Alemlube

AUTOMATIC LUBRICATION SYSTEMS & SOLUTIONS

JANUARY 2024

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WHY USE AUTOMATIC LUBRICATION SYSTEMS?

Do you need to keep maintenance costs as low as possible while keeping production at a maximum?

Do you have critical production machines working long hours and cannot afford any unplanned downtime?

Do you have limited labour resources or have a production environment where access for maintenance is difficult or hazardous?

Key Benefits of Automatic Lubrication Systems

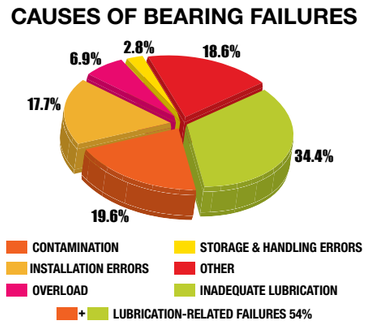
- Increased production because machines run longer when lubrication can be done without switching off
- Unplanned breakdowns are reduced by making sure all bearings are always greased
- Safety is improved when lubrication points are automated and moved away from potentially hazardous areas
- Spare parts consumption and maintenance is reduced when critical components are always optimally lubricated
- Housekeeping and plant safety is improved
- Maintenance staff are freed to perform other critical tasks

Lubrication Systems

Studies have shown that over 50% of bearing failures are lubrication related. By ensuring that machine components are always optimally lubricated, wear is dramatically reduced. At the same time, by replenishing lubricant multiple times per day, every day, a collar of lubricant is maintained to form a barrier against the entry of damaging foreign materials such as water and solid particles (sand, dust, grit).

The Alemlube Team

Alemlube has systems for all applications – industrial, mining and construction, mineral processing, transport, food and beverage. The systems are designed to deliver the right amounts of lubricant at frequent intervals. Alemlube prides itself on offering a cooperative consultation and design process so that system features and benefits are customised to suit the specific needs of each application.



ABOUT ILC LUBRICATION SYSTEMS ITALY

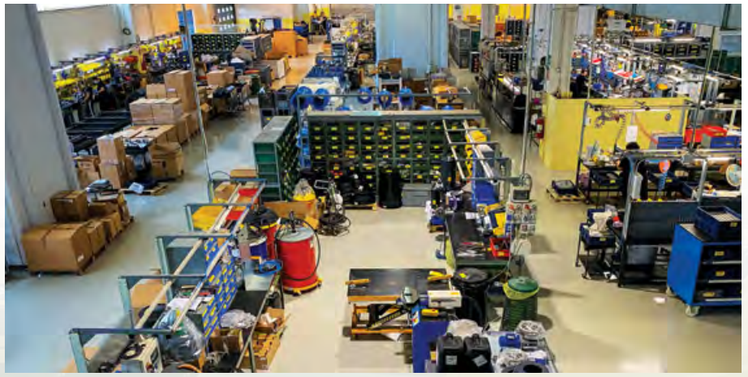
Since 1975 ILC has been designing and manufacturing Lube Systems at their facility as located outside of Milan Italy.

Dedicated R&D, engineering, production and assembly teams are working together to create lubrication equipment that is providing world class solutions around the globe.

Their facility, with a covered area of 5,000m², with latest generation machines facilitate precision manufacturing and provides flexibility when focusing on short lead times and quality components.

Family owned, the company is nimble and quick to respond to changes and opportunities in the marketplace and ILC's R&D and engineering teams, with the aid of sophisticated design and prototyping systems, bring technologically advanced and innovative solutions online quickly and reliably.

Putting customers, OEMs, end users and their distributors first ILC's response times and customer focused approach have been the cornerstone of their success in the past and will no doubt guarantee them a growing presence and enhanced reputation in the worldwide Lube Systems market in the future.



ABOUT ALEMLUBE AUSTRALIA & NEW ZEALAND

Alemlube is a Progressive, Innovative and Customer Focused 100% Australian Family Owned Company

Alemlube is committed to making a valuable contribution to industry in Australia, New Zealand & Papua New Guinea.

As a family owned and operated company, Alemlube is proud of its past and optimistic about the future.

Flexible and quick to react and respond, Alemlube's core philosophy is based on constantly reassessing what industry is looking for and requiring whilst at the same time working with our distributors, mindful of what they need to reach and achieve their goals and objectives.

Representing and working closely with many of the world's leading manufacturers and brands in the fields of lubrication and refuelling equipment, hose storage and retrieval solutions, spill containment products, vehicle hoists and wheel servicing equipment, Alemlube delivers and supplies a complete portfolio of products and services now inclusive of single and multi point lubricators as the third lubrication equipment solutions platform.

With sales capabilities, technical advice and stock available from our branch network that includes offices and warehouses in Sydney, Brisbane, Melbourne, Adelaide, Perth and Auckland, our focus is to provide sales, stock and after sales support in a timely, friendly and professional manner.

Our four separate and yet integrated divisions provide:

- Design, supply, install, commission and maintain automotive and commercial vehicle workshop solutions
- Design, supply, install, commission and maintain mobile equipment and fixed plant Automatic Lubrication Systems
- Off-the-shelf lubrication equipment, fluid transfer and metering and hose storage & retrieval products
- Flow meter, level monitoring, single & multi point Lubricators supply, install and maintenance

As part of our offer, installation and maintenance programs will maximise plant equipment and vehicle uptime, protect your machinery and minimise maintenance and operating costs.

With a wealth of experience and expertise, both from within Alemlube and from our overseas manufacturing partners, Alemlube's knowledgeable and motivated teams understand the important role that our equipment and services play over the lifetime of your fixed plant, mobile equipment, agricultural machinery, trucks, buses, passenger vehicles and power generation facilities.

Alemlube is taking the lead in a constantly evolving market with the productivity and competitiveness of your business in mind.

The Alemlube Network

With on the ground presence in Sydney, Melbourne, Brisbane, Perth, Adelaide, Mackay, Townsville, Auckland and Christchurch, plus a network of trained Distributors, Alemlube can provide expert technical & sales service with installation & service and single & multi point lubricators and flow & level monitoring solutions, Australasia wide.

ALEMLUBE ILC-MAX CHASSIS LUBRICATION SYSTEMS

Alemlube Chassis Kits

Chassis kits are designed for road transport – truck chassis, trailers and garbage trucks.

The typical chassis kit comprises of the following components:

- Pump with on board timer and 4.0kg reservoir, 12vdc or 24vdc
- Pump mounting bracket
- DPX divider valves, designed, assembled and tested or the particular application
- 8.3mm OD grease filled main line hose
- Reusable hose ends
- 6mm grease filled tube bearing lines
- Bearing connection fittings and adaptors
- Spiral wrapping, cable ties and nuts & bolts
- Circuit diagram and parts list

Chassis Lubrication

Designed to provide regular and precise lubrication while the vehicle is on the move, the ALEMLUBE LUBRICATION system saves time and protects vital bearings and pins. The system is based on a robust pump coupled with a progressive divider valve distribution system.

System Features

- 12V or 24V DC pump stations with integral cycle timer, with adjustment for run time and off time
- Designed for use with heavy duty NGLI2 greases
- High pressure operation of up to 280bar forces lubricant into heavily loaded bearings
- Large complicated machines and trailers can be lubricated as successfully as small cab/chassis systems
- The progressive valve circuit provides instant feedback on system status – blocked bearings are detectable at the pump station relief valve
- Robust high pressure installation tubes and fittings

Options

- High pressure couplings for trailers
- Reservoir sizes 2kg, 4kg and 8kg

DPX Divider Valve

Pump Specifications	
Type:	Electric drive radial piston
Delivery:	3.6cc/min
Operating pressure:	280bar
Lubricant type:	Grease up to NGLI2
Outlet:	6mm tube
Timer:	Integral in motor housing
Current draw:	2.5 amp at 24VDC

DPX Divider Valves	
Type:	Stackable
Operating pressure:	300bar maximum
Number of outlets:	1 to 20
Output per section:	25 to 105mm
Inlet:	M10 x 1
Outlet:	M10 x 1

ALEMLUBE ILC-MAX PUMPS WITHOUT CONTROLLERS

Applications

For use in system with pre-existing or built in timers, or for applications for control by PLC.

Specifications

Voltage:	24VDC
Max current draw at 300 Bar:	2.5 amps (24VDC)
Lubricant type:	Up to Grease NLGI2
Reservoir sizes:	4kg, 8kg, both with low level switch standard
No of outlets:	Maximum of 3
Delivery per pump element:	Fixed element – 3.52cm³ per minute (24VDC) Adjustable element – 0.92 to 3.52cm³ per minute (24VDC)
Pressure Relief Valve:	4,060psi (280bar) fitted to each pump element
Outlet size:	1/4"BSP

4K.Z01082.012

Alemlube 24VDC pump with 4kg reservoir, with low level switch, 1 x fixed pump element with relief valve

4K.Z01082.013

Alemlube 24VDC pump with 8kg reservoir, with low level switch, 1 x fixed pump element with relief valve

4K.Z01082.014

Alemlube 24VDC pump with 8kg reservoir with low level switch, 1 x fixed pump element with relief valve

4K.Z01082.015

Alemlube 24VDC pump with 16kg reservoir with low level switch , 1 x fixed pump element with relief valve

4K.Z01082.012

4K.Z01082.013

4K.Z01082.014

4K.Z01082.015

ALEMLUBE ILC-MAX PUMPS WITH BUILT IN FULL FUNCTION CONTROLLERS

Applications

For use in transport, agriculture, construction & mining, industry and can be programmed for full monitoring.

Specifications

Voltage:	12VDC, 24VDC, 240VAC
Maximum current draw at 300 Bar:	5 amps (12VDC) or 2.5 amps (24VDC) or 1 amp (240VAC)
Lubricant type:	Up to Grease NLGI2
Reservoir sizes:	2kg, 4kg, 8kg, all with low level switch standard
No of outlets:	Maximum of 3
Delivery per pump element:	Fixed element – 3.68cm³ per minute (12VDC) or 3.52cm³ per minute (24VDC) or 4.64cm³ per minute (240VAC) Adjustable element – 0.93 to 3.68cm³ per minute (12VDC) or 0.92 to 3.52cm³ per minute (24VDC) or 0.99 to 4.64cm³ per minute (240VAC)
Pressure Relief Valve:	4,060psi (280bar) fitted to each pump element
Outlet size:	1/4" BSP
Controller adjustment:	On time – Digital - adjustable in minutes and seconds Off time – Digital - adjustable in minutes and hours
Controller operating modes:	Lubrication by time and pause by time (standard) Lubrication by time and pause machine counts (selectable) Lubrication by divider cycles and pause by time (selectable) Prelube is selectable
Alarm modes:	Low level alarm (standard) High pressure alarm (optional with addition of HP switch) Cycle alarm (optional with addition of proximity on divider)

4K.2.12DC.FCT.G

ALEMLUBE ILC-MAX PUMPS WITH BUILT IN FULL FUNCTION CONTROLLERS continued

Applications

For use in transport, agriculture, construction & mining, industry and can be programmed for full monitoring.

