/240ml (pre-set)

Power Supply
DC 4.5V Battery Pack (replaceable)
Standard : Alkaline Battery
Optional : Lithium Battery

Operating Pressure
30~60bar (435~870psi)

Operating Temperature
Standard Alkaline Battery :
-15˚C~60˚C (5˚F~140˚F)
Optional Lithium Battery :
-40˚C~60˚C (-40˚F~140˚F)

Dispensing Periods
1~12 month

Remote Installation
Max. 6m (20ft) with O.D. Ø6 tube

Multi-Point Installation
Max. 3m (10ft) with O.D. Ø6 tube
(Up to 8 lube points)

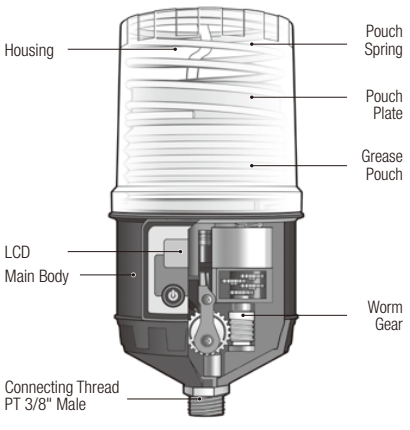
Detection Range
5~20m (16.4ft~65.6ft) depending on installation environment

Bluetooth Specification
Bluetooth 4.1 (class 2)

