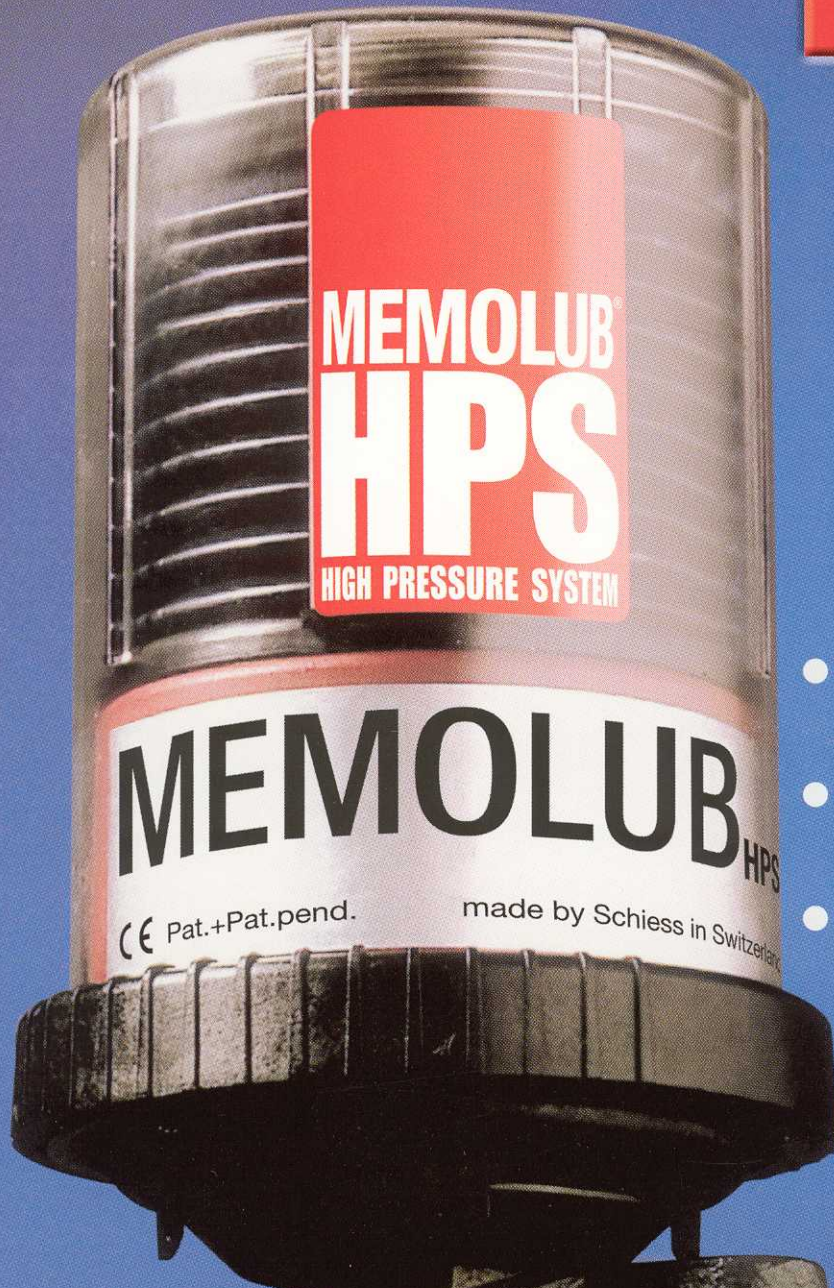


MEMOLUB®

HPS



- Precise
- Reliable
- Economical

The lubrication Machine

MEMOLUB HPS

Precise Reliable Economical

The **MEMOLUB High Pressure System** is a versatile, technically advanced self-contained automatic lubricator. Its unique patented design offers capabilities not found in single-point automatic lubricators currently in use.

