Central Lubrication Systems for mobile applications

Products - Accessories - Service
About us

The BIJUR DELIMON International Group includes brands known throughout the world: BIJUR, DELIMON, DENC0 Lubrication, FARVAL and LUBE SITE. In the USA Joseph Bijur led the development of chassis lubrication systems for the world-famous Packard brand in the 1920s and for the Chevrolets in 1934. In the early 1950s we turned our attentions to Europe, and by the start of the 21st century had become the world market leader in the field of lubrication systems for trams and long-distance trains.

Reliable automatic chassis lubrication was always a major part of the BIJUR DELIMON family inheritance.

Since its foundation over 140 years ago, BIJUR DELIMON International has become one of the leading manufacturers of central lubrication systems in the world, for industrial requirements and special applications.

Today we have facilities in nine main markets throughout the world for manufacturing, development, sales and logistics, with over 1000 highly-qualified and motivated employees, ready to provide solutions to your lubrication requirements. Our customers are engaged in international business, so our provision of service on 6 continents, coupled with our technical competence in the development of customer-specific solutions in the fields of commercial vehicles and construction site machinery, goods and passenger transport, rail lubrication systems, factory and mining equipment is of vital importance to them.

The development of innovative concepts using the latest 3D CAD/CAM technology, high-performance machining centres and continuous further training of our highly qualified employees, ensure that we maintain the capability to provide our customers with the best possible solution concepts for their specific applications.

Automatic centralised lubrication systems

For large mining excavators and opencast machinery, automatic centralised lubrication has been established for decades and is indispensible. But for small to medium-sized construction site machinery the advantages of reduced maintenance costs, minimised wear and increased operating availability is also becoming increasingly important. Working under tough conditions with continually changing operating duties is a situation which demands the use of appropriate lubrication systems. For more than 140 years BIJUR DELIMON has been designing and manufacturing centralised lubrication systems and components for use in all sectors of industry. Our customers value our competence as well as our high-quality products and their reliability.

BIJUR DELIMON products are solution concepts created by experts.

With the DYNAMIS and the DYNAMIS MAXX we have succeeded in creating pump systems for the most onerous working conditions. The sturdy powder-coated aluminium body and the zinc nickel plated attachment components can withstand the most hostile environmental conditions. The modular design permits individual configuration of automatic centralised lubrication systems to suit every type of machine. The configurations are numerous, and progressive dividers for up to 16 lubrication points can be flanged directly on to the pump. In this format, a DYNAMIS pump provides automatic and monitored lubrication systems for commercial vehicles, industrial trucks and for small and compact construction site machinery from one pump station. The modular design permits the use of both single line injector and progressive systems for the lubrication of up to 100 lubrication points.

Vehicle Applications

- Excavator
- Haul Truck
- Bulldozer
- Hammer/Breaker
- Log Loader
- Knuckle Boom Loader
Lubrication concepts for construction site machinery

The progressive system

Continuous lubrication

Progressive type dividers, either in solid block, segmented or modular design, are fitted to the discharge side of a pump. The distribution of the lubricant to the individual lubrication points are maintained as long as the pump delivers lubricant.

Simple monitoring and control

What happens if a lubrication point is blocked, or the backpressure becomes too high, or the pipe to a lubrication point is crushed? Progressive dividers, by design, can only continue to deliver lubricant and cycle if the supply line to the lubrication points, and the friction points themselves, are free of obstructions. The metering of lubricant in a progressive divider is performed by the shuttling of metering pistons, which take lubricant from the reservoir and deliver it in pre-set, fixed quantities to the lubrication points. If a piston does not complete its full stroke due to a downstream blockage, the lubricant cannot ‘progress’ to the following metering piston. The divider stops operating and so does the entire lubrication system. As an option, BIJUR DELIMON dividers can be fitted with a motion indicator pin that is attached to one of the metering pistons, and moves back and forth during a lubricant cycle, to provide visual indication of grease flow. By attaching a switch to interface with the indicator pin, the confirmation of flow, or none flow, can be monitored electrically. A defect in the system operation can be detected quickly. If electric monitoring is used, we can also count the motion indicator pin movements to precisely control the lubricant supply. This is achieved by switching off the pump when a pre-determined number of cycles have been completed in a given time period.

Block or segmented divider?

There are valid arguments in favour of each type. Whilst with a segmented and modular type divider the emphasis is on simplicity of configuration for different metered quantities, for the block divider freedom from leaks and cost efficiency are major considerations.