IP Code
IP65

Product Certifications
CE, KC, FCC, SIG, NCC, RCM, SRRC, NBTC, ICASA, J-MIC

Cross Section

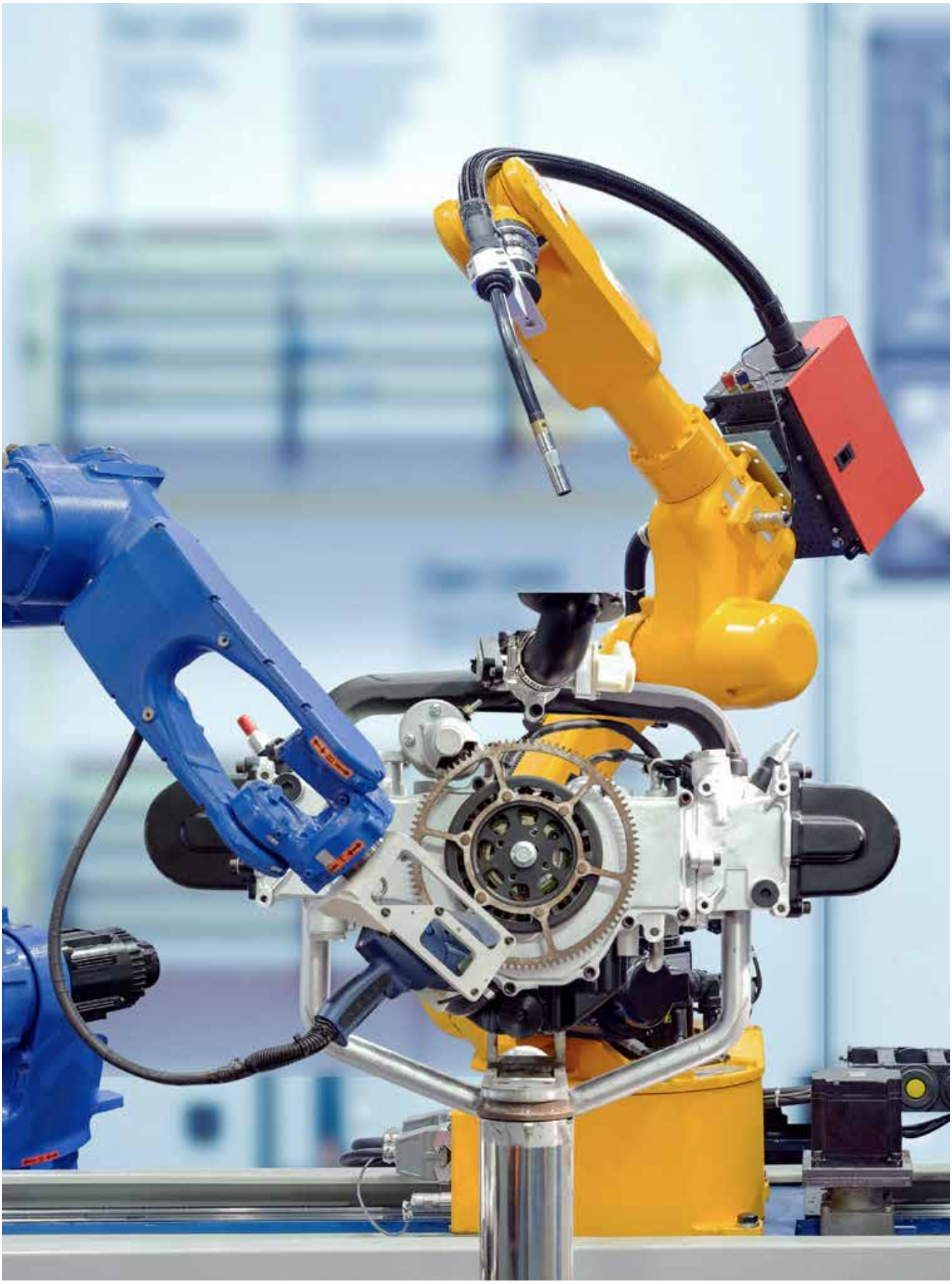


Product Dimension
BT60, BT120 : Ø91(3.60") x 181mm(7.13") (H)
BT240 : Ø91(3.60") x 208mm(8.19") (H)

Applications



PETROCHEMICAL PLANTS | CLEAN ROOMS | HVAC SYSTEMS | ELECTRIC MOTORS | COOLING TOWERS



Electromechanical
- Remote Management

Pulsarlube PLC

PLC Controlled & High Performance

The Pulsarlube PLC is specially designed to be fully integrated with a PLC system and offered in two types; MONTH and INTERVAL type.



* For replacement kit information, please refer to Service Pack on Page 15.

Specifications

Grease Pouch Capacity
60ml/120ml/240ml/480ml (pre-set)

Power Supply
Power Supply : Externally Powered (DC 9V ~ 36V)

Operating Pressure
30~60bar (435~870psi)

Operating Temperature
-20˚C~60˚C (-4˚F~140˚F)

Dispensing Periods
MONTH type : 1~12 month
INTERVAL type :
1, 2, 3…6 Mode

Remote Installation
Max. 10m (33ft) with O.D. Ø6 tube

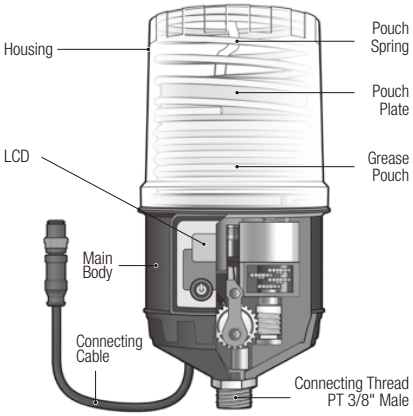
Multi-Point Installation
Max. 6m (20ft) with O.D. Ø6 tube (Up to 8 lube points)

Product Certifications
CE, KC

1 Per Stroke (@20˚C)
MONTH type :
0.34ml / Stroke (@20˚C)
INTERVAL type :
0.34ml x Mode selected (@20˚C)

Wire Length
- To Lubricator : 150mm (0.5ft)
- Extra connecting wires available for Purchase

Cross Section



Product Dimension
PLC60, PLC125 : Ø91(3.60") x 181mm (7.13") (H)
PLC240 : Ø91(3.60") x 208mm (8.19") (H)
PLC480 : Ø92(3.62") x 260mm (10.23") (H)

Features & Benefits

PLC Control	Programmed to operate upon receiving a signal from the PLC
Convenience	Sends a signal to external alarm when encountering excessive backpressure or when dispensing cycle is completed
Connectivity	Both NPN and PNP connections are available
Flexibility	**MON type** dispenses at preset intervals and rates depending on the monthly setting selected **INT type** dispenses on command when a signal is received from the PLC, at the rate selected by the user

Applications



Oiler

Pulsarlube OL500

Compatible with a Wide Range of Oil Viscosity

The Pulsarlube OL500 is specifically designed to deliver a fresh, consistent, and precise amount of oil to all of the vital parts of your rotating equipment.



