

## HIGH PERFORMANCE LUBRICATION SYSTEM



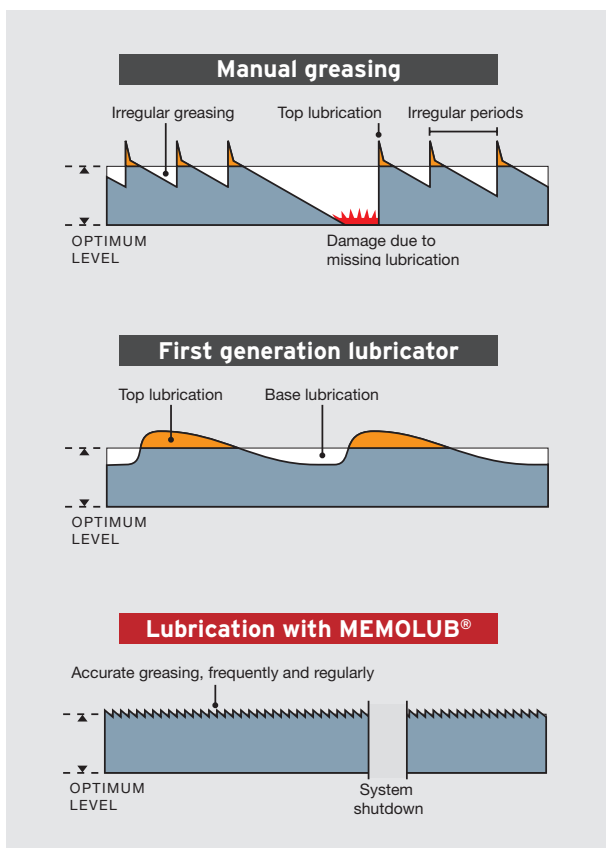
- Single or multiple points
- Easy to use and reusable
- Remote installation
- Patented control system
- For all types of industries
- Guaranteed return on investment

# 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 Frequency and on the right Place.

### ECONOMICAL

- Long-term protection of equipment.
- Increased mechanical reliability.
- Cartridge change in less than 60 seconds!
- Accurate lubrication.
- Reduced maintenance costs.
- Increased profitability.
- The right lubricant volume per point.

### RELIABLE

- Industry proven: 30 years' worldwide distribution.
- Exceptional setting 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 affordable replacement cartridges and battery power packs.
- Unlimited refills.
- Reduced environmental impact.
- Reduced lubricant consumption and improved protection of production equipment.

## Examples of applications



BEARINGS



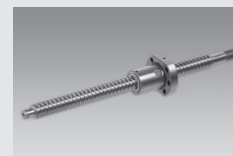
CHAINS



LINEAR GUIDANCE



GEARS



BALL SCREW

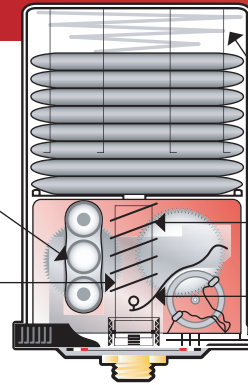
# The dosing pump and the Memo

## ➤ A powerful and efficient pump

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

**4.5 V Batteries**  
(Optional external 24 V power supply)

**Dosing piston**  
Opens the check valve.  
Standard quantity  
0.6 cm<sup>3</sup>



**Compression spring**

**Ejection spring: 10 or 25 bar**

**Lever**

**10 bar & 25 bar**

## ➤ The Memo: Smart Setting

- The patented Memo system adjusts the lubricant output frequency.
- The output frequency can be adapted on demand.
- The settings are independent from the body and the cartridge.



- Only one screwable part specifies the lubrication program

**Memo 10 bar**



- Programming the MEMO with the combination of 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 ratio 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® 10 bar

## Single-point, reusable and remote lubrication system

**EM**

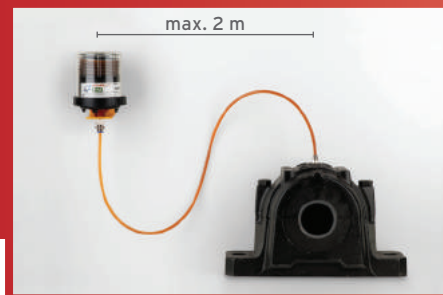
2 SETTINGS

**ECO**

2 SETTINGS

**ONE**

4 SETTINGS



10 bar  
(120 cm<sup>3</sup> or 240 cm<sup>3</sup>)  
single point

➤ **EM**  
120 cm<sup>3</sup> model. Specifically for controlled micro-lubrication. Specially suited for applications requiring frequent but limited lubricant volume: small bearings, linear guidance, chains, **electric motors**, etc.

➤ **ECO**  
240 cm<sup>3</sup> model. Lubricants for larger components that requires more.

