

MEMOLUB[®] HPS

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 HPS 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 battery operated. A progressive distributor can be used to lubricate several points simultaneously. It can also (if feasible) be mounted directly at the lubrication point, or press the lubricant through lines onto the lubrication point.

Specifications

Dimensions and capacities	Standard	⊙ 115 x 101 mm	120 cm ³ (ml)
	Mega	⊙ 147 x 101 mm	240 cm ³ (ml)
	Giga	⊙ 228 x 101 mm	480 cm ³ (ml)
Electronic control	Quartz clock, microprocessor		
Stop, Start	Immediately		
Lubricant types	Oil & grease (up to NLGI grade 2)		
Supply	HPS= 3 batteries 4.5 V alkaline		
* Temperature range	See also reference below		
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 ³ (ml)		
Conveying volume min.	0.13 cm ³ (ml) with dosage washers		

* In case of a longer operational duration at temperatures below -5°C , it is important to check the charge of the batteries regularly by pressing the control function.

Program setting



MEMO standard program setting by means of colored plastic rings

The electronic lubricant regulation is done by means of 3 colored (red, white, black) plastic rings, inserted in the black plastic support, that actuate the electronic contacts of the frequency selector by the depressed pins. If rings are inserted individually, the temporal feed rate increases from outside to inside. If all three rings are inserted, the maximum feed rate is achieved.

Depending on the selected ring combination, the desired temporal conveying volume can be set, or the operational duration of the lubricant supply specified in the bellows.

Dispensing duration as a function of the ring combination (red, white, black)

Inserted ring	Frequency (hours)	Operating time 120 cm ³ (ml)	Operating time 240 cm ³ (ml)	Operating time 480 cm ³ (ml)
Black	48 h	12 months	2 years*	3 years*
White	24 h	6 months	12 months	18 months
Red	12 h	3 months	6 months	9 months
Black + white	16 h	4 months	8 months	12 months
Black + red	6 h	-	3 months	6 months
White + red	2 h	-	1 month	2 months
Black + white + red	1 h	-	15 days	1 month

* External power supply required (5 volts)



Finer programming setting by means of black dosage washers

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

Dispensing duration with additionally inserted dosage washers

Inserted ring	Dosage washers	Frequency (hours)	Operating time/Standard 120 cm ³ (ml)	Operating time/Mega 240 cm ³ (ml)
Black	5**	48 h	18 months	3 years*
Black	0	48 h	12 months	2 years*
White	5**	24 h	9 months	18 months
White	0	24 h	6 months	12 months
Red	5**	12 h	-	9 months
Black + white	0	16 h	4 months	8 months
Red	0	12 h	3 months	6 months
Black + red	0	6 h	-	3 months
White + red	0	2 h	-	1 month
Black + white + red	0	1 h	-	15 days

* External power required

** Dosage washers incl. clamp ring

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.

Installation regulations for the lubricator battery



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



2. Set the frequency with plastic rings.

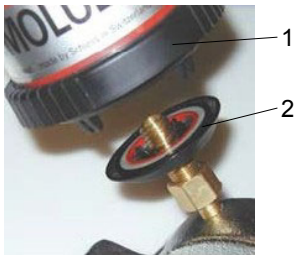


3. Mount the MEMO directly on the lubrication point or the progressive distributor.



4. Screw the MEMOLUB® HPS onto the MEMO.

Replacing the battery and lubricant cartridge



1. Unscrew the MEMOLUB® HPS (1) from the 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 cartridge and batteries and dispose of in an environmentally friendly manner. Insert new battery set according to instructions on the red casing.



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



5. Press the air carefully out of the cartridge.



6. Set the cartridge on the red casing.

Only for grease cartridges



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



6. Turn the casing over together with the cartridge.

Only for oil cartridges



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



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



9. Simulate a function test by hand. Press the sensor pin on the bottom side of the casing for about 5 seconds.



10. Screw the MEMOLUB® HPS onto the MEMO.



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

Hazard and safety instructions

- Attention! The red casing bottom part contains a pressurized spring. Do not open!
- Attention! Grease can escape during the manual function check. Point the MEMOLUB downwards and away from persons.
- Leq < 70 dB
- Employ MEMOLUBs only for the lubrication of machines.
- Use only with original cartridges and original batteries. Third party batteries can destroy the electronics.