MEMOLUB HPS eliminates the major causes of equipment breakdown attributed to poor lubrication practices like:

- use of wrong lubricant
- contaminated lubricant
- over or under lubrication
- failure to lubricate at regular interval
- and the worst, forgetting to lubricate

MEMOLUB HPS enables the personnel previously doing the manual lubrication to perform other more important and urgent tasks without sacrificing the equally essential task of lubrication.

The MEMO System

The memo is a unique system for adjusting the daily lube output of the **MEMOLUB HPS**. The memo is programmed the first time and is then permanently fitted on the lube point.

Maintenance personnel need not remember at each lubrication task what setting is necessary. Lube organization is simplified. Programming the MEMO is simple and takes little time. The black (B), white (W) and red (R) timing rings in the memo can be combined in seven different ways (see table below) to change the frequency of lube ejection. Fine tuning washers (up to 8) can be inserted inside the MEMO brass fitting to change the volume of lubricant per ejection.



MEMOLUB HPS Basic Settings

Timing Rings Combination	Strokes Per day	Daily Output in cc	Months to Empty 120cc	Months to Empty 240cc	Months to Empty 480cc
R + B + W	24	15.1	0.25	0.5	1
R + W	12	7.6	0.5	1	2
R + B	4	2.5	1.5	3	6
R	2	1.3	3	6	12
B + W	1.5	1.0	4	8	16
W	1	0.6	6	12	2 years
B	0.5	0.3	1 year	2 years	-

Note: R = Red ring, B = Black ring, W = White ring



Available in 3 Sizes

MEMOLUB HPS exists in three sizes: Standard (120cc), Mega (240cc) and Giga (480cc)



The 350 Psi Ejection Pressure Advantage

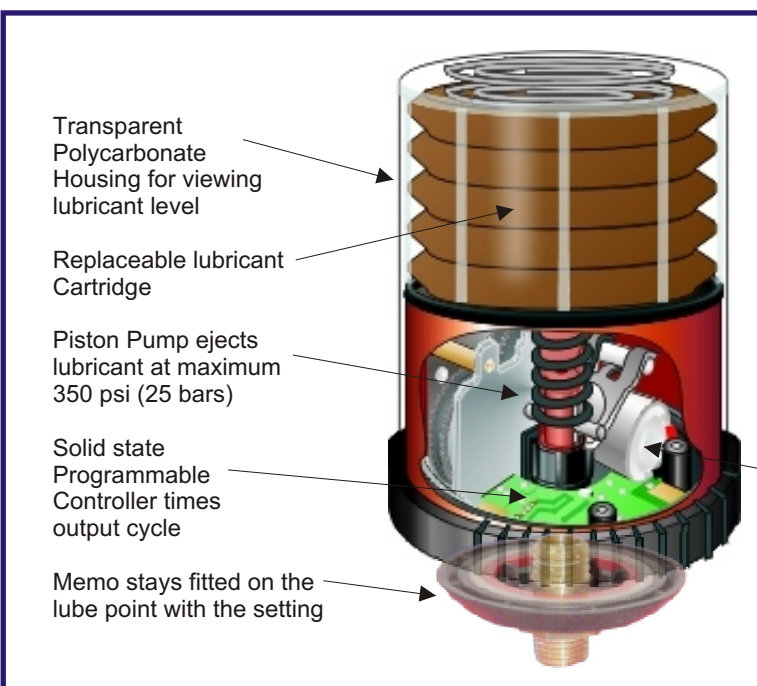
The patented positive displacement piston pump of the **MEMOLUB HPS** ejects lubricant at an astonishing 350psi (25 bars) from the first stroke to the last. When you turn on the **MEMOLUB HPS**, it begins lubricating without delay.

The high lubricant ejection pressure opens new areas of applications not possible with single-point automatic lubricators. **MEMOLUB HPS** can be remotely placed up to 12 meters away from the lube point. It can lubricate 8 lube points simultaneously using a progressive distributor block.