➤ **ONE**  
240 cm<sup>3</sup> model. Ideally suited for difficult environments where the lubricant must also play an even more 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 cm <sup>3</sup>	240 cm <sup>3</sup>	240 cm <sup>3</sup>
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 external tubing		
Lubricants	Oil and Grease (up to NLGI #2 with an oil base between 100 and 460 cSt)*		
Operating temperature	-15°C tot 50°C**		
Connections	1/4 BSP		

\* For any other viscosity level please contact your distributor. \*\* 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 cm <sup>3</sup> /day	0.3 cm <sup>3</sup> /day	0.6 cm <sup>3</sup> /day	1.2 cm <sup>3</sup> /day	2.4 cm <sup>3</sup> /day	7.2 cm <sup>3</sup> /day



# MEMOLUB® 25 bar

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

**HPS**

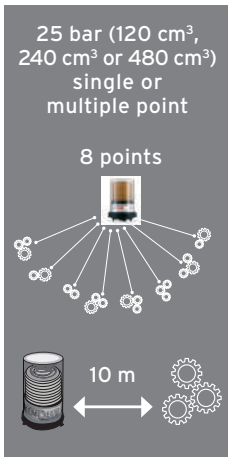
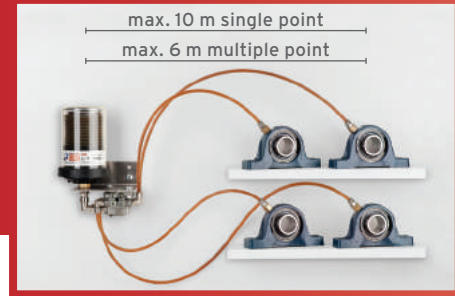
4.5 V BATTERIES

**HPS EPS**

24 V EXTERNAL POWER SUPPLY

**HPS PLCD**

24 V POWER SUPPLY PLC DRIVEN



### ➤ 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 functioning on an irregular basis. The frequencies of the MEMO are stored but can be adapted at any time.

### ➤ PLCd

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

## Technical specifications

	HPS	EPS 24V	PLCd
Cartridge volume	120 cm <sup>3</sup> , 240 cm <sup>3</sup> or 480 cm <sup>3</sup>		
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 10 metres / single point – Ø 8 mm external tubing		
Lubricants	Oil and Grease (up to NLGI #2 with an oil base between 100 and 460 cSt)*		
Operating temperature	-15°C to 50°C**		
Connections	1/4 BSP		
Distributor units	Progressive distributor from 1 to 8 outputs		

\* For any other viscosity level please contact your distributor. \*\* Batteries + lubricant adapted for low temperatures.

## MEMO adjustments

Daily ejection	24	12	4	2	1.5	1	0.5
Daily output in cm <sup>3</sup>	14.4	7.2	2.4	1.2	0.9	0.6	0.3
Months to empty 120 cm <sup>3</sup>	0.25	0.5	1.5	3	4	6	12
Months to empty 240 cm <sup>3</sup>	0.5	1	3	6	8	12	24*
Months to empty 480 cm <sup>3</sup>	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.



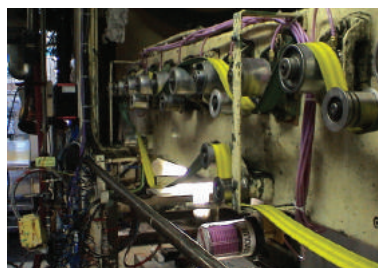
**Mineral industry:** lubrication of conveyor belt bearings.



**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.

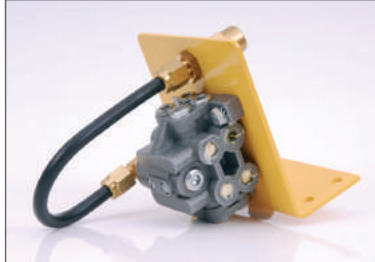
# Accessories

## 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



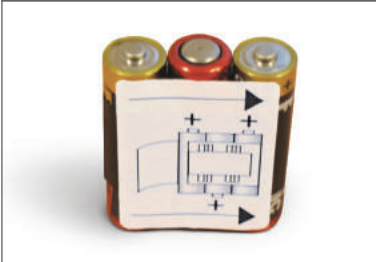
Rail lubrication

## SPRAY NOZZLE



Liquid grease sprays

## BATTERIES



Batteries for EM, ECO, ONE, HPS

## PROXIMITY SWITCH



Lubrication switch

## PROTECTION COVER



In difficult environments, water, salt

## MEMO KIT



Frequency adjustment kit

## SPARE PARTS



See our online catalogue

## ADAPTATORS



Adaptors



The MEMOLUB® cartridges

### 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 <sup>2</sup>	2 x 0.5 mm <sup>2</sup>

### 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) Multipurpose grease Excellent resistance to water	2	Mineral	Calcium sulfonates	-20°C to 150°C	460	Low to High	✓	✓	-	✓	✓	✓
MEMOFOOD H1 certified Multipurpose grease 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 fittings M8 minimum:

Type of installation	Distance*
Single-point	10 meters
Splitter (2 outlets)**	6 meters
Distributor block (4 - 8 outlets)**	6 meters

\* Laboratory test under the following conditions:  
 - With multifunctional grease grade NLGI2  
 - With pipes of dimensions 6/8 mm in Rilsan  
 - At an ambient temperature between 10°C and 20°C

\*\* Splitter and Distributor block: Models distributed by MEMOLUB®  
 NB : For any installation that differs significantly from the above conditions, please refer to your MEMOLUB® distributor.

### YOUR DEALER