Specifications

Oil Reservoir Capacity
500ml (refillable)

Power Supply
DC 4.5V Battery Pack

Operating Pressure
10bar (145psi)
(depends on oil viscosity)

Operating Temperature
Standard Alkaline Battery :
-15˚C~60˚C (5˚F~140˚F)

Remote Installation
Max. 6m (20ft) with O.D. Ø4 tube

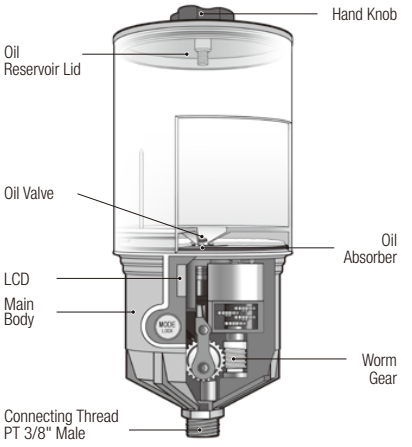
Multi-Point Installation
Max. 3m (10ft) with O.D. Ø4 tube
(Up to 4 lube points)

Oil Viscosity Range
10~10,000 cSt@40˚C

* Special instructions available on user manual for low viscosity oils (10~100cSt@40C)

Dispensing Periods
1, 2, 4, 6, 12, 18, 24 month & H (15 days)

Cross Section



Product Dimension
OL500 : Ø94 (3.70") x 229 mm (9.02") (H)

Features & Benefits

Cost Savings	Refillable oil reservoir and multi-point lubrication capability
Adaptability	Able to handle a wide range of oil viscosity
LCD	Easy to program with built-in LCD and simple button controls
Easy to Refill	Refillable on-site

Applications



ESCALATORS CHAINS

Oiler

Pulsarlube EO

Highly Cost Effective Gas Type Oiler

The Pulsarlube EO is a low-cost oil lubrication solution which utilizes a non-return valve (NRV) to allow reliable lubrication while minimizing oil leaks.



Specifications

Oil Reservoir Capacity
60ml/120ml/240ml (disposable)

Operating Method
Electrochemical reaction (Nitrogen gas)

Operating Pressure
Max. 5bar (73psi)

Operating Temperature
-20˚C~55˚C (-4˚F~131˚F)

Dispensing Periods
1, 3, 6, 9, 12 month

Remote Installation
Max. 3m (10ft) with O.D. Ø4 tube

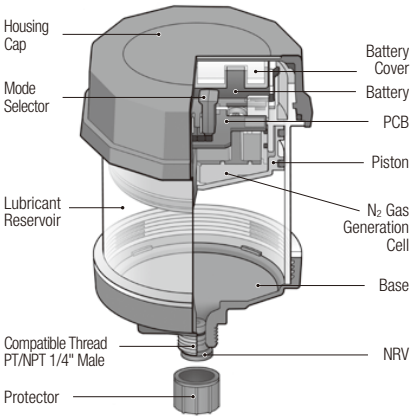
Multi-Point Installation
N/A

Product Certifications
ATEX, UL, IECEx, KCs, CE, MSHA

Oil Viscosity Range
10~10,000 cSt@40˚C

* Special instructions available on user manual for low viscosity oils (10~100cSt@40C)

Cross Section



Product Dimension
EO60 : Ø77(3.03") x 91mm(3.58")(H)
EO120 : Ø77(3.03") x 111mm(4.37")(H)
EO240 : Ø77(3.03") x 156mm(6.14")(H)

Features & Benefits

NRV	Specially designed non-return valve (NRV) allows the unit to be installed in any position minimizing oil leak
Compact Design	Compact size is convenient for use in confined spaces
Durability	Engineered to withstand high vibration
Eco-Friendly	The components of Pulsarlube EO can be disposed of and recycled separately conforming to local regulations

Applications





Spring

Pulsarlube S

Unique & Ingenious Design

The Pulsarlube S is an advanced spring type lubricator that operates with the spring at the bottom and an upward piston movement, which dramatically reduces the effects of oil separation that have plagued traditional spring type lubricators.