All BIJUR DELIMON dividers offer an equal degree of metering accuracy and reliability. The combination of segmented, modular and block dividers permits a design that is optimally matched to the requirements of a centralised lubrication system.

Typical progressive system, with primary and secondary dividers.
Lubrication concepts for construction site machinery

The single-line injector system

Cyclic lubrication

Injectors, usually fitted on manifolds as near to the lubrication points as practically possible, are mounted downstream from the pump. At pre-determined intervals, the pump is operated and lubricant is supplied to the injectors under pressure and hydraulically delivered to the lubrication points. When the cycle is complete and confirmed by means of a pressure switch in the main line, the pump is switched off and the line pressure relieved. The injector metering piston returns to its original position under spring pressure, automatically primed for the next pressure cycle.

A precisely metered quantity every time

Bijur Delimon CXL series injectors are supplied preconfigured with individual fixed metering settings. The specified metered quantity can be adjusted only by exchanging the metering caps. This removes the possibility of inappropriate adjustment of the metered quantity whilst the system is in service in your machine.

Simple and flexible lubrication

The single supply line can supply lubricant to many different distributor manifolds installed on the machine. The versatile expansion capability of the system is of particular interest. For example, extension of the system due to additional lubrication points can be simply connected to the existing lubrication system with no change to the overall system concept. When this system is provided with a Bijur Delimon pump of the DYNAMIS family, it pumps lubricant until the additional lubrication points have received the necessary lubricant.

Is productivity your preferred measurement index?

In contrast to progressive systems, single-line systems continue to operate even if a lubrication point is blocked or the pipe to a lubrication point is crushed. Only this lubrication point fails to receive lubricant - all other lubrication points continue to receive lubricant at every lubrication cycle.

Optical monitoring is mandatory for all Bijur Delimon CXL series injectors, and this reports the problem at the lubrication point. You can install electronic monitoring at injectors for critical lubrication points. This is a reliable system for maintaining the productivity of your machine.

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Vehicle Applications

» Landfill Compactor  » Concrete Mixer  » OTR Truck  » Delivery Truck  » Snow Plough  » Refuse Vehicle

Typical single-line system
DYNAMIS - pump systems

DYNAMIS - compact and powerful

- robust and powder-coated aluminium housing
- compact and modular design
- unique swash plate operated, force-controlled pump elements
- combined outlet delivery volume, 5.8 cm³/minute maximum
- integral electrical controller with data logger (option)
- extensive temperature range (-40°C to +75°C)
- ZnNi coating for the assembly parts
- individual configurable
- 2 and 4 litre reservoirs
- follower plate and stirrer options
- reservoir low level signal
- IP67 protection
- oils and greases up to and including NLGI 2 consistency
- integral pressure relief valve

Field of application
Small and compact construction machines, agricultural machines, commercial vehicles and off-road trucks; progressive systems with up to 50 lubrication points.

DYNAMIS Maxx – flexible in size and performance

- robust and powder-coated aluminium housing
- 1 to 3 push-pull operated pump elements
- combined delivery volume 24 cm³/minute maximum
- 4, 8, 12, 15 and 20 litre reservoirs
- follower plate and stirrer options
- integral electrical controller with data logger (option)
- extensive temperature range (-40°C to +75°C)
- ZnNi coating for the assembly parts
- individual configurable
- reservoir low level signal
- IP67 protection
- oils and greases up to and including NLGI 2 consistency
- integral pressure relief valves

Field of application
Construction machines with high lubricant requirement; large progressive and single line injector systems.
# DYNAMIS - pump systems

## Specification

### DYNAMIS

- **Operating pressure, max.**: 300 bar
- **Reservoir size**: 2 and 4 litre
- **Number of outlets, max.**: 1 combined or 2 separate
- **Delivery volume per outlet**: 1.3 or 2.9 cm³/min
- **Temperature range**: -40°C to +75°C
- **Lubricants**: Oil and greases up to including NLGI 2 consistency
- **Protection class**: IP67
- **Materials**: Pressure loaded parts: Steel; Housing: Aluminium; Reservoir and cover: Plastic
- **Number of outlets with flanged divider**: max. 16
- **System types**: Single-line injector, multi-line, progressive, air-oil, open gear lubrication
- **Power supply options**: 12 / 24 V DC or 110 to 240 V AC, 50 - 60 Hz
- **Current consumption**: max. 30 W
- **Drive**: compact DC motor with epicyclic gear, AC version with AC / DC converter and DC motor