4K.2.12DC.FCT.G
Alemlube 12VDC pump with 2kg reservoir, with controller, with low level switch, 1 x fixed pump element with relief valve

4K.2.24DC.FCT.G
Alemlube 24VDC pump with 2kg reservoir, with controller, with low level switch, 1 x fixed pump element with relief valve

4K.2.230.FCT.G
Alemlube 240VAC pump with 2kg reservoir, with controller, with low level switch, 1 x fixed pump element with relief valve

4K.4.12DC.FCT.G
Alemlube 12VDC pump with 4kg reservoir, with controller, with low level switch, 1 x fixed pump element with relief valve

4K.4.24DC.FCT.G
Alemlube 24VDC pump with 4kg reservoir, with controller, with low level switch, 1 x fixed pump element with relief valve

4K.4.230.FCT.G
Alemlube 240VAC pump with 4kg reservoir, with controller, with low level switch, 1 x fixed pump element with relief valve

4K.8.12DC.FCT.G
Alemlube 12VDC pump with 8kg reservoir, with controller, with low level switch, 1 x fixed pump element with relief valve

4K.8.24DC.FCT.G
Alemlube 24VDC pump with 8kg reservoir, with controller, with low level switch, 1 x fixed pump element with relief valve

4K.8.230.FCT.G
Alemlube 240VAC pump with 8kg reservoir, with controller, with low level switch, 1 x fixed pump element with relief valve

4K.8F.12DC.FCT.G
Alemlube 12VDC pump with 8kg FAT reservoir with low level switch, 1 x fixed pump element

4K.8F.24DC.FCT.G
Alemlube 24VDC pump with 8kg FAT reservoir with low level switch, 1 x fixed pump element

4K.16.24DC.FCT.G
Alemlube 24VDC pump with 16kg FAT reservoir with low level switch, 1 x fixed pump element

NOTE: All of the family of Alemlube Max Grease Pumps are available, different models for oil systems as well. Typical oil system applications would include Chain Lubrication in Manufacturing Facilities.

4K.4.12DC.FCT.G

4K.8.24DC.FCT.G

4K.8F.24DC.FCT.G

4K.16.24DC.FCT.G

ALEMLUBE MINI-MAX PUMPS WITH BUILT IN FULL FUNCTION CONTROLLERS

Applications

For use in transport, agriculture, construction & mining, industry and can be programmed for full monitoring.

Specifications

Voltage:	12VDC, 24VDC
Maximum current draw at 200 Bar:	7.5 amps (12VDC) or 3.8 amps (24VDC)
Lubricant type:	Up to Grease NLGI2
Reservoir sizes:	1kg with low level switch standard
Number of outlets:	Maximum of 2 large and 8 small outlets
Delivery per pump element:	Fixed element – 2.4cm^3 per minute Adjustable element – 0.3 to 2.4cm^3 per minute Small elements – 0.1cm^3 to 1cm^3 per minute
Pressure Relief Valve:	280 Bar fitted to each pump element
Outlet size:	1/4”BSP
Controller adjustment:	On time – Dipper switch – adjustable from 2 sec to 32 min Off time – Dipper switch - adjustable from 2 min to 32 hours
Controller operating modes:	Lubrication by time and pause by time (standard) Lubrication by divider cycle count and pause by time (selectable) Prelube is selectable
Alarm modes:	Low level alarm (standard) Cycle alarm (optional with addition of proximity on divider)

3K.12TL.F

3K.12TL.F
Alemlube 12VDC pump with 1kg reservoir, with controller, with low level switch, 1 x fixed pump element with relief valve

3K.24TL.F
Alemlube 24VDC pump with 1kg reservoir, with controller, with low level switch, 1 x fixed pump element with relief valve

ALEMLUBE PUMP POWER CABLE

40.CBL.5.10.AK
Alemlube 5 core power cable 10m long

NOTE: Pump power cables must be purchased separately to the pump if required. Enable delivery of power from the power source to the pump. Power cable with 90 deg bayonet plug suits both ILC MAX and MINI MAX pumps, 12VDC and 24VDC models only.

40.CBL.5.10.AK

ALEMLUBE REMOTE MOUNTED CONTROLLER

12-24VDC

Controls progressive systems with adjustable pump running time, pump off time and with manual run button.

- With easy to read display.
- Low level input.
- Cycle input.
- IP67 rating.

40-BCT-BT-DC

ALEMLUBE'S TRITON LUBRICATION SYSTEM

The Alemlube TRITON pump is suited to mining and heavy duty operating conditions. With a 25kg capacity reservoir designed for high speed filling and built in fill shut off, the Alemlube TRITON is both efficient and environmentally friendly.

Designed to supply progressive systems on excavators, dozers, wheel loaders and other high production machines, the Alemlube TRITON is built to withstand vibration and harsh conditions.

Features

- 280Bar operating pressure
- 25kg capacity
- Auto fill shut off
- Powder coated steel construction
- 300 micron high pressure fill point strainer
- 12VDC or 24VDC with built in controller
- Flow rate – 3.68cm^3 per minute (12VDC), 3.52cm^3 per minute (24VDC)
- Built in low level monitoring
- Available with optional full cycle monitoring or high pressure monitoring

ALEMLUBE PUMP ELEMENTS COMPLETE WITH RELIEF VALVES

All Alemlube electric pumps can be equipped, even afterwards, with a 2nd and 3rd pump that can feed other main lines or convey the lubricant delivered in the same pipe.

For more practical end use, the delivery attachment is a 360° swivel joint. An adjustable relief valve is inserted on the side to protect the various elements from over pressures.

Specifications

Pressure relief valve: 280bar, fitted to each element
Outlet size: 1/4" BSP

90.900.0

Alemlube fixed pump element with relief valve (3.68cc/min)

90.900.3

Alemlube adjustable pump element with relief valve (0.92-3.68cc/min adjustable)

90.900.0

90.900.3

ALEMLUBE HIGH PRESSURE SWITCH FOR PUMP ELEMENTS

Specifications

Suits both the fixed and adjustable elements with M12 4 pin connection

097127

Alemlube over pressure switch

40.CPC.4.06

Alemlube over pressure switch cable

097127

40.CPC.4.06

ALEMLUBE FILLING SYSTEMS FOR ALEMLUBE ILC-MAX GREASE PUMPS

ZZZ100-208
Alemlube push fill pump coupling M22 (1 coupling required per pump)

650A
Alemlube 450 grams cartridge push fill grease gun
- Simple and effective filling from 450g cartridges
- More convenient than using a 20kg drum
- No pneumatic or manual bucket pump required
- Operator can keep the 650A and spare cartridges on board
- Low cost fast contamination free grease filling on site

7667
Alemlube 20kg Lever Action Grease Kit
- Ideal for grease transfer applications where compressed air is not available
- Includes a hand operated medium pressure, high volume grease transfer pump
- Suitable for use with 20kg drums
- Delivers up to 77g of grease per stroke
- Develops up to 500psi (34bar) grease pressure
- Supplied inclusive of a drum cover, follower plate, quick connect high volume coupler and 2 metres of delivery hose

424170
Samoa 20kg Air Operated Grease Kit
- 55:1 ratio air motor
- Maximum outlet pressure of 7,700psi (550bar)
- Maximum free flow delivery of 540g/min at 100psi (7bar)
- Air pressure operating range of 22psi (1.5bar) to 140psi (10bar)
- Will handle greases up to NLGI2
- Kit comprises a 55:1 ratio pump plus drum cover, follower plate, carry handle, 2 metres of hose, z swivel and control valve

R80-04M / QDC-04
1/4" BSP High Pressure Fill Coupler & Dust Cover for R80-04M

R80-04F / QDP-04
1/4" BSP High Pressure Fill Coupler & Dust Cover for R80-04F

670AN6
Alemite 450gm 20V battery operated grease gun
Quick & clean filling from 450gm cartridges


650A


ZZZ100-208


7667


R80-04M


QDP-04


424170


R80-04F

QDC-04


670AN6

ALEMLUBE DPX DIVIDER VALVES

Progressive type automatic lubrication systems provide three key benefits:

1 Positive high pressure lubrication

2 Precise volume control and monitoring

3 Built in indication of system blockages or back pressure

Alemlube specialises in the design and supply of progressive systems to provide customers with the best performance, reliability and monitoring.

The Heart of the Progressive System is the Divider

The DPX system doses lubricant with a progressive piston movement. Every piston controls the following one in a sequence obtained through a single delivery flow.
This system is highly qualified for dosing grease to one or more journals or bearing. Each piston is in series with the component before or the one after it and therefore malfunctioning of one of these causes stopping of the sequence and consequently inhibiting of the system.


DPX3-5

DPX Benefits

- Positive discharge of measured quantity of lubricant guaranteed
- Suitable for system functioning control
- Long operational life assured by a careful selection of high grade material and strict quality control
- Operation monitor with indicators and/or contact plugs
- System design flexibility due to large range and combination of sizes


DPX4-8

Applications

A compact, high quality progressive divider for all applications.

