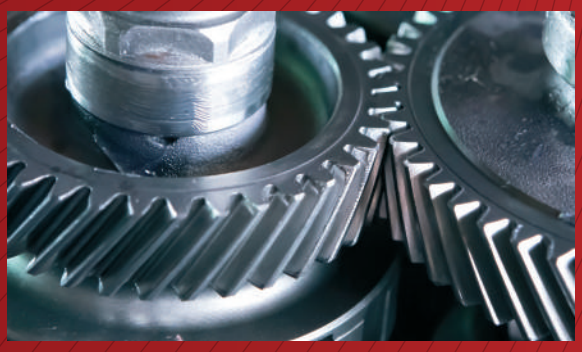
LUBRICATION UK

# MEMOLUB®

## HIGH PERFORMANCE LUBRICATION SYSTEM



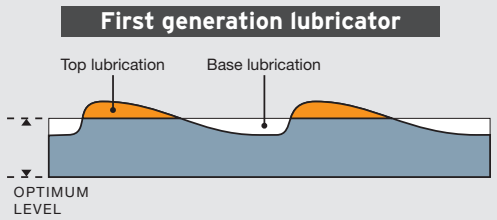
- single or multiple points
- easy to use and reusable
- remote installation
- patented control system
- for all types of industries
- guaranteed return on investment

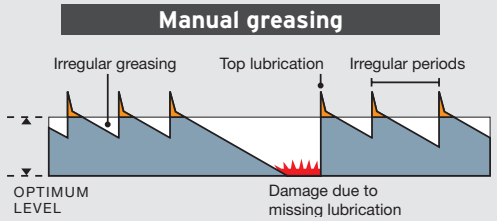
# The standard in industrial lubrication systems

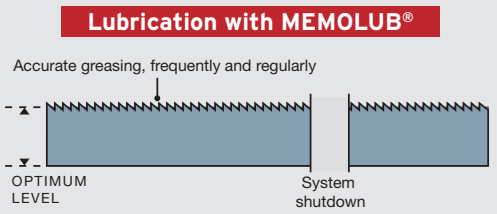
## High-quality lubrication solutions

MEMOLUB® offers a range of class leading single & multi-point lubrication systems, recognised as the benchmark and undisputed reference point for electro-mechanical lubricators. The exceptional features and high quality manufacture of MEMOLUB® offers outstanding protection for lubricated equipment across a wide range of industrial applications.

### EFFECTIVE, EASY TO USE, AND ACCURATE



## The right Lubricant, the right Quantity, at the right Time and on the right Place.

### ECONOMICAL

- Long-term protection of equipment.
- Increased reliability.
- Cartridge change in less than 60 seconds!
- Accurate lubrication.
- Reduced maintenance costs.
- Increased profitability.

### RELIABLE

- Industry proven: 25 years' worldwide distribution.
- Exceptional control features.
- Patented pump design.

### SAFE

- Remote installation for difficult or dangerous access points.
- Reduced downtime for lubrication.
- Easy to use.
- Instant verification offered by transparent housing and check function.

### ECOLOGICAL

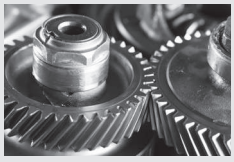
- Reusable.
- Wide range of low cost replacement cartridges and battery power packs.
- Unlimited refills.
- Reduced environmental impact.
- Reduced lubricant consumption and improved. protection of production equipment.

**Examples of applications**

BEARINGS

CHAINS

LINEAR GUIDANCE

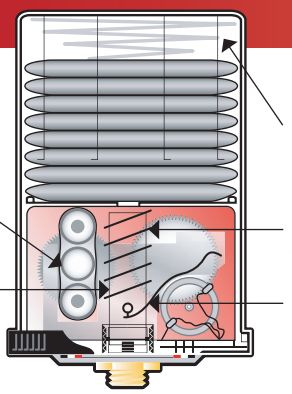

GEARS

BALL SCREW

# Dosing pump
# The Memo

## A powerful and efficient pump

- Dosing pump with adjustable output.
- Lubricant ejection pressure from 10 to 25 bar.
- High-performance pump able to pump lubricants at extreme temperatures and with high viscosity.




**10 bar & 25 bar**

## The Memo: Smart Setting

- The patented Memo system adjusts the lubricant discharge frequency.
- The discharge frequency is set for each lubrication point once for all, but it can be adapted on demand at any time.