Specifications

Grease Pouch Capacity
100ml (refillable)

Operating Method
Spring

Operating Pressure
N/A

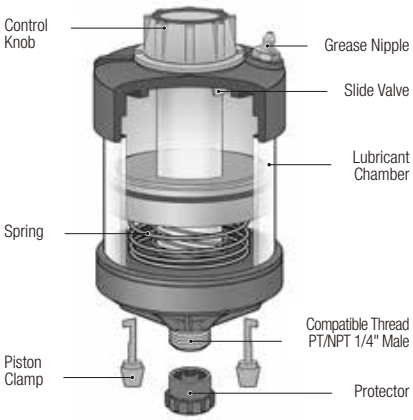
Operating Temperature
-23˚C~121˚C (-9˚F~250˚F)

Dispensing Periods
5 Dial Settings

Remote Installation
N/A

Multi-Point Installation
N/A

Cross Section



Product Dimension
S100 : Ø67 (2.64") x 129mm (5.08") (H)

Features & Benefits

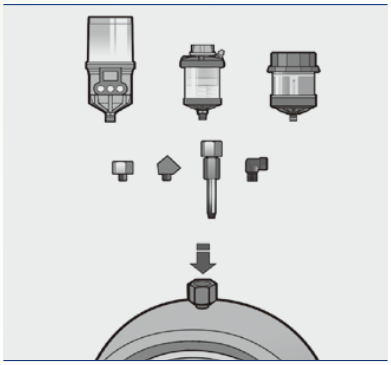
Design	The upward piston movement reduces oil separation and the possibility of grease hardening
Control Knob	Grease dispensing rate can be easily controlled by using the control knob
Reuse	Easy to refill grease on-site using grease nipple
Pre-Filled	Available pre-filled due to strategically placed piston clamps

Applications

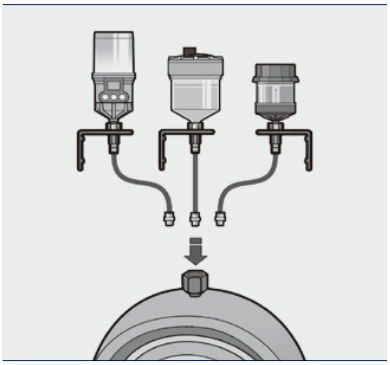


HVAC SYSTEMS | FANS | BALL BEARINGS | SEALED BEARINGS

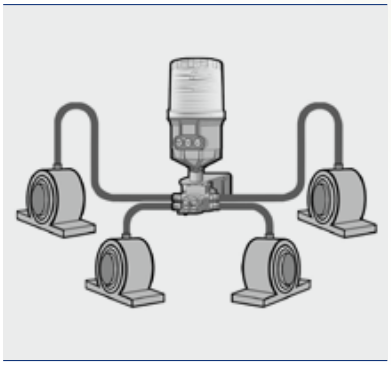
Pulsarlube Installation Options



Direct Mount



Single Point Remote Installation



Multi-Point Installation

Direct Mount

Prior to installing your lubricator, please refer to our full accessories list on the website to order necessary parts for your application.

Reducer	Socket	45° Elbow	90° Elbow	Pipe
				

Single Remote & Multi-Point Installation

Frequently used installation parts that are necessary to install Pulsarlube lubricators/oilers are packaged in a single assembly kit for your convenience. The kits are designed to meet all relevant standards. Please refer to the complete assembly kits chart below to order the right kit for your application. If further assistance is needed, please contact your local supplier.

Installation Kit Type		Gas Type Lubricator		Mechanical Lubricator
		E	V	M, EXP, EXPL, MS, MSP, BT, Mi, PLC
Single Point Kit	Single Point	2000RC-1	1000RC-1	1250RC-1
Multi-Point Kit	2 Point	–	–	1250MD-2
	3 Point	–	–	1250MD-3
	4 Point	–	–	1250MD-4
	5 Point	–	–	1250MD-5
	6 Point	–	–	1250MD-6
	7 Point	–	–	1250MD-7
	8 Point	–	–	1250MD-8