Specifications

Standard Material:	Zinc Nickel Plated Steel (ZnNi)
Maximum Pressure:	4,500psi (300bar)
Lubricant Type:	Oil or Grease to NLGI 2
Minimum & Maximum Displacement Per Outlet:	25mm^3 to 210mm^3
Maximum Operating Temperature:	100°C
Inlet:	M10x1
Outlet:	M10x1


DPX6-11

DPX3-2
Alemlube 2 outlets (3 sections)

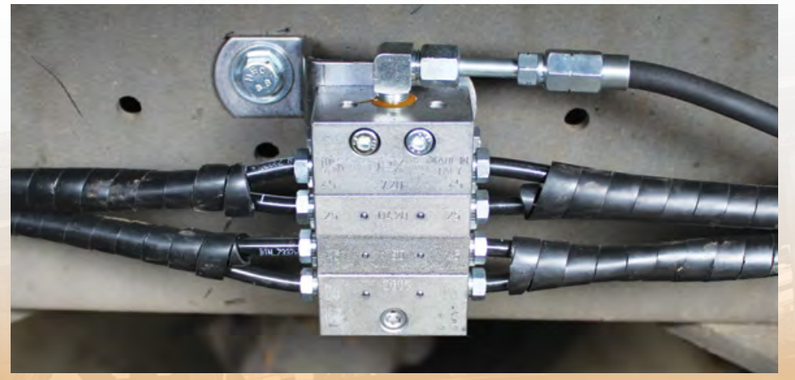
DPX3-3
Alemlube 3 outlets (3 sections)

DPX3-4
Alemlube 4 outlets (3 sections)

DPX3-5
Alemlube 5 outlets (3 sections)

DPX3-6
Alemlube 6 outlets (3 sections)

DPX4-7
Alemlube 7 outlets (4 sections)



ALEMLUBE DPX DIVIDER VALVES continued

DPX4-8
Alemlube 8 outlets (4 sections)

DPX5-9
Alemlube 9 outlets (5 sections)

DPX5-10
Alemlube 10 outlets (5 sections)

DPX6-11
Alemlube 11 outlets (6 sections)

DPX6-12
Alemlube 12 outlets (6 sections)

DPX7-13
Alemlube 13 outlets (7 sections)

DPX7-14
Alemlube 14 outlets (7 sections)

DPX8-15
Alemlube 15 outlets (8 sections)

DPX8-16
Alemlube 16 outlets (8 sections)

DPX9-17
Alemlube 17 outlets (9 sections)

DPX9-18
Alemlube 18 outlets (9 sections)

DPX10-19
Alemlube 19 outlets (10 sections)

DPX10-20
Alemlube 20 outlets (10 sections)

DPX4-8

DPX10-20

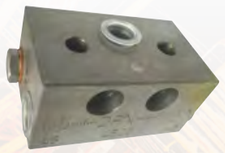
ALEMLUBE DPX INLET SECTIONS

2.A.025.D.1N.M10
Alemlube DPX25 inlet section

2.A.045.D.1N.M10
Alemlube DPX45 inlet section

2.A.075.D.1N.M10
Alemlube DPX75 inlet section

2.A.105.D.1N.M10
Alemlube DPX105 inlet section



2.A.045.D.1N.M10

ALEMLUBE DPX CENTRE SECTIONS

2.B.025.D.1N
Alemlube DPX25 centre section

2.B.045.D.1N
Alemlube DPX45 centre section

2.B.075.D.1N
Alemlube DPX75 centre section

2.B.105.D.1N
Alemlube DPX105 centre divider section

2.B.045.D.3I.M12
Alemlube DPX45 centre section including prox/plug

2.B.075.D.3I.M12
Alemlube DPX75 centre section including prox/plug

2.B.105.D.3I.M12
Alemlube DPX105 centre section including prox/plug

2.B.025.D.1N

2.B.075.D.3I.M12

ALEMLUBE DPX END DIVIDER SECTIONS

2.C.025.D.1N.M10
Alemlube DPX25 end divider section

2.C.045.D.1N.M10
Alemlube DPX45 end divider section

2.C.075.D.1N.M10
Alemlube DPX75 end divider section

2.C.105.D.1N.M10
Alemlube DPX105 end divider section

2.C.045.D.3I.M10.M12
Alemlube DPX45 end divider section including prox/plug

2.C.075.D.3I.M10.M12
Alemlube DPX75 end divider section including prox/plug

2.C.105.D.3I.M10.M12
Alemlube DPX105 end divider section including prox/plug

2.C.075.D.1N.M10

ALEMLUBE VALVE ASSEMBLY TIE RODS

As manufactured in Italy in state of the art CNC machines, the DPX Valve Assembly Tie Rods facilitate the assembly and installation of the divider valve assemblies quickly, cost effectively and efficiently on fixed plant and mobile equipment.

2.TR.03
Alemlube 3 section tie rod

2.TR.04
Alemlube 4 section tie rod

2.TR.05
Alemlube 5 section tie rod

2.TR.06
Alemlube 6 section tie rod

2.TR.07
Alemlube 7 section tie rod

2.TR.08
Alemlube 8 section tie rod

2.TR.09
Alemlube 9 section tie rod

2.TR.10
Alemlube 10 section tie rod

2.TR.11
Alemlube 11 section tie rod

2.TR.12
Alemlube 12 section tie rod


2.TR.03


2.TR.04


2.TR.07

ALEMLUBE BANJO JUNCTION WITH GREASE NIPPLE

Banjo junctions are placed on a progressive distributor inset. Their job is to let us use a manual or hydraulic pump when the main pump does not work.

1001029
Alemlube inlet fitting with grease nipple to suit DPX valve inlet sections


1001029

ALEMLUBE CROSSPORT BRIDGES

09.600.3
Alemlube crossport bridge without outlet

09.600.4
Alemlube crossport bridge with outlet


09.600.3


09.600.4

ALEMLUBE OUTLET CHECK VALVE CONNECTOR

6116803
Alemlube 6mm connector with outlet check


6116803

ALEMLUBE OUTLET PLUG WITH O-RING

A70.093229
Alemlube outlet plug with O-Ring


A70.093229

ALEMLUBE VALVE OUTLET COMPRESSION FITTINGS

04.052.0
Alemlube 6mm tube bush

06.052.0
Alemlube 6mm brass olive


06.052.0
04.052.0

ALEMLUBE INLINE GREASE & OIL FILTERS

High Pressure Inline Filters for Oil and Grease

- Material – Steel, Zinc plated.
- Filter rating – 150 microns for grease, 25 microns for oil
- Maximum operating pressure – 7,250psi (500bar)
- Inlet – 3/8"BSP
- Outlet – 3/8"BSP

7076011 – Grease
07.261.3 – Oil


07.261.3

ALEMLUBE DMX MODULAR DIVIDERS

Features and General Description

DMX is a progressive modular distributor. It measures out and divides lubricant thanks to piston movement. This system is highly qualified to measure out oil and grease for one or more support groups.

Every piston is in line with the previous one and the next one. When a piston fails to work, as for an external obstruction, the whole system stops (this happens even when we place a plug on an unused outlet).

A single control element is enough to check the functioning of the whole distribution system. The DMX modular system consists of two main parts: Base (divided into initial base, intermediate base and final base) and the Metering Elements (available in different outputs).

The system can be easily extended and its modularity allows a low cost component replacement. The assembled base can be installed and connected without Modular Metering elements to make easier the Tube tracking process. Metering elements can be installed later.

Working pressure	Minimum 15Bar – Maximum 5,800psi (400bar)
Lubricants [at minimum working temperature]	Mineral oil with minimum viscosity of 15 cSt at fluid working temperature. Grease consistency NLGI-2 maximum
Working temperature	From -40 °C to + 120 °C
Output for outlet (mm³)	Available piston size 40/ 80 / 160 / 250 / 400 / 500 / 650
Inlet	1/4" BSP
Outlet	1/8" BSP
Number of elements	From 3 to 20
Cycles	Maximum 500
Gasket	O-Ring Viton 90sh
Parts protective coating	Zinc-Nickel 800 hour salt spray tested
Marking	ATEX II GD - CE
Material	Steel, Zn-Ni plated (free of Cr-V) or SS316L
Metering element	Supplied with screw
Element: initial base	Supplied with screw and O-Ring
Element: intermediate base	Supplied with screw, adapter screw and O-Ring
Element: final base	Supplied with screw
Metering valves interchangeability	Graco MSP - Bijur series M2500G - Dropsa series SMX
Bridge element	Supplied with adapter screw. Screw replace junctions bridge in order to convey the output of one or more output into the next one.
By-pass element	Supplied with screw. They are used as a reserve for additional points or for metering valves replacement in case of output reduction
Monitoring element	Visual or inductive
Air purge	2 valves included in the final base
Torque tightening (base)	8 Nm
Torque tightening (elements)	15 Nm

ALEMLUBE DMX MODULAR DIVIDERS continued

Single Bases

3.DMX.A
Initial base

3.DMX.B
Intermediate base

3.DMX.C
Final base


3.DMX.A


3.DMX.B


3.DMX.C

DMX Pre-Assembled Base Sections

3.DMX.03	Alemlube assembled base (3 section)
3.DMX.04	Alemlube assembled base (4 section)
3.DMX.05	Alemlube assembled base (5 section)
3.DMX.06	Alemlube assembled base (6 section)
3.DMX.07	Alemlube assembled base (7 section)
3.DMX.08	Alemlube assembled base (8 section)
3.DMX.09	Alemlube assembled base (9 section)
3.DMX.10	Alemlube assembled base (10 section)


3.DMX.03


3.DMX.10

Metering Valves

Double Outlet

Part No.	Output
3.DMX.004.D.1N	40mm³/cycle
3.DMX.008.D.1N	80mm³/cycle
3.DMX.016.D.1N	160mm³/cycle
3.DMX.025.D.1N	250mm³/cycle
3.DMX.035.D.1N	350mm³/cycle
3.DMX.040.D.1N	400mm³/cycle
3.DMX.050.D.1N	500mm³/cycle
3.DMX.060.D.1N	600mm³/cycle
3.DMX.065.D.1N	650mm³/cycle

Single Outlet

Part No.	Output
3.DMX.004.S.1N	80mm³/cycle
3.DMX.008.S.1N	160mm³/cycle
3.DMX.016.S.1N	320mm³/cycle
3. DMX.025.S.1N	500mm³/cycle
3.DMX.035.S.1N	700mm³/cycle
3. DMX.040.S.1N	800mm³/cycle
3. DMX.050.S.1N	1,000mm³/cycle
3.DMX.060.S.1N	1,200mm³/cycle
3. DMX.065.S.1N	1,300mm³/cycle


3.DMX.065.S.1N

Metering Valves with Cycle Pin Indicator

Double Outlet

Part No.	Output
3.DMX.008.D.2V	80mm³/cycle
3.DMX.016.D.2V	160mm³/cycle
3.DMX.025.D.2V	250mm³/cycle
3.DMX.035.D.2V	350mm³/cycle
3.DMX.040.D.2V	400mm³/cycle
3.DMX.050.D.2V	500mm³/cycle
3.DMX.060.D.2V	600mm³/cycle
3.DMX.065.D.2V	650mm³/cycle

Single Outlet

Part No.	Output
3.DMX.008.S.2V	160mm³/cycle
3.DMX.016.S.2V	320mm³/cycle
3.DMX.025.S.2V	500mm³/cycle
3.DMX.035.S.2V	700mm³/cycle
3.DMX.040.S.2V	800mm³/cycle
3.DMX.050.S.2V	1,000mm³/cycle
3.DMX.060.S.2V	1,200mm³/cycle
3.DMX.065.S.2V	1,300mm³/cycle


3.DMX.065.S.2V

ALEMLUBE DMX MODULAR DIVIDERS continued

Metering Valves with Inductive Sensor M12

Double Outlet

Part No.	Output
3.DMX.008.D.3I.12	80mm³/cycle
3.DMX.016.D.3I.12	160mm³/cycle
3.DMX.025.D.3I.12	250mm³/cycle
3.DMX.035.D.3I.12	350mm³/cycle
3.DMX.040.D.3I.12	400mm³/cycle
3.DMX.050.D.3I.12	500mm³/cycle
3.DMX.060.D.3I.12	600mm³/cycle
3.DMX.065.D.3I.12	650mm³/cycle

Single Outlet

Part No.	Output
3.DMX.008.S.3I.12	160mm³/cycle
3.DMX.016.S.3I.12	320mm³/cycle
3.DMX.025.S.3I.12	500mm³/cycle
3.DMX.035.S.3I.13	700mm³/cycle
3.DMX.040.S.3I.12	800mm³/cycle
3.DMX.050.S.3I.12	1,000mm³/cycle
3.DMX.060.S.3I.12	1,200mm³/cycle
3.DMX.065.S.3I.12	1,300mm³/cycle

3.DMX.065.S.31.12

Crossport Bars

Part No.	Description
3.DMX.L	DMX crossport bar – crossport left
3.DMX.R	DMX crossport bar – crossport right
3.DMX.LR	DMX crossport bar – crossport both

3.DMX.LR

By-Pass Element

Ordering Part No's

Part No.	Model
3.DMX.BP	Zi-Ni

ALEMLUBE DMX-A MODULAR AIR/OIL DIVIDERS

DMX-A

The DMX-A model is designed to send a flow of air/oil to specific lubrication points.
The continuous supply of a mixed air stream, besides lubricating, it also has a cooling effect.
Air exiting the lubrication point prevents the ingress of moisture and contamination.
The air/oil system does not produce oil mist and therefore does not produce fogging.
The constant air flux helps lubricant advancement along the internal walls.
When the lubricant reaches the final point it is spread in particles.