### DYNAMIS Maxx

- **Operating pressure, max.**: 300 bar
- **Reservoir size**: 4, 8, 12, 15 and 20 litre
- **Number of outlets, max.**: 1 to 3, or combination
- **Delivery volume per outlet**: 2.9 / (4 / 8) cm³/min
- **Temperature range**: -40°C to +75°C
- **Lubricants**: Oil and greases up to including NLGI 2 consistency
- **Protection class**: IP67
- **Materials**: Pressure loaded parts: Steel; Housing: Aluminium; Reservoir and cover: Plastic
- **Number of outlets with flanged divider**: max. 16
- **System types**: Single-line injector, multi-line, progressive, air-oil, open gear lubrication
- **Power supply options**: 12 / 24 V DC or 110 to 240 V AC, 50 - 60 Hz
- **Current consumption**: max. 50 W
- **Drive**: compact DC motor with epicyclic gear, AC version with AC / DC converter and DC motor
- **Outlet configuration**: 1 to 3 pump elements, individual or combined, with separate or combined pressure relief valves to suit the requirements

## Function plates

![Single-line system](image)

![Progressive system](image)

## Products & Installation

- **pCo Controller**
- **PVB divider**
- **DYNAMIS pump**
- **M2500 divider**
- **ZP-A divider**
- **DYNAMIS Maxx**

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Central lubrication for machine tools applications
DYNAMIS - pump systems

Order overview for standard types

**Basic configuration**
Reservoir with follower plate or stirrer with low level switch. Filling connection fitting.

**Electrical connections**
Without controller: 1x plug DIN 43650, 3-pole and 1x plug M12x1, 4-pole
With internal controller: 1x plug DIN 43650, 3-pole and 1x plug M12x1, 8-pole and 1x cable gland

<table>
<thead>
<tr>
<th>Delivery volume</th>
<th>pCo controller</th>
<th>2 litre grease reservoir</th>
<th>4 litre grease reservoir</th>
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<td>cm³ / min</td>
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<table>
<thead>
<tr>
<th>Delivery volume</th>
<th>Divider outlets</th>
<th>Standard type with pCo controller, low level switch and assembled and monitored progressive divider</th>
</tr>
</thead>
<tbody>
<tr>
<td>cm³ / min</td>
<td>12 V</td>
<td>24 V</td>
</tr>
<tr>
<td>2.6</td>
<td>No</td>
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</tbody>
</table>

Other configurations as required.
## DYNAMIS - pump systems

### Order overview for standard types

**DYNAMIS Maxx**

### Basic configuration
Reservoir with follower plate or stirrer with low level switch. Filling connection fitting.

### Electrical connections
Without controller: 1x plug DIN 43650, 3-pole and 1x plug M12x1, 4-pole
With internal controller: 1x plug DIN 43650, 3-pole and 1x plug M12x1, 8-pole and 1x cable gland

<table>
<thead>
<tr>
<th>Delivery volume</th>
<th>pCo controller</th>
<th>Standard type with one outlet and integrated low level switch</th>
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<th>12 litre grease reservoir</th>
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<td>12 V</td>
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<td>DYMXMLA555R10407</td>
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<th>Delivery volume</th>
<th>Divider outlets</th>
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</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>8 litre grease reservoir</td>
<td>12 V</td>
</tr>
<tr>
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<td>5.8</td>
<td>6</td>
<td>DYMXGA540Q10407</td>
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<td>DYMXHA555Q10407</td>
</tr>
<tr>
<td></td>
<td>10</td>
<td>DYMXIA555Q10407</td>
</tr>
</tbody>
</table>

*Other configurations as required.*

### Vehicle Applications

- Apron vehicle
- Mining
- Belt conveyor
- Drill equipment
- Straddle carrier
- Frac truck

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Central lubrication for machine tools applications
Dividers & Injectors

BIJUR DELIMON offers a comprehensive range of dividers and injectors. The progressive system utilises dividers of the block, segmented or modular type with a number of outputs, or the single line system can employ a multiplicity of single-line injectors with 0.05 to 1.6 cm³ delivery.

The extensive options offer an optimum solution to every lubrication requirement. Although the systems are different, the dividers, injectors and manifolds are all manufactured from the same high quality carbon steel; DIN 50979 with Fe/ZnNi8 plating. This gives our components corrosion protection to the requirements of class C5.