Pulsarlube Applications









Installation Kits & Accessories for Grease Lubrication





















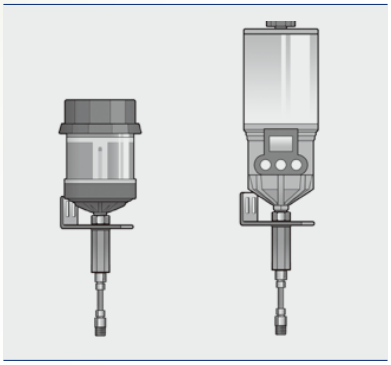




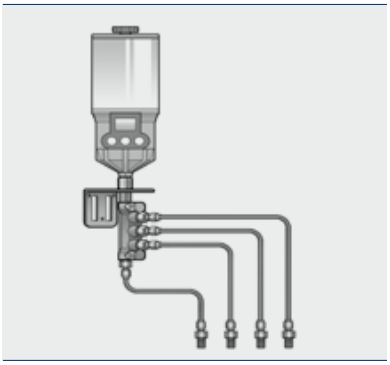


No.	Part No.	Specifications	Single Point			Multi-Point						
			2000 RC-1	1000 RC-1	1250 RC-1	1250 MD-2	1250 MD-3	1250 MD-4	1250 MD-5	1250 MD-6	1250 MD-7	1250 MD-8
1	A002	Reducer, 3/8"F x 1/8"M Adaptor (Brass)		●	●	●	●	●	●	●	●	●
2	A005	Reducer, 1/4"F x 1/8"M Adaptor (Brass)	●									
3	B002	Mounting Bracket, "L" Shape	●	●	●	●	●	●	●	●	●	●
4	B051	Self Drilling Screw, #8 x 20	●	●	●	●	●	●	●	●	●	●
5	HU-2RS	HU-2RS, Grease Type, 2 Ports				●						
	HU-3RS	HU-3RS, Grease Type, 3 Ports					●					
	HU-4RS	HU-4RS, Grease Type, 4 Ports						●				
	HU-5RS	HU-5RS, Grease Type, 5 Ports							●			
	HU-6RS	HU-6RS, Grease Type, 6 Ports								●		
	HU-7RS	HU-7RS, Grease Type, 7 Ports									●	
	HU-8RS	HU-8RS, Grease Type, 8 Ports										●
6	B057	Washer	●	●	●							
7	B058	Tooth Washer				●	●	●	●	●	●	●
8	A012	Socket, 1/8"F x 1/8"F Adaptor (Brass)	●	●	●							
9	A239	Tube Fitting, Push-In Type, PC8-PT1/8"M	●	●								
10	A240	Tube Fitting, Push-In Type, PC6-PT1/8"M			●	●	●	●	●	●	●	●
11	A214-1	Distribution Tubing, O.D. 1/4"(6mm) Nylon Tubing, 10ft Pre-filled with (Grease Type)			●	●	●	●	●	●	●	●
12	A212-1	Distribution Tubing, O.D. 5/16"(8mm) Urethan Tubing, 3ft Pre-filled with (Grease Type)	●	●								
13	A243	Thread Converter, PT1/8"F X NPT1/8"M (Brass) (USA only)	●	●	●	●	●	●	●	●	●	●

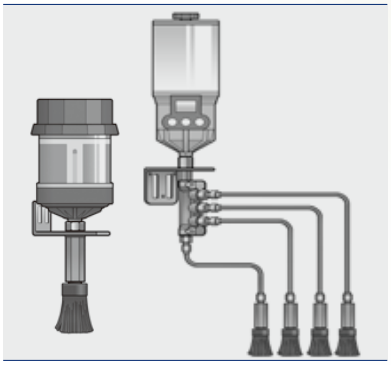
Pulsarlube Oiler Installation Options



Single Point Installation for Oilers



Multi-Point Installation for Oilers



Brush Kits for Oilers

Installation Kit Type		Gas Type Oiler	Mechanical Oiler
		EO	OL500
Single Point Kit	Single Point	C035	1250RO-1
Multi-Point Kit	2 Point	–	1250RO-2
	3 Point	–	1250RO-3
	4 Point	–	1250RO-4
Brush Kit	Flat Nylon Brush	C036	C030
	Round Nylon Brush	C037	C031
	Flat Steel Brush	C038	C032
	Round Steel Brush	C039	C033