- Only one screwable part specifies the lubrication program

**Memo 10 bar**

- Programming the MEMO with 3 coloured rings: black, white and red

**Memo 25 bar**

## The technology: the accumulator effect

MEMOLUB® not only protects the moving parts of your machine, it protects your lubricant.

Excessive pressure applied to the lubricating grease causes oil separation. Back pressure generated by a lubrication system depends on a number of factors. The tubing diameter, the type of lubricant and the ambient temperature, are all major contributors but the most significant element is the speed/pressure at which the lubricant is expelled.

MEMOLUB®'s unique method of operation eliminates this problem. Thanks to its patented design Memolub allows the lubricant to travel to the lubricating point without the need for excessive pressure.

The lubricant remains in its premium condition offering substantially improved lubrication of your valuable asset.

MEMOLUB®

# Memolub® 10 bar

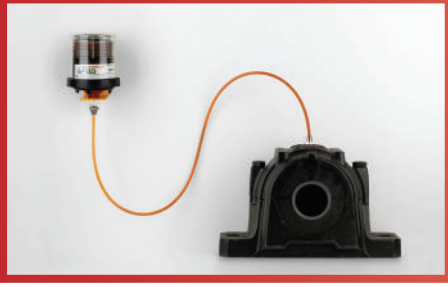
## Single-point, reusable and remote lubrication system

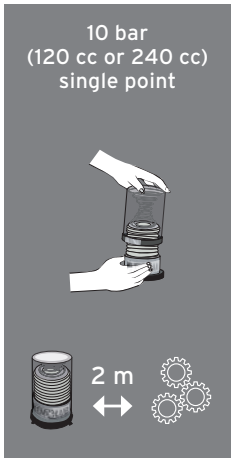
Manufactured in Switzerland
2 YEARS WARRANTY
Assembled in Belgium

EM 2 SETTINGS

ECO 2 SETTINGS

ONE 4 SETTINGS






### EM

120 cc model. Specifically for controlled micro-lubrication. Specially suited for applications requiring frequently little quantity but frequent greasing: small bearings, linear guidance, chains, electric motors, etc.

### ECO

240 cc model. Lubricants for larger components that requires more.

### ONE

240 cc model. Ideally suited for difficult environments where the lubricant must also play a protective role. Can be used for all types of application.

All our 10 bar models are battery operated.

## Technical specifications

| | EM | ECO | ONE |
|---|---|---|---|
| | | | |
| Cartridge volume | 120 cc | 240 cc | 240 cc |
| Settings | 12 or 24 months | 6 or 12 months | 1, 3, 6 or 12 months |
| Maximum stroke pressure | 10 bar / 140 psi | | |
| Batteries | 4.5 V DC Alkaline battery | | |
| Remote installation | Up to 2 metres – Ø 8 mm tubing | | |
| Lubricants | Oil and Grease (up to NLGI #2 with an oil base up to **1500 cSt**) | | |
| Operating temperature | -15°C tot 50°C* | | |
| Connections | 1/4 BSP | | |

* Batteries + lubricant adapted for low temperatures

## MEMO adjustments

| | EM | | ECO/ONE | | ONE | |
|---|---|---|---|---|---|---|
| | ∅ | ○ | ∅ | ○ | ○ | ○ |
| Adjustments | 2 years | 1 year | 1 year | 6 months | 3 months | 1 month |
| Average daily output | 0,15 cc/day | 0,3 cc/day | 0,6 cc/day | 1,2 cc/day | 2,4 cc/day | 7,2 cc/day |

# Memolub® 25 bar

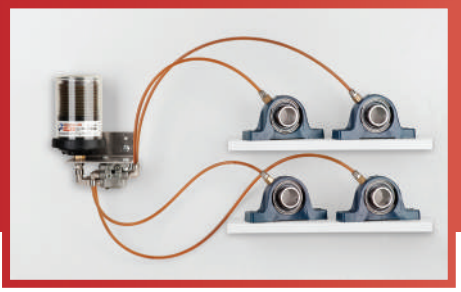
## Single or multiple points, reusable and remote lubrication system

Manufactured in Switzerland — 2 YEARS WARRANTY — Assembled in Belgium

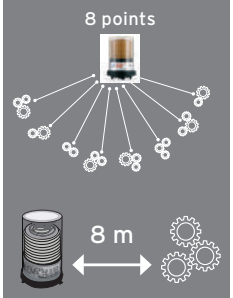
**HPS** 4,5 V BATTERIES

**HPS EPS** 24 V EXTERNAL POWER SUPPLY

**HPS PLCD** 24 V POWER SUPPLY PLC DRIVEN



25 bar (120 cc, 240 cc or 480 cc) single or multiple point




### HPS

Universal model with battery power supply, allowing it to be used in all types of environments and applications. This model provides regular, accurate and reliable lubrication.