Progressive divider

PVB block divider

- Progressive divider in block design
- 6 to 20 outlets
- Carbon steel with ZnNi coating
- suitable for grease and oil
- 0.17 cm³ metering volume per outlet/cycle
- High metering accuracy
- Operating pressure max. 300 bar
- Flexible to set up
- Engraved divider coding
- Motion indicator (option)
- Electrical monitoring (option)

Thanks to the combination of options, with the ability to increase the lubricant output at selected outlets to suit the requirements by cross-porting and singling, these dividers can be easily adapted to the respective applications. To assist our valued customers, the BIJUR DELIMON PVB distributors are provided with engraved coding for unmistakable identification of the distributor configuration.
Dividers & Injectors

Progressive divider

ZP-A / ZP-B segmented divider design

- Segmented design progressive divider
- 6 to 24 outlets
- Carbon steel with ZnNi coating
- Suitable for grease and oil
- Metering element outputs 0.1; 0.2; 0.3 (ZP-A) 0.5; 1.2; 2.0 (ZP-B) cm³ per stroke/outlet
- Segment sealing gaskets (no O-rings)
- High metering accuracy
- Operating pressure max. 160 bar (ZP-A); 300 bar (ZP-B)
- Multiple outlet options and variations
- Motion indicator (option)
- Electrical monitoring (option)

M2500 modular valve divider

- Modular design progressive divider
- Comprising end plates, base sections and working modules
- Valve divider with 3 to 10 modules
- Wide range of accessories
- Standard thread connections - SAE, NPSF or BSPP
- Integral zonal solenoid valves for area control (option)
- Operating pressure max. 300 bar with oil, and 400 bar with grease
- Metering volume 0.08 to 1.31 cm³
- Carbon steel with ZnNi coating
- Visual or electrical monitoring (option)
- Outlets easy to combine

Industrial Applications

- RailJet spray nozzle
- Pump station
- Spray lubrication
- BS-B pump station
- pCa Controller
- Customised

Central lubrication for machine tools applications
Dividers & Injectors

Single-line injectors

Single-line injectors are used whenever multiple lubrication points require a precise, individually metered quantity. Each injector is set for a defined metered quantity. Single line systems are simple to install and can be extended as required.

CXL single-line injector

• Individual pre-set output 0.05 to 0.4 cm³/stroke
• Injector manifolds for 2 to 12 injectors
• suitable for greases up to and including NLGI 2
• VITON® seals
• Direct injection
• Carbon steel with ZnNi coating
• Visual motion indicator
• Operating pressure: 82 bar minimum / 248 bar maximum

FLM-1 single-line injector

• Individual adjustable output 0.13 to 1.6 cm³/stroke
• Injector manifolds for 1 to 8 injectors
• suitable for greases up to and including NLGI 2
• VITON® seals
• Direct injection
• Separate connection to prime the lubrication line
• Carbon steel with ZnNi coating
• Visual motion indicator
• Operating pressure: 128 bar minimum / 241 bar maximum
Accessories

Filling pumps
To maintain reliable operation of your centralised lubrication system, special care must be taken to fill it with clean lubricant. Contamination in the lubricant can cause damage to bearings and/or total failure of your lubrication system. To ensure cleanliness when refilling the reservoirs of your DYNAMIS central lubrication pump, BIJUR DELIMON offers a range of filling pumps to suit the filling port of the DYNAMIS pump range.

Battery operated grease gun

- Two high performance NiCad batteries
- Boost charge within one hour
- Up to 7 grease cartridges dispensed from one charge
- Filling with 400 g standard cartridges or from bulk container
- Flexible high pressure hose with spiral protection
- Ergonomic handle
- High performance four-jaw clutch coupling
- Motor with high pressure shut-off safety feature
- Vent valve for bleeding

Filling cylinder
Using a commercially-available 400 g cartridge, connect the filling cylinder to the filling port of the lubrication pump and press the filling cylinder piston rod. The grease is forced from the cartridge into the lubrication pump reservoir. The piston rod is now pulled back, and the empty cartridge removed from the filling cylinder. This procedure is repeated until the system has been filled with the required quantity of grease.

Material: Chromated steel

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Central lubrication for machine tools applications
**Manual operated barrel pump**

Available in stationary or mobile versions, for the filling of the reservoir of your DYNAMIS central lubrication pump quickly and directly from a 25 kg or 50 kg drum.