Application Solutions









Installation Kits & Accessories for Oil Lubrication



Installation Kits & Accessories for Oil Lubrication - Continued

No.	Part No.	Specifications	Single Point		Multi-Point		
			C035	1250RO-1	1250RO-2	1250RO-3	1250RO-4
1	A002	Reducer, 3/8"F x 1/8"M Adaptor (Brass)		○	●	●	●
2	A005	Reducer, 1/4"F x 1/8"M Adaptor (Brass)	○				
3	A012	Socket, 1/8"F x 1/8"F Adaptor	○	○			
5	C004-1	Resistance Valve, #1 Distributor Spray (one-touch type)			●	●	●
6	C006	Reducer, PT 1/8"F x M8 x 1P			●	●	●
7	C007	Tube Fitting, Dia. 4mm x PT1/8"M	○	○	●	●	●
8	B002	Mounting Bracket, "L" Shape	○	○	●	●	●
10	B051	Self Drilling Screw, #8 x 20	○	○	●	●	●
11	C009	Sleeve Ring, Dia. 4mm	○	○	●	●	●
12	C011	Insert, Dia. 4mm x 2.5mm	○	○	●	●	●
13	C010	Tube Clamp, Dia. 4mm x 1R	○	○	●	●	●
14	B057	Washer	○	○	●	●	●
16	C003-1	Distributor, 3 (1P) M8 x 1P			●		
17	C003-2	Distributor, 4 (2P) M8 x 1P				●	
18	C003-3	Distributor, 5 (3P) M8 x 1P					●
19	C021-1 ~ C021-4	O.D. 4mm Nylon Tubing (Clear), 10ft (3m) ~ 40ft (12m)	○	○	●	●	●

No.	Part No.	Specifications	EO Brush Kit				OL Brush Kit			
			C036	C037	C038	C039	C030	C031	C032	C033
1	A002	Reducer, 3/8"F x 1/8"M Adaptor (Brass)					●	●	●	●
2	A005	Reducer, 1/4"F x 1/8"M Adaptor (Brass)	○	○	○	○				
4	C012	Socket, PT1/8"F x NPT1/8"F	○	○	○	○	●	●	●	●
9	B003	Oil Brush Bracket, "L"Shape	○	○	○	○	●	●	●	●
10	B051	Self Drilling Screw, #8 x 20	○	○	○	○	●	●	●	●
14	B057	Washer	○	○	○	○	●	●	●	●
15	B058	Tooth Washer	○	○	○	○	●	●	●	●
20	C013	Oil Brush, 2" Flat Stainless Steel, NPT1/8"M			○				●	
21	C014	Oil Brush, 1" Round Stainless Steel, NPT1/8"M				○				●
22	C001	Oil Brush, 2" Flat Nylon, NPT1/8"M	○				●			
23	C002	Oil Brush, 1" Round Nylon, NPT1/8"M		○				●		

Pulsarlube Grease Guide

Pulsarlube Standard Grease

Grease Code	Region	Application	Base Oil	Temperature	NLGI #	Thickener	Color
PL1	●	Multipurpose	Mineral	-20˚C~150˚C	1.5	Lithium Complex	Yellow
PL2	● ●	Heavy Duty	Mineral	-15˚C~170˚C	1	Aluminum Complex	Black
	●			-30˚C~180˚C	1	Calcium Sulfonate	Grey
PL3	●	High Speed	Mineral	-30˚C~130˚C	1.5	Lithium Complex	Yellowish Brown
PL4	●	Food Grade	Synthetic	-40˚C~200˚C	2	Calcium Sulfonate Complex	White
	●		Synthetic	-40˚C~200˚C	2	Calcium Sulfonate Complex	Off-White
	●		Mineral	-20˚C~120˚C	2	Aluminum Complex	White
PL5	● ●	High Temperature	Mineral	-15˚C~160˚C	1	Polyurea	Beige
	●		Synthetic	-40˚C~150˚C	2	Lithium Complex	Red
PL6	●	Multipurpose with MoS_2	Mineral	-20˚C~140˚C	2	Lithium Complex	Grey Black
	● ●		Synthetic	-40˚C~170˚C	1	Lithium Complex	Grey
PL7	●	Low Temperature	Synthetic	-40˚C~170˚C	1	Lithium Complex	Gold
PL8	●	Biodegradable	Synthetic	-30˚C~130˚C	2	Lithium	Dark Yellow
PL10	●	Motor Bearing	Mineral	-20˚C~160˚C	2	Polyurea	Blue
	●	Motor Bearing	Mineral+Synthetic	-25˚C~150˚C	2	Lithium	Beige

● Pulsarlube USA (North and South America) ● Pulsarlube GmbH (Europe) ● Pulsarlube Asia Pacific (Asia, Oceania, Africa) ● Worldwide
Pulsarlube standard grease specifications may change due to supplier's demand. For non-standard grease, please contact your supplier for availability.