Single Bases – 3.DMX.A.A/B.A/C.A

Part No.	Description
3.DMX.A.A	Initial base
3.DMX.A.B	Intermediate base
3.DMX.A.C	Final base

3.DMX.A.A

3.DMX.A.B

3.DMX.A.C

Outlet Fittings – Outlet Air/Oil Mixing Fittings

Model	Tube	Part No.
Air/oil outlet	6mm	A70.093679
Oil outlet	6mm	A70.093680

ALEMLUBE NUT & OLIVE FITTINGS

Alemlube fittings are of the highest quality Zinc Nickel (ZiNi) coated steel, or stainless steel.

All components are precision crafted and of the highest manufacturing quality and performance standards.

The ZiNi surface treatment process gives a salt spray test result up to 10 times better than passivated zinc plated fittings.

6103768
Alemlube elbow connector 6mm tube x M6/1 (90º)

2103859
Alemlube elbow connector 6mm tube x M6/1 (90º) Stainless Steel

6103736
Alemlube elbow connector 6mm tube x M8/1 (90º)

2103860
Alemlube elbow connector 6mm tube x M8/1 (90º) Stainless Steel

6600332
Alemlube elbow connector 6mm tube x M8/1.25 (90º)

6103767
Alemlube elbow connector 6mm tube x M10/1 (90º)

2103853
Alemlube elbow connector 6mm tube x M10/1 (90º) Stainless Steel

6400081
Alemlube elbow connector 6mm tube x 1/8" BSP (90º)

2104042
Alemlube elbow connector 6mm tube x 1/8" BSP (90º) Stainless Steel

6400140
Alemlube elbow connector 8mm tube x M10/1 (90º)

6129403
Alemlube elbow connector 8mm tube x 1/8" BSP (90º)

6101086
Alemlube straight connector 6mm tube x M6/1

2101228
Alemlube straight connector 6mm tube x M6/1 Stainless Steel

6101047
Alemlube straight connector 6mm tube x M8/1

2101233
Alemlube straight connector 6mm tube x M8/1 Stainless Steel

6400236
Alemlube straight connector 6mm tube x M8/1.25

6101048
Alemlube straight connector 6mm tube x M10/1

2101232
Alemlube straight connector 6mm tube x M10/1 Stainless Steel

6400298
Alemlube straight connector 6mm tube x 1/8" BSP


6103768


6103736


6400081


6101086


6101047


6400298

ALEMLUBE NUT & OLIVE FITTINGS continued

2101424
Alemlube straight connector 6mm tube x 1/8" BSP Stainless Steel

6400120
Alemlube straight connector 8mm tube x M10/1

5100433
Alemlube cap nut for 6mm tube

5100652
Alemlube cutting olive for 6mm LL series fittings

5100668
Alemlube cutting olive for 6mm L & S series fittings

5100372
Alemlube cap nut for 8mm tube

5100641
Alemlube cutting olive 8mm tube


5100433


5100652

ALEMLUBE TUBE & HOSE

Alemlube offers a wide range of grease hose and grease tube to suit a wide range of applications.

Available with and without grease, empty or full, 10m rolls, 50m rolls and 100m rolls are stocked and readily available at each of our 6 branches.

5125622-100
Alemlube tube nylon 6mm dia 70 bar grease filled (100m rolls)

5125622-20
Alemlube tube nylon 6mm dia 70 bar grease filled (20m rolls)

5125623-100
Alemlube tube nylon 6mm dia 70 bar empty (100m rolls)

5125623-20
Alemlube tube nylon 6mm dia 70 bar empty (20m rolls)

5115478-50
Alemlube hose 8.3mm dia 280 bar grease filled (50m rolls)

5115478-10
Alemlube hose 8.3mm dia 280 bar grease filled (10m rolls)

5115481-50
Alemlube hose 8.3mm dia 280 bar empty (50m rolls)

5115481-10
Alemlube hose 8.3mm dia 280 bar empty (10m rolls)

5115480-50
Alemlube hose 11.2mm dia 280 bar grease filled (50m rolls)

ALSSR-25
Alemlube hose spiral cover protection (plastic) – per metre


5125622-100


5115478-50


ALSSR-25

ALEMLUBE HOSE END FITTINGS

As manufactured and supplied primarily from Germany, our broad range of hose end fittings is continuously expanding as new needs, applications and levels of performance arise.

Utilising the latest technology and our extensive service offer, our hose end fittings are quick and easy to install, durable and long lasting.

5116883
Alemlube 8.3mm hose end sleeve


5116883

5116881
Alemlube 11.2mm hose end sleeve

5500134
Alemlube 8.3mm hose end stud, straight - 18mm long


5500134

5500344
Alemlube 8.3mm hose end stud, straight - 24mm long

5500085
Alemlube 8.3mm hose end stud, straight - 30mm long


5500085

5152997
Alemlube 8.3mm 90° hose end stud - 21mm long

5116752
Alemlube 8.3mm 90° hose end stud - 33mm long


5500085

5500216
Alemlube 8.3mm 90° hose end stud - 38mm long

5500247
Alemlube 8.3mm 90° hose end stud - 50mm long


5500247

5500099
Alemlube 8.3mm 45° hose end stud


5500099

5500136
Alemlube 11.2mm hose end stud, straight 22mm

5128787
Alemlube 11.2mm 45° hose end stud


5500136

5500152
Alemlube 11.2mm 90° hose end stud - 35mm long

5500832
Alemlube 11.2mm 90° hose end stud - 55mm long


BT0544

BT0544
Alemlube 8.3mm reusable 7/16" JIC hose end with sleeve

BT0544S
Alemlube 8.3mm reusable 7/16" JIC hose end with sleeve – stainless steel

BT0566
Alemlube 8.3mm reusable 7/16" JIC 90° hose end with sleeve


BT0566

100120200-0704
Alemlube 8.3mm swaged 7/16" JIC hose end with sleeve

ALEMLUBE UNIONS & BULKHEADS

An extensive range of unions and bulkheads are available from Alemlube.
For further information contact the Alemlube branch closest to you.

6105688
Alemlube union 6mm tube joiner


6105688

1000833
Alemlube bulkhead 6mm with grease nipple


1000833

ALEMLUBE HEADER BLOCKS

Available for one to eight lube joints, Alemlube header blocks assist in the lubrication of hard to reach lube points including slides, bearings, pins and bushes.

The also enable operators to group lube points together away from dangerous, noisy or contaminated areas.

6131
Alemlube header block 1 outlet comes with 6mm fittings and grease nipples

6132
Alemlube header block 2 outlets comes with 6mm fittings and grease nipples

6133
Alemlube header block 3 outlets comes with 6mm fittings and grease nipples

6134
Alemlube header block 4 outlets comes with 6mm fittings and grease nipples


6134

6135
Alemlube header block 5 outlets comes with 6mm fittings and grease nipples

6136
Alemlube header block 6 outlets comes with 6mm fittings and grease nipples

6138
Alemlube header block 8 outlets comes with 6mm fittings and grease nipples


6138

ALEMLUBE ADAPTOR FITTINGS

As primarily sourced from and manufactured in Italy and Germany, our extensive range of adaptor fittings are often required to connect to recessed or difficult to access lube points.

5116763
Alemlube adaptor M8/1 male x M10/1 female - 21mm long

9900153
Alemlube adaptor M10/1 male x M10/1 female - 21mm long

1000696
Alemlube adaptor 1/8" BSP male x M10/1 female - 21mm long

5128982
Alemlube adaptor 1/8" BSP male x 1/8" BSP female - 21mm long

1000571
Alemlube adaptor M6/1 male x M10/1 female - 24mm long

5116734
Alemlube adaptor M10/1 male x M10/1 female - 50mm long

5116753
Alemlube adaptor M10/1 male x M10/1 female - 35mm long

5116752
Alemlube adaptor M8/1 male x M8/1 female - 35mm long

1000295
Alemlube adaptor 1/4" BSP male x M10/1 female - 26mm long

9900417
Alemlube 45° elbow M10/1 male x M8/1 female

5901017
Alemlube 45° elbow M8/1 male x M8/1 female

5116796
Alemlube 90° elbow M8/1 male x M8/1 female

5126044
Alemlube 90° elbow M6/1 male x M10/1 female

5126046
Alemlube 90° elbow M8/1 male x M10/1 female

5126797
Alemlube 90° elbow M10/1 male / female

1000272
Alemlube 90° elbow 1/8" BSP male x 1/8" BSP female


5116734


5116796


1000272

ALEMLUBE PUSH IN HIGH PRESSURE FITTINGS

Our range of push in high pressure fittings reduces the amount of time required to complete an installation either on-site or factory fit.

