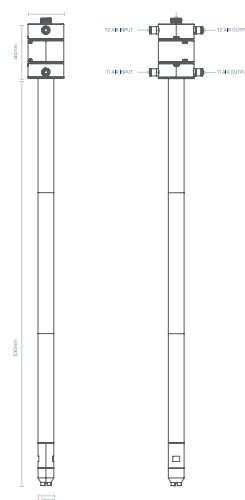
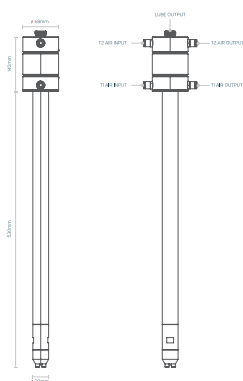




# DS MEMOLUB® DS KNOWLEDGE BASE

## DIMENSIONS



## INSIDE THE BOX



Memolub DS  
Control Unit



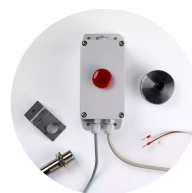
Memolub DS  
Pump



Compression  
plate



Closure lid

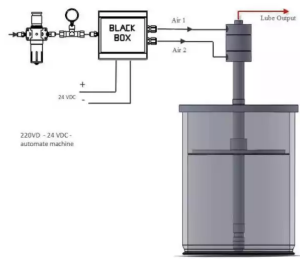


Remote control

MEMOLUB DS PUMP

This step involves correctly placing the prepared pump assembly in the container so that it only has to be connected. You must use the shovel plate, the pump and the lid whose sizes are adapted to the chosen container. For more information on the sizes available, consult your MEMOLUB® distributor.

Before placing the pump in the container, you must check the following points otherwise the shovel plate may not work properly.

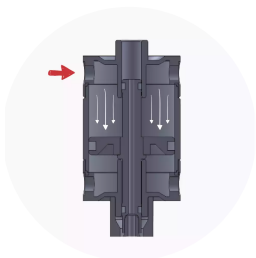


TECHNICAL DATA

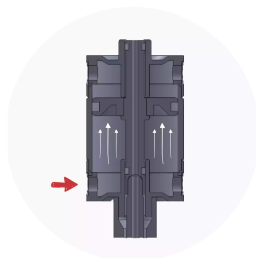
	MEMOLUB DS PUMP 18kg	MEMOLUB DS PUMP 50kg
Pump ratio	20/1	
Input air pressure	6 bar	
T1/T2 thread	F 1/8"G BSP	
T1 Tubing	ø 6-8mm	
T2 Tubing	ø 4-6mm	
Lube output thread	M 1/2"G	
Diameter rod	ø 30mm	
Expulsion per stroke	4,5cm³	
Length rod	530mm	780kg
Packaging / container	18-30kg	50-60kg
Weight dosing pump	5,10kg	6,50kg

The DS pump's work cycle is created by the alternating movement of the piston.

The piston's movements are caused by the air throughput, controlled by the timer in the black box. A work cycle is composed of two work phases (T1 and T2):



T1 (piston descending phase): internal transfer of the lubricant towards the expulsion chamber.



T2 (piston ascending phase): simultaneous aspiration and expulsion of the lubricant.

## MEMOLUB DS CONTROL UNIT

The MEMOLUB® DS CONTROL UNIT Unit is a simple electronic system for managing the expulsion of the lubricant. A MEMOLUB® DS CONTROL UNIT can manage several pumps. Note that it is possible to connect a visual feedback via a distributor system with an optional on-off switch. The control unit comes in 2 versions: 24VDC or 220 VAC 50Hz.

The electronic box is composed of a circuit card and a solenoid. The solenoid powers the pump's "IN1" and "IN2" inputs alternately via two pipes corresponding to the two cycles of the pump.



## TECHNICAL SPECIFICATIONS & SETTINGS

The output is settable from 2.25cc/3.375cc / 4.5cc and can develop a power of 120 bars with an air pressure of 6 bars thanks to a ratio of the latter of 1:20.