Remote mounting **MEMOLUB HPS** by using tubes offers ease and safety to personnel by enabling them to avoid dangerous areas such as in high temperature, dusty and wet areas, in areas where ladder or man-lift is needed to reach the lube points and in difficult-to-access/enclosed lube points.

It makes possible the continual lubrication of equipment at high temperature areas (ovens) and constantly moving equipment (vibrating screen, elevators) without shutting down the equipment or production line just to apply lubricant.

MEMOLUB HPS makes lubrication possible inside ovens w/o shutting down equipment.



Consumables: Grease Cartridge and Battery Pack

Low cost replacement cartridge and three 1.5v size AA Alkaline batteries are the only consumables required during the many years of service of **MEMOLUB HPS**.

MEMOLUB HPS can be used with many different types of greases such as multi-purpose, heavy duty, low and high temperature, open gear, food grade and with greases of N.L.G.I. classes up to 2/3. **MEMOLUB HPS** can also be used with oil filled cartridges for chain lubrication.

Using **MEMOLUB HPS** with heavy bodied greases is particularly efficient for bearing lubrication in wet, dusty and harsh conditions such as in quarries, cement, coal handling ceramics, sugar, paper, glass and steel plants.

Cartridge replacement is an easy, simple and quick operation. It can be done on the spot or in the shop. Because of its MEMO Sytem, the **MEMOLUB HPS** can be transferred from one lube point to another as it respects the setting of any installed MEMO it is put on.

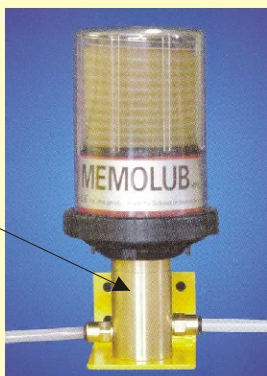
MEMOLUB HPS also has an External Power Supply (EPS) version.

MEMOLUB HPS is a multi-point automatic lubricator when used with a distributor block and steel or flexible tubing



Splitter Memo

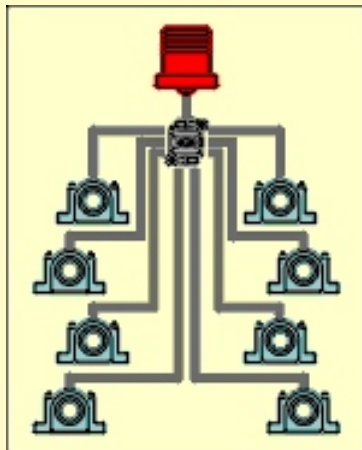
Using Splitter Memo, the **MEMOLUB HPS** becomes a 2 outlet lubricating machine for a more economical lubrication of equipment with 2 lube points like pump, fan and motor.



Splitter Memo

Mini-Centralized Lube System

MEMOLUB HPS can be used for up to 8 lubrication points



Lube point

Difficult to reach lube points become... easier, faster, safer to lubricate!

MEMOLUB HPS installed in a more accessible position



MEMOLUB HPS as a mini-centralized lube system in a food manufacturing equipment



MEMOLUB HPS not only lubricates but also prevents ingress of harmful contaminants into bearings...excellent for sugar, cement, mining, coal handling, and other bulk material handling plants.

How MEMOLUB HPS Works

MEMOLUB HPS is a fully self-contained electro-mechanical lubricator which utilizes a patented positive displacement pump.

The main components are a motor, gearbox, piston pump, microprocessor and a 4.5v battery pack. A cam fitted to the outlet gear drives a lever which lifts the hollow piston and simultaneously compresses a spring. When the piston reaches the top of the stroke, the lever is freed from the cam and the piston begins its downward (working) stroke, driven by the spring. Lubricant is sucked into the chamber formed above the piston during its downward ejection stroke preparing it for the next cycle.