H0040130
Alemlube 90° elbow 6mm tube x M6/1

H0040530
Alemlube 90° elbow 6mm tube x M8/1

H0040630
Alemlube 90° elbow 6mm tube x M10/1

H0040031
Alemlube 90° elbow 6mm tube x 1/8" BSP

H0010130
Alemlube connector 6mm tube x M6/1

H0010530
Alemlube connector 6mm tube x M8/1

H0010630
Alemlube connector 6mm tube x M10/1

H0010031
Alemlube connector 6mm tube x 1/8" BSP

H0080130
Alemlube swivel elbow 6mm tube x M6/1

H0080530
Alemlube swivel elbow 6mm tube x M8/1

H0080031
Alemlube swivel elbow 6mm tube x 1/8" BSP

H0080032
Alemlube swivel elbow 6mm tube x 1/4" BSP


H0040031


H0010630


H0080031

ALEMLUBE PUSH IN HOSE TAILS

1001062G
Alemlube 8.3mm straight hose end stud - 24mm long

5500304G
Alemlube 8.3mm straight hose end stud - 30mm long

1001050G
Alemlube 8.3mm 90° hose end stud - 32mm long

1001054G
Alemlube 8.3mm 90° hose end stud - 50mm long

1001058G
Alemlube 8.3mm 45° hose end stud - 68mm long


1001050G

ALEMLUBE PUSH IN TUBE UNION

M0160030
Alemlube union 6mm tube joiner


M0160030

ALEMLUBE DUST COVER FOR PUSH IN FITTINGS

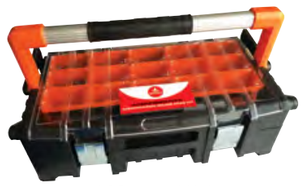
DCPI6
Alemlube dust cover – one required per fitting


DCPI6

ALEMLUBE MAJOR & MINOR GRAB KITS

ACON0820-MAK
Alemlube Construction Major Grab Kit
- Automatic Greasing System Repair kit to suit construction machines
- Replacement fittings, high grease pressure hose/tube to repair damaged grease lines and/or broken fittings
- Assorted thread sizes to suit metric & imperial: 1/8" BSP, 6mmx1mm, 8mmx1mm, 10mmx1mm

ACON0820-MIK as above but Construction Minor Grab Kit


ACON0820-MAK

ATAT0820-MIK
Alemlube Transport Minor Grab Kit
- Automatic Greasing System Repair kit to suit trucks & trailers
- Replacement fittings, high grease pressure hose/tube to repair damaged grease lines and/or broken fittings
- Assorted thread sizes to suit metric & imperial: 1/8" BSP, 6mmx1mm, 8mmx1mm, 10mmx1mm

ATAT0820-MAK as above but Transport Major Grab Kit


ATAT0820-MIK

ALEMLUBE PUMP & DIVIDER BRACKETS AND FUSES

With multiple options to mount pumps and dividers on trucks, trailers and mobile equipment, Alemlube has off the shelf brackets available.

Customised brackets, volume and application dependant, are also available upon request.

SK4083
Floor Mount Pump Bracket

0800800600
Wing Mount Pump Bracket

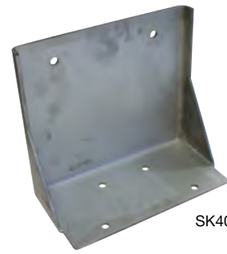
0800800602
Angled K200 Pump Bracket

08005001AU
90 Degree Wall Mount Pump Bracket

SK4095
Wall Mount Pump Bracket

SK4096
DPX Divider Mounting Bracket

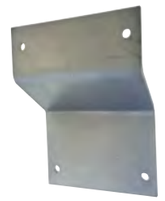
FUSE
5a Blade Fuse And Holder


SK4083


0800800602


0800800600


08005001AU


SK4095


SK4096


FUSE

WPDPX3
DPX divider weld on base 3 sect

WPDPX4
DPX divider weld on base 4 sect

WPDPX5
DPX divider weld on base 5 sect

WPDPX6
DPX divider weld on base 6 sect

WPDPX7
DPX divider weld on base 7 sect


WPDPX3


WPDPX4


WPDPX6

ALEMLUBE DUAL LINE SYSTEMS

The Alemlube Electric Twin-Pump has been designed for all applications that use Dual Line Systems.

The Dual Line Lubrication Systems, generally used on medium and large sized machinery and equipment, operate in harsh or extreme operating conditions for the various points to be lubricated. The systems can be very complex and longer than 100 metres.

Any type of system can be designed and set up in a reliable, efficient manner, with the possibility of expansion in the future.

Typical applications include: Oil Platforms, Cement Plants, Steel Mills, Large Cranes and the Mining sector in general.

Description: The Alemlube Twin 2 Pumps, available with a 30kg or 100kg tank, have been designed with the aim of ensuring high reliability. They are able to develop a maximum pressure of 5,800psi (400bar) and a flow rate of 400cc/1'. The pumps are equipped with electric level gauges, lubricant loading filters, reversing valves, pressure gauges and metal pallets for ground anchorage. The pumps are designed on a modular basis and can be easily configured with very little effort. They have a very sturdy structure and operate effectively at temperatures between -25C to +80C.

Dual-Line lubrication systems are designed to be used on large industrial structures, facilities and systems. DF and DR modular valves specifically designed for dual-line lubrication systems, up to 5,800psi (400bar) pressures. The are available with up to 8 outlets and have many benefits over traditional monoblock dividers. DF-DR are Zi-Ni plated.

A mix of double and single discharge modules can be fitted to each base.
Every module is available in two different flow rates. DF valves come with fixed discharge and DR valves with adjustable discharge. These modules are fitted to bases which are installed and piped to the centralised lubrication system.

Key Features & Benefits:

- Seamlessly adjustable module lubricant discharge
- Reduced failing components maintenance cost
- Visual indicator for system control
- Modular design to adapt to any system needing
- Closing plates for future system expansion.
- Always supplied complete with standard 'O' Rings and fixing screws

57.G.03.SS.X.C.X.A.X

Alemlube Mini-Twin Pump

- Heavy duty 415v pump
- Reservoirs: 10kg and 30kg
- Flow rate: 25cc/min
- 5,800psi (400 bar) maximum pressure

Alemlube Twin Pump

- Heavy duty 415vac pump
- Reservoirs: 30kg and 100kg
- Flow rate: 200cc/min and 400cc/min
- 5,800psi (400 bar) maximum pressure

Modular Dual Line Valves

DR-DF Series

- Construction: Fully modular
- Material: Zinc Nickel (Zn-Ni) plated steel
- Maximum working pressure: 5,600psi (400bar)
- Lubricant Type: Oil or Grease to NGLI#2
- Displacement:
  DR3 – 0.15 to 3.0cc adjustable
  DR5 – 0.5 to 24cc adjustable
- Working Temp: -30ºC to +80ºC
- Inlet: 3/8" BSP
- Outlets: 1/4" BSP

DR33-6

ALEMLUBE DUAL LINE SYSTEMS continued

58.IEM.24DC

Electromagnetic Reverser

- Material: Zinc Nickel (Zn-Ni) plated steel
- Maximum working Pressure: 5,800psi (400bar)
- Lubricant Type: Oil or Grease to NGLI#2
- Available voltages: 24VDC, 24VAC, 120VAC, 240VAC
- Working Temp: -30ºC to +80ºC
- Inlet/Outlets: 3/8" BSP

55.ISP10

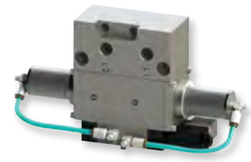
Hydraulic Reverser

- Material: Zinc Nickel (Zn-Ni) plated steel
- Maximum working Pressure: 4,200psi (300bar)
- Changeover pressure adjustment: 50 – 300bar
- Lubricant Type: Oil or Grease to NGLI#2
- Working Temp: -25ºC to +70ºC
- Inlet/Outlets: 3/8" BSP

58.IEP.24DC

Pneumatic Reverser

- Material: Zinc Nickel (Zn-Ni) plated steel
- Maximum working Pressure: 5,600psi (400bar)
- Lubricant Type: Oil or Grease to NGLI#2
- Available voltages: 24VDC, 24VAC, 120VAC, 240VAC
- Working Temp: -30ºC to +70ºC
- Inlet/Outlets: 3/8" BSP



ALEMLUBE MINING / INDUSTRIAL CABINETS

Alemlube prebuilt cabinet lubrication systems are ideal for industrial, mining and mineral processing fixed plant applications.

Alemlube's ALS team can design the divider configuration to suit the lube requirements, and add monitoring systems to suit the applications needs.

The cabinet systems can be utilised as complete fully tested stand alone systems, or they can act as the pump/master divider combination for much larger systems with secondary dividers installed downstream.

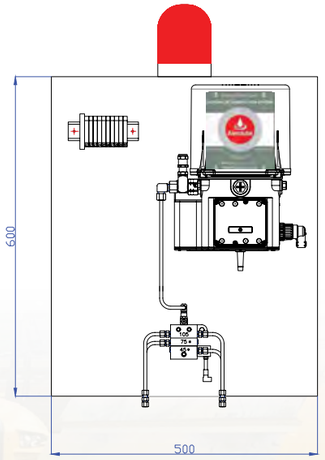
The Medium and Large Mining/Industrial cabinets have outlets on the side gland plates which can be engraved with the lubrication points names.

The medium and large cabinet systems are based on Australian made heavy duty custom designed cabinets designed to take the stress and vibration of mining and mineral processing plant applications.

All cabinets are pre-wired and fully checked and pressure tested before dispatch to ensure easy leak free installation on site.

COMPACT INDUSTRIAL CABINETS - WITH 4KG ALS PUMP & DPX DIVIDERS - WITH BUILT IN CONTROLLER

- Heavy duty Australian made cabinet 600h x 500w x 300d with ALS 24vdc 4kg pump, with timer, with DPX divider installed with 6mm bulkhead outlets on left and right.
- Includes grease point enabling manual lubrication or priming of the system.
- For connection to bearings with 6mm tube fittings.
- Pump is standard with low level alarm and red flashing LED beacon on top wired to terminal strip inside the cabinet.
- Includes compact 150 micron fill point strainer.
- The standard pump controller can be configured to work with a divider cycle switch to accurately monitor lubricant flow and provide a cycle fault alarm in addition to the standard low level alarm

