

# MEMOLUB PLCD (PLC)

## AUTOMATIC LUBRICATORS & LUBRICATION



## Introduction



### Refillable autonomous and programmable lubricant dispenser for one or multiple lubrication points

Lubrication is an important part of maintenance. The lubricant dispenser, the lubrication point, the quantity, and the frequency are the primary elements of effective lubrication, and therefore also of optimal productivity. In modern factories, the lubrication points are greased by means of centralized systems. These are very efficient when they are well maintained, regulated and controlled. The remainder is mainly lubricated manually or with small independent lubricators at low pressure.

MEMOLUB PLCD (PLC) is a powerful (25 bar) and precise electro-mechanical lubricant dispenser with the purpose of centralizing and automating the lubrication. It functions independently, contains an oil or grease bellow, and is driven by the PLC control system. A progressive distributor can be used to lubricate several points simultaneously. It can also (if feasible) be mounted directly at the lubrication point, or convey the lubricant through lines to the lubrication point.

## Specifications

Dimensions and capacities	Standard	⊙ 115 x 101 mm	120 cm <sup>3</sup> (ml)
	Mega	⊙ 147 x 101 mm	240 cm <sup>3</sup> (ml)
	Giga	⊙ 228 x 101 mm	480 cm <sup>3</sup> (ml)
Electronic control	Quartz clock, microprocessor		
Stop, Start	Immediately		
Lubricant types	Oil & grease (up to NLGI grade 2)		
Supply	24 V DC		
Temperature range	From -15 °C to +50 °C		
Conveying pressure	25 bar (piston pump)		
Lubrication points	1 to max. 8 outputs (with progressive distributor)		
Remote installation monopoint	Line length up to 10 m		
Remote installation multipoint	Line length 4 m per lubrication point		
Screwed connector	¼ inch R		
Protection class	IP66		
Conveying volume max.	0.635 cm <sup>3</sup> (ml)		
Conveying volume min.	0.13 cm <sup>3</sup> (ml) with dosage washers		

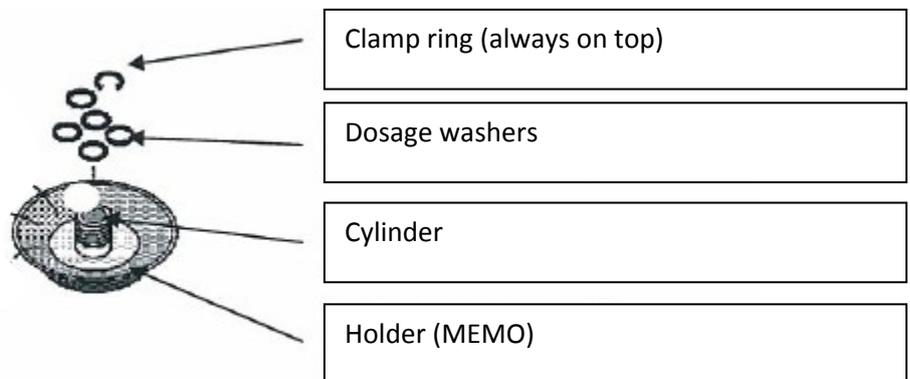


### Finer programming setting by means of black dosage washers

If a more precise feed rate setting should be necessary, this can be accomplished by inserting up to five small black dosage washers and a steel clamp ring into the cylinder of the MEMO.

### Conveying volume with additionally inserted dosage washers

Number of dosage washers	Feed rate per stroke in cm <sup>3</sup>
1	0.53
2	0.43
3	0.33
4	0.23
5	0.13



### Warranty

A warranty is provided for the mechanical and electronic components for 12 months following the invoice date, under the condition that the controller's casing has not been opened and the transparent flange is not damaged. The warranty is limited to the replacement of the lubricator. The inspection of the proper function of the device lies in the responsibility of the user.

Further information concerning the MEMOLUB can be found at the Internet site [www.memolub.com](http://www.memolub.com).

### Installation regulations for the lubricator 24 V DC-PLC

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1. Program the lubrication amount by inserting the dosage washers.



2. Mount the MEMO directly on the lubrication point or the progressive distributor.



3. Screw the MEMOLUB® onto the MEMO.



4. Connect the MEMOLUB® 24 V DC-PLCD (PLC) to a PLC. The PLC regulates the frequency of the lubrication cycles.  
(PLC is not included)

### General instructions

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#### Maintenance

Operation with an empty cartridge should be avoided. To make the pump suck again, use a grease gun without grease nipple. One or two strokes are enough.

#### Stop / Start

Five seconds after being screwed into the lubrication point, the lubricator starts the first lubrication cycle. The MEMOLUB can be switched off and on (machine standstill, weekends, vacation closedown, etc.) at any time. The MEMOLUB is simply screwed out and back in by three rotations for this. After being screwed in, the MEMOLUB runs a self-test and is immediately operational.

Caution! In progressive distributors and/or long lines filled full with lubricant, decompression can occur in these systems. The MEMO is then filled with lubricant. When screwing the MEMOLUB onto the MEMO, pressures of up to more than 100 bar can occur, and this may damage the MEMOLUB. Use a "SAFETY-MEMO" for progressive distributors and/or long lines.

#### Line lengths for central lubrication

The lengths of the lines depend on the type of grease to be conveyed and the ambient temperature. With multi-purpose grease and temperatures of over 100 °C, the following line lengths are used. At 4 mm inner diameter: max. 6 m for single lubrication point, max. 8 x 2.5 m for progressive distributors.

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Replacing the lubricant cartridge

**Hazard and safety instructions**

- Attention! The red casing bottom part contains a pressurized spring. Do not open!
- Leq < 70 dB
- Employ MEMOLUBs only for the lubrication of machines.
- Use only with original cartridges.



1. Unscrew MEMOLUB® (1) from MEMO (2). MEMO remains screwed to the point of application.



2. To open, place the lubricator on a flat surface. Press the hood downward and turn the black ring counterclockwise.



3. Remove the label from the replacement cartridge. Enter the start date and the exchange date.



4. Press the air carefully out of the cartridge.



5. Set the cartridge on the casing.

**Only for grease cartridges**



4. Carefully remove the cover of the cartridge. Place the casing upside-down on the cartridge.



5. Turn the casing over together with the cartridge.

**Only for oil cartridges**



6. Put the hood over the assembled casing and the cartridge.



7. Press the hood downward and turn the black ring clockwise.



8. Screw the MEMOLUB® onto the MEMO.



Note: If necessary, prepare the MEMOLUB® with a manual grease gun (only for grease cartridges).