### EPS

Ideal for lubrication on installations functionary on a irregular basis. The frequencies of the MEMO are stored.

### PLCd

Unlimited settings with possible machinery feedback. The perfect solution for OEMs.

## Technical specifications

| | HPS | EPS 24V | PLCd |
|---|---|---|---|
| | | | |
| Cartridge volume | 120 cc, 240 cc or 480 cc | | |
| Output settings | 7 main settings and several additional settings | | Unlimited settings by PLC |
| Maximum stroke pressure | 25 bar / 350 psi | | |
| Batteries / Power supply | Alkaline batt. 4,5 V DC (AA-LR6) | External 24 V DC | External 24 V DC |
| Remote installation | Up to 8 metres / single point – Ø 8 mm tubing | | |
| Lubricants | Oil and Grease (up to NLGI #2 with an oil base up to **1500 cSt**) | | |
| Operating temperature | -15°C to 50°C* | | |
| Connections | 1/4 BSP | | |
| Control detector | Progressive distributor for 4, 6 and 8 outputs | | |

* Batteries + lubricant adapted for low temperatures

## MEMO adjustments

| | ⊘ ○ ∅ | ⊘ ∅ | ⊘ ○ | ⊘ | ○ ∅ | ∅ | ○ |
|---|---|---|---|---|---|---|---|
| Daily ejection | 24 | 12 | 4 | 2 | 1.5 | 1 | 0.5 |
| Daily output in cc | 15.1 | 7.6 | 2.5 | 1.3 | 1.0 | 0.6 | 0.3 |
| Months to empty 120 cc | 0.25 | 0.5 | 1.5 | 3 | 4 | 6 | 12 |
| Months to empty 240 cc | 0.5 | 1 | 3 | 6 | 8 | 12 | 24* |
| Months to empty 480 cc | 1 | 2 | 6 | 12 | 16 | 24* | - |

* Only with MEMOLUB® EPS

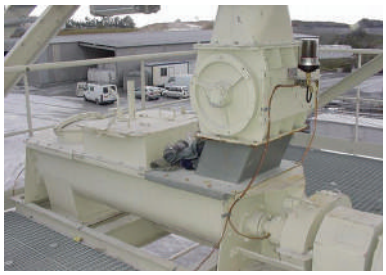
# Typical applications

- Critical components
- Difficult or dangerous access points
- Accurate greasing
- High greasing frequency
- Lubrication without machine downtime

MEMOLUB® systems have an excellent reputation and are distributed in more than sixty countries around the world.

**Food industry:** lubrication of press ball bearings.

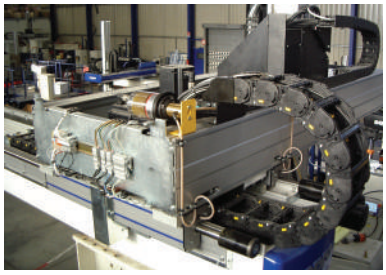
**Automotive industry:** lubrication of aerial conveyor belt rollers and rails.



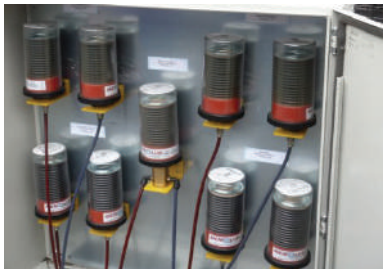
**Mineral industry:** lime factory: lubrication of 4 screw drive bearings.

**Textile industry:** Picanol weaving loom bearings.

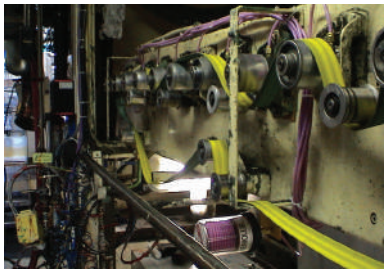
**Mineral industry:** lubrication of conveyor belt bearings.