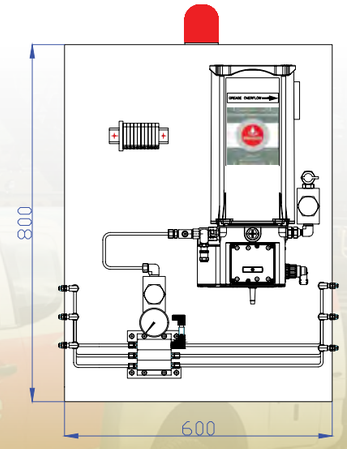


ALEMLUBE MINING / INDUSTRIAL CABINETS continued

	SMALL CABINET 4KG 24DC PUMP WITH CONTROLLER, WITH LOW LEVEL ALARM CONTROLLED BY THE PUMP	SMALL CABINET 4KG 24DC PUMP WITH CONTROLLER, WITH CONTROL BY CYCLES & LOW LEVEL ALARM CONTROLLED BY THE PUMP	SMALL CABINET 4KG 24DC PUMP **WITHOUT CONTROLLER**, FOR CONTROL BY SITE PLC WITH CYCLE SWITCH & LOW LEVEL SWITCH
No. OF OUTLETS	**MODEL**	**MODEL**	**MODEL**
2 outlets	ALS.C4.24.CT.2	ALS.C4.24.CT.2.C	ALS.C4.24.CE.2.C
3 outlets	ALS.C4.24.CT.3	ALS.C4.24.CT.3.C	ALS.C4.24.CE.3.C
4 outlets	ALS.C4.24.CT.4	ALS.C4.24.CT.4.C	ALS.C4.24.CE.4.C
5 outlets	ALS.C4.24.CT.5	ALS.C4.24.CT.5.C	ALS.C4.24.CE.5.C
6 outlets	ALS.C4.24.CT.6	ALS.C4.24.CT.6.C	ALS.C4.24.CE.6.C
7 outlets	ALS.C4.24.CT.7	ALS.C4.24.CT.7.C	ALS.C4.24.CE.7.C
8 outlets	ALS.C4.24.CT.8	ALS.C4.24.CT.8.C	ALS.C4.24.CE.8.C
9 outlets	ALS.C4.24.CT.9	ALS.C4.24.CT.9.C	ALS.C4.24.CE.9.C
10 outlets	ALS.C4.24.CT.10	ALS.C4.24.CT.10.C	ALS.C4.24.CE.10.C
11 outlets	ALS.C4.24.CT.11	ALS.C4.24.CT.11.C	ALS.C4.24.CE.11.C
12 outlets	ALS.C4.24.CT.12	ALS.C4.24.CT.12.C	ALS.C4.24.CE.12.C
13 outlets	ALS.C4.24.CT.13	ALS.C4.24.CT.13.C	ALS.C4.24.CE.13.C
14 outlets	ALS.C4.24.CT.14	ALS.C4.24.CT.14.C	ALS.C4.24.CE.14.C

MEDIUM MINING/INDUSTRIAL CABINETS - WITH 8KG ALS PUMP & DMX DIVIDERS - WITH BUILT IN CONTROLLER

- Super duty Australian made cabinet with dust cover over the door 800h x 600w x 300d with ALS 24vdc 8kg pump, with timer, with DMX divider installed and tubed to 7/16"JICM bulkheads on the left and right gland plates.
- Includes outlet grease filter, pressure gauge and grease point enabling manual lubrication or priming of the system.
- All outlets include 150 Bar pop out pressure indicator for easy troubleshooting.
- For connection to bearings with 7/16"JIC hose ends.
- Pump is standard with low level alarm and red flashing LED beacon on top wired to terminal strip inside the cabinet.
- Pump includes fill point filter and fill coupling.
- The standard pump controller can be configured to work with a divider cycle switch to accurately monitor lubricant flow and provide a cycle fault alarm in addition to the standard low level alarm

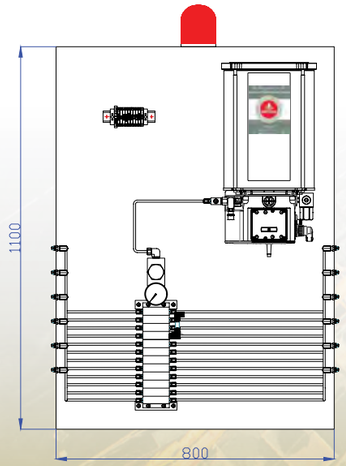


ALEMLUBE MINING / INDUSTRIAL CABINETS continued

	MEDIUM CABINET 8KG 24DC PUMP WITH CONTROLLER, WITH LOW LEVEL ALARM CONTROLLED BY THE PUMP	MEDIUM CABINET 8KG 24DC PUMP WITH CONTROLLER, WITH CONTROL BY CYCLES & LOW LEVEL ALARM CONTROLLED BY THE PUMP	MEDIUM CABINET 8KG 24DC PUMP **WITHOUT CONTROLLER**, FOR CONTROL BY SITE PLC WITH CYCLE SWITCH & LOW LEVEL SWITCH
No. OF OUTLETS	**MODEL**	**MODEL**	**MODEL**
2 outlets	ALS.C8.24.CT.2	ALS.C8.24.CT.2.C	ALS.C8.24.CE.2.C
3 outlets	ALS.C8.24.CT.3	ALS.C8.24.CT.3.C	ALS.C8.24.CE.3.C
4 outlets	ALS.C8.24.CT.4	ALS.C8.24.CT.4.C	ALS.C8.24.CE.4.C
5 outlets	ALS.C8.24.CT.5	ALS.C8.24.CT.5.C	ALS.C8.24.CE.5.C
6 outlets	ALS.C8.24.CT.6	ALS.C8.24.CT.6.C	ALS.C8.24.CE.6.C
7 outlets	ALS.C8.24.CT.7	ALS.C8.24.CT.7.C	ALS.C8.24.CE.7.C
8 outlets	ALS.C8.24.CT.8	ALS.C8.24.CT.8.C	ALS.C8.24.CE.8.C
9 outlets	ALS.C8.24.CT.9	ALS.C8.24.CT.9.C	ALS.C8.24.CE.9.C
10 outlets	ALS.C8.24.CT.10	ALS.C8.24.CT.10.C	ALS.C8.24.CE.10.C
11 outlets	ALS.C8.24.CT.11	ALS.C8.24.CT.11.C	ALS.C8.24.CE.11.C
12 outlets	ALS.C8.24.CT.12	ALS.C8.24.CT.12.C	ALS.C8.24.CE.12.C

LARGE MINING/INDUSTRIAL CABINETS - WITH 16KG ALS PUMP & DMX DIVIDERS - WITH BUILT IN CONTROLLER

- Super duty Australian made cabinet with dust cover over the door 1,000h x 800w x 400d with ALS 24vdc 16kg pump, with timer, with DMX divider installed and tubed to 7/16"JICM bulkheads on the left and right gland plates.
- Includes outlet grease filter, pressure gauge and grease point enabling manual lubrication or priming of the system.
- All outlets include 150 Bar pop out pressure indicator for easy troubleshooting.
- For connection to bearings with 7/16"JIC hose ends.
- Pump is standard with low level alarm and red flashing LED beacon on top wired to terminal strip inside the cabinet.
- Pump includes fill point filter and fill coupling.
- The standard pump controller can be configured to work with a divider cycle switch to accurately monitor lubricant flow and provide a cycle fault alarm in addition to the standard low level alarm



ALEMLUBE MINING / INDUSTRIAL CABINETS continued

	LARGE CABINET 16KG 24DC PUMP WITH CONTROLLER, WITH LOW LEVEL ALARM CONTROLLED BY THE PUMP	LARGE CABINET 16KG 24DC PUMP WITH CONTROLLER, WITH CONTROL BY CYCLES & LOW LEVEL ALARM CONTROLLED BY THE PUMP	LARGE CABINET 16KG 24DC PUMP **WITHOUT CONTROLLER**, FOR CONTROL BY SITE PLC WITH CYCLE SWITCH & LOW LEVEL SWITCH
No. OF OUTLETS	**MODEL**	**MODEL**	**MODEL**
2 outlets	ALS.C16.24.CT.2	ALS.C16.24.CT.2.C	ALS.C16.24.CE.2.C
3 outlets	ALS.C16.24.CT.3	ALS.C16.24.CT.3.C	ALS.C16.24.CE.3.C
4 outlets	ALS.C16.24.CT.4	ALS.C16.24.CT.4.C	ALS.C16.24.CE.4.C
5 outlets	ALS.C16.24.CT.5	ALS.C16.24.CT.5.C	ALS.C16.24.CE.5.C
6 outlets	ALS.C16.24.CT.6	ALS.C16.24.CT.6.C	ALS.C16.24.CE.6.C
7 outlets	ALS.C16.24.CT.7	ALS.C16.24.CT.7.C	ALS.C16.24.CE.7.C
8 outlets	ALS.C16.24.CT.8	ALS.C16.24.CT.8.C	ALS.C16.24.CE.8.C
9 outlets	ALS.C16.24.CT.9	ALS.C16.24.CT.9.C	ALS.C16.24.CE.9.C
10 outlets	ALS.C16.24.CT.10	ALS.C16.24.CT.10.C	ALS.C16.24.CE.10.C
11 outlets	ALS.C16.24.CT.11	ALS.C16.24.CT.11.C	ALS.C16.24.CE.11.C
12 outlets	ALS.C16.24.CT.12	ALS.C16.24.CT.12.C	ALS.C16.24.CE.12.C
13 outlets	ALS.C16.24.CT.13	ALS.C16.24.CT.13.C	ALS.C16.24.CE.13.C
14 outlets	ALS.C16.24.CT.14	ALS.C16.24.CT.14.C	ALS.C16.24.CE.14.C
15 outlets	ALS.C16.24.CT.15	ALS.C16.24.CT.15.C	ALS.C16.24.CE.15.C
16 outlets	ALS.C16.24.CT.16	ALS.C16.24.CT.16.C	ALS.C16.24.CE.16.C
17 outlets	ALS.C16.24.CT.17	ALS.C16.24.CT.17.C	ALS.C16.24.CE.17.C
18 outlets	ALS.C16.24.CT.18	ALS.C16.24.CT.18.C	ALS.C16.24.CE.18.C
19 outlets	ALS.C16.24.CT.19	ALS.C16.24.CT.19.C	ALS.C16.24.CE.19.C
20 outlets	ALS.C16.24.CT.20	ALS.C16.24.CT.20.C	ALS.C16.24.CE.20.C
21 outlets	ALS.C16.24.CT.21	ALS.C16.24.CT.21.C	ALS.C16.24.CE.21.C
22 outlets	ALS.C16.24.CT.22	ALS.C16.24.CT.22.C	ALS.C16.24.CE.22.C
23 outlets	ALS.C16.24.CT.23	ALS.C16.24.CT.23.C	ALS.C16.24.CE.23.C
24 outlets	ALS.C16.24.CT.24	ALS.C16.24.CT.24.C	ALS.C16.24.CE.24.C

ALEMLUBE LUBRICATION SYSTEMS
CX-1 SINGLE LINE GREASE INJECTORS & MANIFOLD KITS

CX-1 single replacement injector with cap

CX-1 Injectors

Technical Data

- Operating pressure: Maximum 141bar Minimum 127bar
- Relief pressure: < 41bar
- Temperature range: -30°C to +150°C
- Metering lubricant: Fluid grease, grease up to NLGI 2
- Metering volume: 0.13cc to 1.31cc
- Material: Steel, zinc/nickel plated
- Number of outlets or metering valve of a single line distributor: Minimum 1 Maximum 6

Technical Description

The single line CX-1 injectors supply the lubricant via pump pressure into lines and thus directly to the lubrication points.