Grease Thickener Compatibility Chart

	Aluminum Complex	Barium Complex	Calcium Stearate	Calcium 12 Hydroxy	Calcium Complex	Calcium Sulfonate	Clay Non-soap	Lithium Stearate	Lithium 12 Hydroxy	Lithium Complex	Polyurea Conventional	Polyurea Shear Stable
Aluminum Complex		x	x	●	x	▲	x	x	x	●	x	●
Barium Complex	x		x	●	x	●	x	x	x	x	x	▲
Calcium Stearate	x	x		●	x	●	●	●	▲	●	x	●
Calcium 12 Hydroxy	●	●	●		▲	▲	●	●	●	●	x	●
Calcium Complex	x	x	x	▲		x	x	x	x	●	●	●
Calcium Sulfonate	▲	●	●	▲	x		x	▲	▲	●	x	●
Clay Non-soap	x	x	●	●	x	x		x	x	x	x	▲
Lithium Stearate	x	x	●	●	x	▲	x		●	●	x	●
Lithium 12 Hydroxy	x	x	▲	●	x	▲	x	●		●	x	●
Lithium Complex	●	x	●	●	●	●	x	●	●		x	●
Polyurea Conventional	x	x	x	x	●	x	x	x	x	x		●
Polyurea Shear Stable	●	▲	●	●	●	●	▲	●	●	●	●	

▲ Test required ● Compatible **X** Incompatible

Pulsarlube Installation Guide

● Recommended △ To be decided after inspection

Installation Type	Installation Conditions & Checkpoints	Lubricator Type										
		Spring	Electrochemical		Electromechanical		Electromechanical - Synchronizing		Electromechanical - Remote Management		Oiler	
		S	E	V	M	EXP/ EXPL	MS& MSP	Mi	BT	PLC	OL500	EO
Before Installation	Select a proper location convenient for operation / replacement	●	●	●	●	●	●	●	●	●	●	●
	Check the thread size (1/4", 3/8") of the grease inlet	●	●	●	●	●	●	●	●	●	●	●
Direct Installation	Heavy dust or particle contamination	●	●	●	●	●	●	●	●	●	●	●
	Low backpressure	●	●	●	●	●	●	●	●	●	●	●
	High vibration (A dampener should be applied for high vibration conditions)	●	●		●	●	●	●	●	●	●	●
	Moisture and water (Check the IP rating on each model)	●	●	●	△	●	△	△	●	●	△	●
	High backpressure				●	●	●	●	●	●	●	
	Confined areas	●	●									●
Remote Installation	High temperature areas (Maximum ambient temperatures of 55°C or under)		△		●	●	●	●	●	●	●	△
	High vibration		●		●	●	●	●	●	●	●	●
	Confined areas				●	●	●	●	●	●	●	
	Long distance from lube point (over 1m)				●	●	●	●	●	●	●	
Multi-Point Installation	Short distance from lube point				●	●	●	●	●	●	●	
	Multiple lube points gathered in limited spaces				●	●	●	●	●	●	●	
Machine Synchronized Application	Lubrication must be applied whenever machine operates						●	●		●		
	Machine operates with extended downtimes						●	●		●		
	HVAC & other machines that may be controlled by temperature changes						●	●		●		
	Machine is a fire risk hazard due to overheating/ over-lubrication						●	●		●		

Check Points

- ☑ Read the user manuals prior to installation and follow instructions carefully for appropriate installation of Pulsarlube products.
- ☑ Please check compatibility between the grease previously used in machinery and the grease contained in the Pulsarlube lubricator and tubing.
- ☑ Please check that fitting connections are tight and that the bearing passageway is clear before installation.
- ☑ Units installed with 45° & 90° elbow adapters in confined areas should be handled and replaced with care.
- ☑ Do not install units in areas where they may fall and cause injuries.
- ☑ Take tube length, tube I.D., and backpressure at the lube point into consideration for remote installation.
- ☑ For optimal results in multi-point installation, please consider the following :
  - ① Minimize operating pressure (backpressure from tubing + backpressure from divider block + backpressure from bearing)
  - ② Use lower NLGI grade grease (NLGI#1 grease is recommended).
  - ③ Keep lube points (maximum up to 8 points) and tubing length to a minimum.
  - ④ Regular check-ups of dispensing conditions are required if using a divider block or oil distributor.

Pulsarlube Dispensing Recommendations

Below are some general guidelines for bearing lubrication requirements. Testing is recommended for specific applications. Please contact your local distributor should you need any assistance in setting proper dispensing rates.