	MEMOLUB DS
Dimensions	400 x 200 x 132mm
Power supply	24DC / 240 VAC / 0,3A min - 0.55A max
Protection	6A* circuit breaker
Power Cord	240VAC - 3Gl.5 - Type H07RNF
Air input	6 bars - tube 4x6mm
T1	Time fixed at 1 min - ø6x8mm tube
T2	Ranging from 10min to 9999 min - ø4x6mm tube
Timer precision	0.2%
Working temperature	-20°C to +55°C
Weight	1kg

## INSTALLATION GUIDELINES

### Electronic Box



### Assembly of the MEMOLUB® DS PUMP (intermediate)

- 1 screw a quick connection Ø6mm onto air input 1 (AIR IN T1) using a an Allen key
- 2 screw a quick connection Ø6mm onto air input 2 (AIR IN T2) using a an Allen key
- 3 screw a quick connection Ø8mm onto air output 1 (AIR OUT T1) using a an Allen key
- 4 screw a quick connection Ø6mm onto air output 2 (AIR OUT T2) using a an Allen key

### Assembly of the MEMOLUB® DS PUMP (stand-alone/last pump in series)

- 1 screw a quick connection Ø6mm onto air input 1 (AIR IN T1) using a an Allen key
- 2 screw a quick connection Ø6mm onto air input 2 (AIR IN T2) using a an Allen key
- 3 screw an M 1/8"G stopper onto air output 1 (AIR OUT T1) using a an Allen key
- 4 screw an M 1/8"G stopper onto air output 2 (AIR OUT T2) using a an Allen key

### Assembly of the MEMOLUB® DS PUMP GREASING KIT

- 1 screw the elbow adapter M 1/2"G to the pump's lubricant output
- 2 on the top output (2), put the conical M 1/4"G / straight M 1/4"G adapter (please leave the straight M 1/4"G of this adapter free for the connection with the high-pressure hose).
- 3 valve in position, greasing mode (horizontally).

1 Check the components have not been damaged due to transport or handling.

2 Check the quality of the plastic bag containing the lubricant. This must not have any air bulges at the top of the container.

## FAQ

### Can I test the smooth functioning of my MEMOLUB® DS?

Yes, the DS pump can be tested at any time by using its build in "check function". This process consists of operating a pump cycle manually, i.e. the two cycles (T1/T2) of the pump by shunting electronic timer.

If you don't have the manual "check function" remote control, this test can be done by turning the electronic box's power off and on.

*Flip the red button of the manual "Check Function" command alternately with a time lapse of 10sec between each test.*

*After every use of the "check function", please remove the remote control so the electronic box can switch to its operating mode.*

### How do I change the the lubricant container?

The container is empty when there is no more pressure variation on the pump's output pressure gauge. (NB, this could also be a priming problem).

A level gauge (see optional items) also provides visual information on the remaining lubricant volume. If the container is empty, follow these steps:

- Cut the power to the electronic box
- Remove the pump from its container, put its nozzle down in a protected area so that no dust and other dirt can get into it and damage the pump
- Unscrew the container's lid and put it down on a clean surface
- Prepare the new container: open it and carry out the various stages set out in Point 2.2.3 of this manual.
- Connect the "check function"
- Turn the electronic box's power back on
- Re-prime the pump if needed: flip the valve of the greasing kit to "bleed" mode (see Section 2.2.2) and Operate the "check function" (see 2.4.3). The operation must be repeated to feed the grease through to the bleed outlet.
- Stop and disconnect the "check function"
- Flip the valve of the greasing kit to "greasing" mode

### What to do when there is a priming problem

If the pressure gauge at the pump output indicates zero pressure the pump can be un-primed. In this case, follow these steps:

- Check whether there is any lubricant left in the container when you take the pump off
- Re-prime the follower plate and get the air out as explained in Section 2.2.3.1.
- Slide the pump through its lid and fix it to the container as explained in Section 2.2.3.2.
- Flip the valve of the greasing kit to "bleed" mode (see section 2.2.2)
- Connect and do the "check function" (see 2.4.3) The operation must be repeated to take the grease through to the bleed outlet
- Stop and disconnect the "check function"
- Flip the valve of the greasing kit to "greasing" mode

If the pump does not re-prime after the above steps, contact your MEMOLUB® dealer.

### **What to do when there is a leak in the air network?**

- Cut the air supply line, i.e. set the FRL to zero bar (see air setting 3.1)
  - Disconnect the worn or defective tubes
  - Replace and reconnect the pipes correctly (see 2.4)
  - Return the FRL's air pressure to 6 bar
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