Each outlet has one lube point. The lubricant metering for each lube point can be directly adjusted at each distributor.

The single line CX-1 injectors have indicator pin for visual function control.

PART NUMBER	INJECTORS, DISCS & MANIFOLDS	LINCOLN PART No.	INTER-CHANGEABLE
02.940.1.G.01	CX-1 manifold bank with 1 injector	81770-1	Yes
02.940.1.G.02	CX-1 manifold bank with 2 injectors	81770-2	Yes
02.940.1.G.03	CX-1 manifold bank with 3 injectors	81770-3	Yes
02.940.1.G.04	CX-1 manifold bank with 4 injectors	81770-4	Yes
02.940.1.G.05	CX-1 manifold bank with 5 injectors	81770-5	Yes
02.940.1.G.06	CX-1 manifold bank with 6 injectors	81770-6	Yes
01.190.1	CX-1 bare manifold 1 position	12658	Yes
01.190.2	CX-1 bare manifold 2 position	11962	Yes
01.190.3	CX-1 bare manifold 3 position	11963	Yes
01.190.4	CX-1 bare manifold 4 position	11964	Yes
01.190.5	CX-1 bare manifold 5 position	11965	Yes
01.190.6	CX-1 bare manifold 6 position	246965	Yes

ALEMLUBE LUBRICATION SYSTEMS
SINGLE LINE GREASE INJECTORS & MANIFOLD KITS

ASL-1-HO High Output Injectors & Manifold Assemblies

Technical Data

- Adjustable output from .035 Cu-in to .305 Cu-in
- Maximum/minimum operating pressure 6000psi/1850psi
- Comes standard with 1/8 nptf stainless steel fill fitting
- 4-6 Times greater flow path allows for faster venting
- Enhanced engineering to outperform current injector technology
- Heavy duty springs for improved life cycle
- Vinyl protective caps included with every injector
- Vent pressure 1000psi

PART NUMBER	INJECTORS
ASL-M1A-000-HO	1
ASL-M2A-000-HO	2
ASL-M3A-000-HO	3
ASL-M4A-000-HO	4
ASL-M5A-000-HO	5
ASL-M6A-000-HO	6
ASL-1-000-HO	Standalone Injector (high output)
ASL-1A-000-HO	Replacement Injector (high output)

ASL-1-R5 High Output Injectors & Manifold Assemblies

Technical Data

- Adjustable output from .008 Cu-in to .080 Cu-in
- Maximum/minimum operating pressure 7500psi/1850psi
- Comes standard with 1/8 nptf stainless steel fill fitting
- Vinyl protective caps included with every injector
- Vent pressure 600psi

PART NUMBER	INJECTORS
ASL-M1A-000-R5	1
ASL-M2A-000-R5	2
ASL-M3A-000-R5	3
ASL-M4A-000-R5	4
ASL-M5A-000-R5	5
ASL-M6A-000-R5	6
ASL-1A-000-R5	Standalone Injector
ASL-1-000-R5	Replacement Injector

ALSL-11 Injectors

Technical Data

- Operating pressure: Maximum 340bar, Minimum 68bar
- Relief pressure: < 55bar
- Temperature range: -40°C to + 93°C
- Metering lubricant: Fluid grease, grease up to NLGI 2
- Metering volume: 0.8 to 8cm³/stroke
- Material: Steel, zinc/nickel plated
- Weight: Metering valve 2.8 kg
- Filling connection: 0.02 kg

Technical Description

The metering valve supply the lubricant via pump pressure into the line and thus directly to the lubrication point. The lubricant metering is infinitely adjustable. The metering valve BL-11 has an indicator pin for visual function control.

Accessories

Optionally you can order a protective cap to protect the adjustment screw and metering bushings for quick adjustment of meeting volume.

PART NUMBER
ALSL-11

ALEMLUBE LUBETOOL FOR A MULTITUDE OF PRECISION INDUSTRIAL OILING APPLICATIONS

Lubetool Components

Lubetool Micro-Lubrication Systems are designed for use primarily in metal cutting and metal forming processes to replace flood lubrication and recirculating soluble oil coolants. However, Lubetool has many other applications where precise minimal lubrication by heavier than air lubricating oil droplets is the most efficient and cheapest lubrication method available.

Each Lubetool outlet has it's own fully adjustable mini pneumatic pump and air and oil are supplied to the application points in coaxial line with the oil in a 2.5mm tube inside a 6mm air tube! Standard delivery line length is 5m.

Pump stations are available with a built in adjustable pneumatic frequency generator to automatically cycle the pumps when the air is supplied.

Unique Advantages

- Lubetool supplies precise quantities adjustable from 0mm^3 to 41mm^3 – no guesswork
- The lubricant is carried by air with pinpoint accuracy
- All pumps and nozzles can operate independently
- Easy lubricant and air flow adjustment
- Minimal or no equipment modifications required – easy retro fit installation
- Durable pump stations and reservoirs with low level alarm
- Multiple types of application nozzles are available for different jobs.

Applications

- Metal cutting and drilling
- Rollforming, bending and stamping
- Machine tools
- Circular saws
- Bandsaws
- Monorail and chain lubrication
- Food and beverage equipment
- Applying specialist coatings

COMMERCIAL VEHICLE WORKSHOP EQUIPMENT

Representing Ravaglioli Italy, and with an experienced and motivated sales and technical support team, Alemlube has a lifting and wheel service solution for nearly all applications and requirements.

The range includes mechanical and wireless column lifts, 4 post lifts, knuckle lifts, wheel aligners, wheel balancers and tyre changers.

Covered by a comprehensive 2 year warranty and backed up by sound technical support around the country and prompt supply of spare parts as required, you can trust and rely on the servicing and maintenance of your fleet, mobile AG equipment, excavators and wheel loaders, golf carts and buses to Ravaglioli equipment as Italy's, number one capital workshop equipment manufacturing company and maintained by Alemlube and the Alemlube Sales & Technical Support Team.

And for those companies who do not use their workshop equipment often and who may be on a tight budget, our Alemlube Automotive range of quality workshop equipment is a viable lower cost option.

PULSARLUBE SINGLE & MULTI POINT GREASE LUBRICATORS

Pulsarlube Single & Multi Point Lubricators demonstrate definitive advantages over the competition. Many organisations are aware that excellent lubrication is a crucial step and a good investment to optimise machinery life.

However in reality, the lubrication budget is often treated as secondary and is frequently one of the first areas for budget cuts. It can be difficult to find the right way, the right time
and the right amount to lubricate while determining what the “best lubrication solution” is for your machinery because optimum lubrication practices require skill, time, manpower and money.

Enter Pulsarlube Single & Multi Point Grease Lubricators: your trusted & reliable lubrication partner.

Pulsarlube offers a variety of lubrication products to solve all your lubrication needs.

Pulsarlube **E Series**

Gas Type Lubricators

- Specially designed to endure high vibration
- Compact, economical and disposable
- 60/120/240cc capacity
- IECEx/ATEX approved
- IP68 protection class
- Dispensing periods of 1, 3, 6, 12 months
- Transparent container and cap for easy visual inspection of remaining lubricant & dispensing periods

E Series

Pulsarlube **M Series**

Electro-Mechanical High Pressure Lubricators

- Up to 8 lube points for multi point / maximum 10m for single point
- Easy to program with built-in backlit LCD & simple button controls
- Optional lithium battery pack available for low temperature usage (to -40ºC)
- Replaceable grease pouches & battery packs
- Average operating pressure of 425psi (30kgf/cm2)
- IP65 rating

M Series

Pulsarlube **EXP Series**

Electro-Mechanical Explosion Proof Lubricators for use in Hazardous Areas

- Easy to program with built-in LCD and simple button controls
- Service Pack: Substantial savings from the use of replaceable grease pouch and battery packs & PVC dust cover (Service Packs)
- The industry’s first highest explosion-proof certified lubricator
- UIL certified, remote installation capability, advanced diagnostics
- 60/120/240/480cc capacity
- ATEX approved & IP54 protection class
- Can be used in applications involving up to 8 lube points
- Maximum distance of 3 metres of 6mm OD tube when using the unit in single point applications

EXP Series

Pulsarlube **MSP Series - VAC/VDC**

Machine Synchronised externally powered Electro-Mechanical Lubricators

- Synchronised dispenses a pre-set amount of lubricant only when equipment is in operation - synchonised which prevents over lubrication
- Dispensing periods of 1 month to 24 months
- Easy to program with built-in LCD and simple button controls
- Service pack replacement
- 60/125/250/500cc capacity

All models are suitable for greases up to NLGI2

MSP Series

PULSARLUBE SINGLE & MULTI POINT GREASE & OIL LUBRICATORS

Pulsarlube **BT Series**

Bluetooth Lubricators

- Automatically synchronised with BT App
- Many lubricators can be installed on monitor with single App
- Can be used in confined or unsafe areas
- Easy maintenance thru wireless communication and receive/send data with Pulsarlube BT App
- Phone APP shows lubricator status, location and current condition
- BT Apps can monitor website data and allow data management
- BLE (Bluetooth Low Energy) Module
- Service Pack: Substantial savings from the use of replaceable grease pouch and battery packs and PVC dust cover (Service Packs)
- Can be used in applications involving up to 8 lube points
- Maximum distance of 3 metres of 6mm OD tube when using the unit in multi point applications

BT Series

PLC Series

Pulsarlube **PLC Series - NPN/PNP**

Electro-Mechanical Lubricators that integrates with a PLC

- PLC control
- Communication with external alarm facility
- Service pack replacement
- Convenient: NPN and PNP connections
- 60/120/240/480cc capacity

Pulsarlube **Mi Series**

Synchronised Electro-Mechanical Lubricators with a Vibration Sensor

- Synchronised to equipment without electrical wiring
- Vibration sensor with adjustable sensitivity range
- Service pack replacement
- 60/125/250cc capacity
- Can be used in applications involving up to 2 lube points
- Maximum distance of 1 metres of 6mm OD tube when using the unit in single point applications

Mi Series

Pulsarlube **Multi Point Remote Mounting Kits**

Remote Mounting Kits for use with M Series

- Remote installation lubricates up to 8 greasing points
- Kits are available to suit 2, 3, 4, 5, 6, 7 & 8 greasing points

Remote Mounting Kit

Pulsarlube **Service Packs**

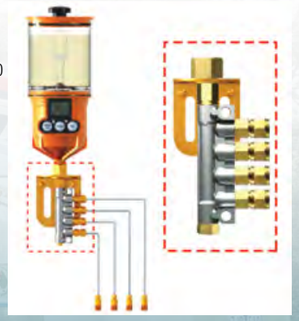
Service Packs Include

- 1 grease bladder
- 1 pack of 3 alkaline batteries
- 1 dust cover
- 1 management label
- Service Packs are replacements kits for Pulsarlube electro-mechanical lubricators
- Empty bladder available to fill with your grease of choice

Pulsarlube **OL500 Series**

Electro-Mechanical Oiler

- Refillable, compatible with a wide range of oil viscosities
- Multi point capability (up to 4 lube points for multi point installation maximum 6m
- 500cc



OL500

ALEMLUBE IN ACTION - TRANSPORT

Road transport today is the busiest and most competitive it has ever been, with trucks commonly travelling over 6,000km per week.