**Scope of delivery:**
- Filling pump
- Screw cap with adjustable screws at the side
- Follower pump
- 2 m PVC hose with coupling
- Carriage (only mobile version)

**Cap diameter:**
- 25 kg: inner dia. 300 - 335 mm
- 50 kg: inner dia. 355 - 387 mm

**Hoses & Connections**

To complete your lubrication system, BIJUR DELIMON offers a wide range of high-quality pipe line fittings, tubing, hoses and fastening components. Our range of hose can be delivered by the length or in rolls, if required pre-filled with grease to class NLGI 2. Naturally we also supply pre-manufactured tubes and hoses, custom made for your machine for ease of installation.

**High-pressure hose NW 4 and NW 6, 600 to 800 bar**

Extreme pressure-resistance, combined with flexibility, characterise the high-pressure hose with a selection of internal bore sizes. The hose consists of an inner tube of polyamide 6 (PA6), surrounded by polyester braiding within a polyurethane external sheath. The high-pressure hose is used for connections between the pump and the primary divider, the primary divider and secondary dividers and then in tough, rugged environments also to the lubrication points. The connection fitting consists of a re-usable sleeve nut and stand-pipe, enabling on-site configuration of each line by the technician. The hose is either available by the metre or as a roll up to 100 metres in length. If pre-filled hose is preferred with NLGI 2 grease the maximum roll length is 50 metres for 4 mm bore and 100 metres for 6 mm bore.
Accessories

PA-12HL Plastic tube 6 x 1.5

Outstanding weather and pressure resistance (89 bar), together with heat, light and UV stabilisation, qualify our POLYAMIDE hose as an ideal material for a lubricant line. Easy to cut and install, it is ideal for use in lubrication systems from the progressive dividers to the lubrication points. The plastic tubes PA-12HL can be fitted without support sleeves, directly into the compression type fittings or our high-pressure threaded unions. The tube is available by the metre, or as a roll up to 100 metre. Plastic tubes pre-filled with NLGI 2 grease are available as rolls up to a maximum of 50 metre.

Quick-connect fittings

Our high-pressure quick couplings are equally suitable for our plastic tube PA-12HL or high-pressure 4 mm hose with pipe spigots and with a claw groove. Our quick couplings ensure a long-term reliable connection between the lubrication points and your DYNAMIS lubrication system. The installation work for a central lubrication system has been reduced to a minimum. Quick couplings have proven themselves over many years in hundreds of installations. You can obtain our quick couplings in all usual thread sizes, in straight, angled and swivel fittings.

Material: Nickel coating brass
Temperature range: -20°C to + 70°C
Pressure range: max. 80 bar
Tube diameter: 4 mm or 6 mm
Installation service

You can rely on us

As one of the world’s leading manufacturers of automatic lubrication systems, we will never disappoint you when designing and supplying the optimum technical and commercial lubrication system solution, to suit the requirements of your application.

BIJUR DELIMON will provide you with professional advice and support from our 7 production sites, 12 sales offices and 150 distributors around the world, with over 1000 employees in China, Germany, India, Ireland, Spain, Great Britain and America.

Our highly-qualified and motivated employees are available globally for installation, service, maintenance, repairs and training. On-going training ensures that all of our employees are up to date and familiar with the latest technology. Of course our aim is that our lubrication systems will maintain the long-term operating availability of your machine.

BIJUR DELIMON has ‘Global’ presence, ensuring that in the unlikely event of a failure we are on your doorstep to provide service without delay, and deliver urgently required spare parts very quickly.

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Engineering Service

- Complete application design
- Pre-configured installation kits, custom designed for your machine
- Customised OEM systems and prototypes
- Special product development
- System engineering
- DFMEA and PFMEA analysis
- 2D and 3D CAD development

Installation service

We offer installation, maintenance, service and repairs for all Bijur Delimon lubrication systems fitted to vehicles and machines for the following markets:

- Agriculture
- Construction
- Mining and quarry
- Forestry equipment
- Dockside/ Harbour
- Commercial vehicles and semi-trailers
- Commercial trucks
- etc.
Since 1872 an innovator in lubrication technology

BIJUR DELIMON International has production facilities throughout the world, and these are certified to ISO 9001:2008 and ISO 14000. You can be confident that your centralised lubrication system satisfies the highest industrial quality standards. We are committed to quality and customer service!