Motor runs on a 4.5v alkaline battery

4.5v Alkaline Battery Pack (not shown), regardless of setting, can empty the grease cartridge with still spare reserve capacity



MEMOLUB HPS with open gear grease

MEMOLUB HPS versus Grease Gun Lubrication

Getting the 4 Rights of lubrication (right lubricant, right lube point, right time and right quantity) is all what good lubrication is about. MEMOLUB HPS does just that.

With grease gun, lubrication relies on the skills, attitude and emotion of the plant attendant doing the lubrication. Thus, wrong lubricant, wrong lube point, infrequent, irregular and over greasing can happen with manual lubrication.

With MEMOLUB HPS, greasing is done little bit at a time but very often. This reduces lubricant consumption and extends mechanical component life because grease quality is maintained and the component is sealed off from harmful contaminants. With manual lubrication, grease quality deteriorates to the point where it causes damage to the component until the grease is replaced at the next greasing period.

Steel Plant

Oil filled MEMOLUB HPS with 8 brushes lubricates chain conveyor

Distributor Block

The lube points are enclosed in a cage... too cumbersome to lubricate manually.

Solution...Remote lubrication with MEMOLUB HPS

Typical Applications

- Conveyors (drives, take-ups, idlers)
- Pumps, Fans, Blowers
- Electric Motors
- Bridge, Stacker and Jib Crane
- Harbour Equipment
- Air Make-up Units
- Air Conditioners
- Industrial Robots
- Waste-water Treatment
- Heat Treat Equipment
- Coal Handling Equipment
- Paper Mill Equipment
- Mining & Cement Equipment
- Beverages Filling Machines
- Ceramics and Steel Plant Equipment

The MEMOLUB HPS Advantages

- Reusable
- Self-contained
- Instant 350 psi pressure
- Precise, consistent and measurable output
- Remote lubrication up to 40 feet (12 meters)
- Can be a mini-centralized lube system
- Available in 3 convenient sizes (120cc, 240cc, 480cc)
- No chemical, no gases
- No grease separation due to the patented feeding system
- MEMO system that ensures the 4 Rights of lubrication
- On/Off function
- Full check function
- Suitable for oil lubrication
- Pumps up to N.L.G.I. 2/3 grade grease
- Low cost consumables

MEMOLUB HPS Specifications

Dimensions (mm)	Standard	115 x 101
	Mega	147 x 101
	Giga	228 x 101
Cartridge Capacity	Standard	120cc
	Mega	240cc
	Giga	480cc
Lubricants.....	Oils and greases up to NLGI 2/3 grade	
Battery pack.....	4.5V Alkaline	
Max. Pressure.....	25 bar (350 psi)	
Electronic controls.....	Quartz timer, microprocessor	
On/Off function.....	Immediate response	
Temp. exposition.....	-40 to +50 deg C	
Installation thread.....	1/4" NPT	
Degree of protection.....	IP66 according to IEC 60529	
Housing.....	Translucent Polycarbonate	
Remote Installation.....	up to 40 feet (12 meters)	
Output Adjustment.....	52 settings	
Pressure Build-up.....	Immediate	
Check Function.....	Yes	
Application.....	up to 8 lube points	



MEMOLUB HPS with Splitter Memo for 2 lube points



Overhead trolley in car mfg plant

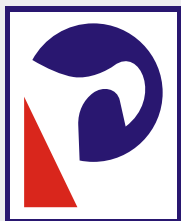
Horizontal mounting is OK



MEMOLUB HPS...when lube points are hundreds of feet above and no platform to walk on to!

Harbour Equipment

Container vans on the ground



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Represented by

MEMOLUB HPS has a one year warranty for replacement due to defects in material and labor. Not responsible for consequential damages beyond replacement or refund of amount paid. MEMOLUB HPS is a registered trademark of MEMOLUB INTERNATIONALS.A., BELGIUM.

Patents and patents pending

MEMOLUB® HPS MEMOLUB® HPS