Servicing intervals have become longer and the times the trucks are available for servicing have become shorter.

Keeping critical chassis components properly greased has been one of the most difficult maintenance tasks due to its high frequency and time consuming nature.

The **ALEMLUBE LUBRICATION SYSTEM** greases the critical points on the move, every hour, with a carefully measured doses of NLGI#2 grease.

This increases productivity and increases the return on investment by allowing the truck to stay on the road and not be required to come back to the workshop for hand greasing.

In addition, the small amounts of fresh grease injected into each point each hour ensures that critical components are maintained in optimum working condition all the time. The **ALEMLUBE LUBRICATION SYSTEM** maintains a protective barrier of fresh grease around all pins and bushes, preventing the entry of damaging contamination.

This reduces long term wear and tear and keeps trucks on the road and out of the workshop. Truck steering and tyre wear is improved.

Higher Productivity

New engine technology is permitting longer and longer service intervals, which can translate into lower costs and greater productivity if an **ALEMLUBE LUBRICATION SYSTEM** is installed.

Using #2 grease, the system ensures that a water and dust proof barrier is constantly maintained around all pins and bushes. This keeps critical components clean and contamination free.

Our customers report shackle pin and king pin life of two to three times longer when compared to hand greased or liquid grease greased trucks. This means lower parts and repairs bills and higher fleet availability.

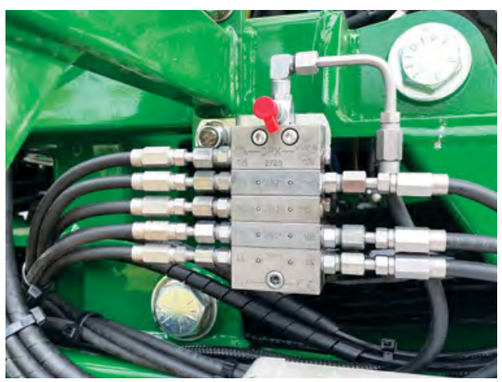
It also means a more productive and more profitable business.

ALEMLUBE IN ACTION - AGRICULTURE

Agriculture today is a 24 hours per day business.

Fast, efficient and timely operations are critical to success, hence the huge investments in seeders, sprayers, harvesters and other ag machines to ensure that crops are planted, nurtured and harvested at the optimum times.

ALEMLUBE LUBRICATION SYSTEMS play an important role.



Many agricultural machines have 50 to 100 grease points and work in extreme conditions, day and night.

Keeping up with hand greasing can be extremely difficult because of the large numbers of grease points required to be greased on a daily basis.

There are often tremendous pressures to keep the machines working - before it rains, or to coordinate with other critical tasks.

Automatic Greasing

The **ALEMLUBE LUBRICATION SYSTEM** allows critical maintenance work to be done while the machine is working.

Working in harsh farming environments, regular greasing is essential to keep pins smooth and wear free. Pins fail quickly if contamination is not controlled.

By supplying fresh #2 grease to the bearings every 30 minutes, the **ALEMLUBE LUBRICATION SYSTEM** maintains a protective barrier to protect each point from the entry of dust, dirt and water. This prevents pins from getting tight and prevents failures in the field.

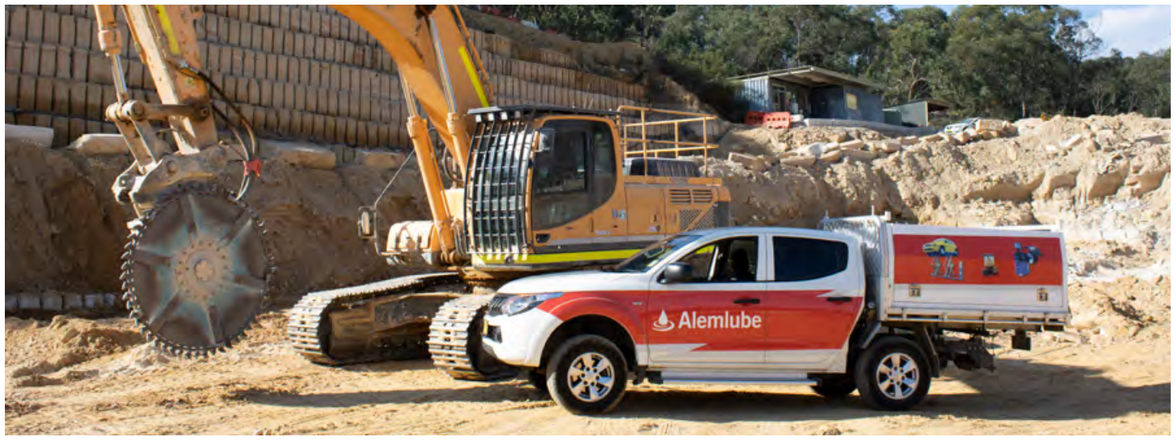
Farmers can sew and harvest around the clock knowing that their machines vital components are being cared for as they work.

Breakdowns are reduced and time critical farming tasks can be completed more efficiently and proficiently.

ALEMLUBE IN ACTION - CONSTRUCTION & QUARRY

Wheel loaders, excavators and other quarry and construction machines work in arduous conditions where sand, dirt, dust and water contamination is a huge cost of maintaining the fleet.

Greasing once, or even twice a day is simply not enough to prevent wear and tear and premature replacement of pins and bushes.



The **ALEMLUBE LUBRICATION SYSTEM** is progressive in function, ensuring that grease points cannot block without you knowing.

All pumps come standard with low level alarm and can be fitted with full cycle monitoring to give peace of mind that the correct volumes of lubricant are being distributed at all times.

Construction Machines

Managing the time and resources to properly maintain construction machines can be difficult and expensive.

The machines work in hostile environments and need greasing at least once or twice a day, and they can be scattered across different work sites or quarries requiring time consuming and expensive travel to and from each machine.

In addition, if a critical production machine does have a bearing failure, a replacement machine may have to be hired and transported to the site to take over while repairs are done.

For these reasons, **ALEMLUBE LUBRICATION SYSTEM** can be an important part of the business plan to increase reliability, reduce labour costs and increase profitability.

ALEMLUBE IN ACTION - WASTE MANAGEMENT

Alemlube Lubrication Systems are designed to ensure that all conveyor grease points are automatically greased and that the labyrinths are kept topped up several times a day.

Bearing life can be greatly improved allowing maintenance resources to be redirected to other pressing tasks. Additionally, the automatic greasing system can be completely remotely monitored with the ability to detect blocked and stiff bearings, thus providing early warning of problem bearings and allowing corrective action to be taken.

Systems are designed using progressive dividers which constitute the only way to accurately monitor lubricant volumes to large numbers of grease points.

As a result of these systems, conveyors operate more reliably allowing record production to reach the stockpile.

The **ALEMLUBE LUBRICATION SYSTEM** is the ideal system for these vehicles - Pumping #2 grease to these large bearings ensures excellent bearing protection and a barrier to contamination.

The **ALEMLUBE LUBRICATION SYSTEM** is also capable of pumping the long distances often required, and can easily be designed to deliver large volumes to the large heavily loaded lifting and packing bearings, while also delivering much smaller volumes to chassis grease points.

Front, Side & Rear Loaders

Side lift (domestic) trucks and front lift (industrial) trucks have much more demanding lubrication requirements than bare truck chassis or most normal prime movers.

City based side lifters can perform thousands of lifts a day, rain hail or shine. Keeping these hard working pins and bushes full of grease and contamination free is critical.

Industrial front lifts have very large heavily loaded pins and bushes which must also be kept clean and lubricated frequently to ensure a long trouble free life.

Due to the heavy loads and high frequency lift operations, small bearing problems can quickly escalate into costly downtime. This is where the **ALEMLUBE LUBRICATION SYSTEM** can help to stop these issues from occurring.

ALEMLUBE IN ACTION - FIXED PLANT LUBRICATION SYSTEMS

Automatic lubrication systems can assist greatly in increasing plant reliability and reducing the amount of labour tied up in routine maintenance.

Studies show that over 60% of bearing failures are lubrication related – due to contamination or under lubrication. Alemlube can design systems for all types of industrial plants to keep labyrinth seals sealed and keep bearing topped up with the right amount of grease, thus eliminating the two major causes of bearing failure.

Bearing failures are greatly reduced allowing maintenance staff to get on with important planned maintenance rather than dealing with breakdowns.

Technology

Alemlube ILC-MAX pump for industrial application:

- High pressure operation with #2 greases
- Reservoir size up to 8kg stationary applications
- Available with integrated controller for self contained operation or without controller for operation by customer PLC
- A 240vac pump option is available if required
- DPX progressive dividers ensure the correct volume of lubricant is delivered to each point
- Pneumatic pump solutions are also available

ALEMLUBE IN ACTION - ALEMLUBE FIXED PLANT & CONVEYOR LUBRICATION SYSTEMS CASE STUDY

At one Queensland coal mine Alemlube was asked to design automatic greasing systems which would ensure that all conveyor grease points were automatically greased and that the labyrinths were kept topped up several times a day.

Fixed Plant & Conveyor Lubrication Solutions

It was thought that bearing life could be greatly improved and that maintenance resources could then be redirected to other pressing tasks. Additionally, the automatic greasing system was to be completely remotely monitored and be able to detect blocked bearings and stiff bearings – thus providing early warning of problem bearings and allowing corrective action on or before the next shutdown occurred. The systems were designed using progressive dividers which are the only way to accurately monitor lubricant volumes to large numbers of grease points.

All drives, drive pulleys, bend pulleys and GTUs are connected to the systems. In addition, counterweight pulleys and winches are also included. 20kg pneumatic drum pumps were chosen to fit in with maintenance operations. Drums are renewed easily by hand as required.

Great care was taken to exclude coal dust from the systems and to that end, all systems are housed in custom built stainless steel sheds which are internally pressurised by the pump exhaust, keeping all dust out.

The progressive divider circuits are designed to allow the systems to continue operating even when a bearing is blocked. The blockage is detected and an alarm is activated in the maintenance office.

Locating the blocked bearing is a simple procedure. As a result of these systems, the conveyors operate more reliably now than ever, allowing record production to reach the stockpile.

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