**Robotics industry:** lubrication of ball guides.



**Food waste processing industry:** cabinet of Memolubs for the lubrication of bearings and casing of a rotation fermenter.



**Metal industry:** lubrication of return roller bearings on a production machine for aluminium sheets.

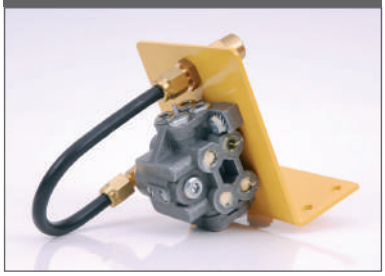
**Food industry:** lubrication of Solyvent Ventec ventilator bearings.

# Accessories

## SPLITTER MEMO HPS

HPS Kit for 2 points

## DISTRIBUTOR KIT HPS



HPS Kit for 3 to 8 points

## EXTENSION KIT

Single point fixture kit

## BRUSHES AND KIT

Brushes to lubricate chains

## CRANE RAIL

Rail lubrication

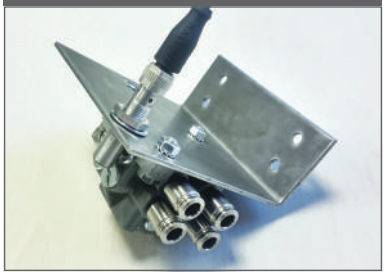
## SPRAY NOZZLE

Liquid grease sprays

## LUBRICATION PINIONS

Lubrication pinions

## PROXIMITY SWITCH



Lubrication switch

## PROTECTION COVER

In difficult environments, water, salt

## MEMO KIT

Frequency adjustment kit

## SPARE PARTS

See our online catalogue

## ADAPTATORS

Adaptors

MEMOLUB®

## Electrical characteristics

| | EM | ECO | ONE | HPS | EPS 24 V | PLCd |
|---|---|---|---|---|---|---|
| Power supply | Int. | Int. | Int. | Int. | Ext. | Ext. |
| Output voltage | 4.5 V DC | 4.5 V DC | 4.5 V DC | 4.5 V DC | 24 V DC | 24 V DC |
| Output current | - | - | - | - | < 0.5 A | < 0.5 A |
| Short Circuit Protection | ok | ok | ok | ok | ok | ok |
| Stroke duration | 8 sec | 8 sec | 8 sec | 8 sec | 4 sec | 4 sec |
| Min. time between strokes | 2 days | 12 hours | 2 hours | 1 hour | 1 hour | 10 minutes |
| Max. cable length | NA | NA | NA | NA | 10 m | 10 m |
| Power cable | NA | NA | NA | NA | 2 x 0.5 mm ² | 2 x 0.5 mm ² |

## Memolub greases

| Name | Class NLGI | Base oil | Soap | Temperature range (°C) | Viscosity at 40 °C | Speed (high, medium, low) | Bearings | Slide bearing | Open gear, rack and pinion | Ball screw | Linear guidance | Shaft sealing |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MEMOMULTI 2 (standard)<br>Multipurpose grease<br>Excellent resistance to water | 2 | Mineral | Calcium sulfonates | -20°C to 150°C | 460 | Low to High | ✓ | ✓ | - | ✓ | ✓ | ✓ |
| MEMOFOOD<br>H1 certified<br>Multipurpose grease<br>Excellent resistance to water | 2 | White | Aluminium complex | -20°C to 120°C peak at 140°C | 140 | Low to High | ✓ | ✓ | - | ✓ | ✓ | ✓ |

## Remote installation or with distributor block 2 to 8 outlets

Lengths of tubing with Multi2 grease grade N.L.G.I. 2, tubing Ø int. 6 mm et fi ttings M8 minimum:

| T° | Base oil viscosity | Direct | Remote | With Splitter MEMO | With progressive bloc* |
|---|---|---|---|---|---|
| -10°C | 48.000 | ok | 6 m | 2 m | 2 m |
| 0°C | 15.000 | ok | 6 m | 2 m | 4 m |
| 20°C | 4.000 | ok | 8 m | 4 m | 6 m |
| 40°C | 460 | ok | 8 m | 4 m | 8 m |

* by manufacturer recommended

Ex CE IP66

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