Dispensing Cycle Chart

(0.34ml / Cycle)

ml / Mode / Month	60ml		120ml / 125ml		240ml / 250ml		480ml / 500ml	
	Hours	Cycles / Day	Hours	Cycles / Day	Hours	Cycles / Day	Hours	Cycles / Day
1/2	–	–	1 hours	24.00	30 minutes	48.00	15 minutes	96.00
1	4 hours	6.00	2 hours	12.00	1 hours	24.00	30 minutes	48.00
2	8 hours	3.00	4 hours	6.00	2 hours	12.00	1.0 hours	24.00
3	12 hours	2.00	6 hours	4.00	3 hours	8.00	1.5 hours	16.00
4	16 hours	1.50	8 hours	3.00	4 hours	6.00	2.0 hours	12.00
5	20 hours	1.20	10 hours	2.40	5 hours	4.80	2.5 hours	9.60
6	24 hours	1.00	12 hours	2.00	6 hours	4.00	3.0 hours	8.00
7	28 hours	0.86	14 hours	1.71	7 hours	3.43	3.5 hours	6.86
8	32 hours	0.75	16 hours	1.50	8 hours	3.00	4.0 hours	6.00
9	36 hours	0.67	18 hours	1.33	9 hours	2.67	4.5 hours	5.33
10	40 hours	0.60	20 hours	1.20	10 hours	2.40	5.0 hours	4.80
11	44 hours	0.55	22 hours	1.09	11 hours	2.18	5.5 hours	4.36
12	48 hours	0.50	24 hours	1.00	12 hours	2.00	6.0 hours	4.00
18	–	–	–	–	–	–	9.0 hours	2.66
24	–	–	–	–	–	–	12.0 hours	2.00
Total # Cycle	180 Cycles		360 Cycles		720 Cycles		1440 Cycles	

Dispensing Periods

Product / ml	60ml	120ml / 125ml	240ml / 250ml	480ml / 500ml
M	1~12 Month	1, 2, 3, 6, 12 Month & H (15 days)		1, 2, 4, 6, 12, 18, 24 Month & H (15 days)
MS & MSP				
OL500	-			1, 2, 4, 6, 12, 18, 24 Month & H (15 days)
EXP / EXPL	1~12 Month	1, 2, 3, 6, 9, 12 Month		
Mi	1~12 Month			
BT				
PLC (Month)				
PLC (Interval)	1, 2, 3, 4, 5, 6 Mode			

How To Order

Please follow the steps below when ordering Pulsarlube products. OEM filling is available upon request under special terms and conditions. Please contact your local distributor or Pulsarlube regional sales office for detail information. Certain products may not be available in specific regions.

EX) **M125 / PL2**

Product | Grease Capacity | Grease Type

EX) **MSP 125-VDC / PL2**
PLC 120 N-INT / PL1

Product | Grease Capacity | Additional Features | Grease Type

Step 1 Choose your Pulsarlube product.

Spring	Electro-chemical	Electro-mechanical	Electromechanical - Synchronizing	Electromechanical - Remote Management	Oiler
S	V, E	M, EXP, EXPL	MS, MSP, Mi	BT, PLC	OL500, EO

Step 2 Choose the desired grease capacity.

Product	Capacity
S	100ml
V	125/250ml
E	60/120/240ml
M	60/125/250/500ml
EXP, EXPL	60/120/240/480ml
MS, MSP	60/125/250/500ml
BT	60/120/240ml
Mi	60/125/250ml
PLC	60/120/240/480ml
OL500	500ml
EO	60/120/240ml

Step 3 Select the grease type.

PL1	PL2	PL3	PL4	PL5	PL6	PL7	PL10
Multi Purpose	Heavy Duty	High Speed	H1 Food Grade	High Temperature	Multi Purpose with MoS_2	Low Temperature	Motor Bearing

Additional Features for certain products.

MSP Power Supply	
VAC (AC-DC Adapter)	VDC (DC-DC Converter)

PLC	
1) N : NPN Sensor Type	1) INT : Interval Control Type
2) P : PNP Sensor Type	2) MON : Month Control Type

* When ordering the Pulsarlube PLC, please select your PLC sensor type and the signal control type.

CONTACT SDW

SDW Technical Consulting (PTY) LTD

Automatic lubrication systems
Product enquiries | Technical selection | Quotations

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When requesting a quotation, include the product model, reservoir capacity, lubricant type, quantity and any required accessories or control features.

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