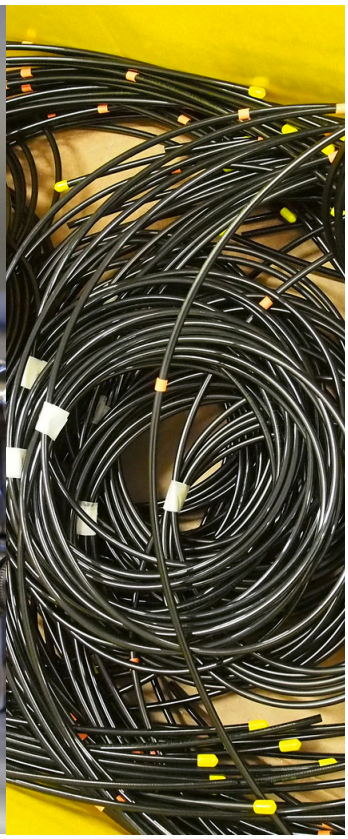
CIAPONI
LUBRIFICAZIONE CENTRALIZZATA

Centralized lubrication systems for industrial vehicles, machineries and equipment





PRODUCTS & SERVICES

THANK YOU EVERYONE

Dear Clients,

Since 1969, we have been a trusted name in the centralized lubrication sector, bringing experience, expertise, and passion to every product we create.

Our commitment to quality, attention to detail, and constant innovation allows us to deliver solutions that are reliable, efficient, and built to last.

Every product we offer is rigorously Made in Italy, the result of a carefully controlled supply chain and know-how that blends tradition with cutting-edge technology. We take pride in providing tools that meet the highest standards, designed for those who value performance, safety, and durability.

We sincerely thank you for the trust you continue to place in us and for accompanying us on a journey of growth and innovation that has spanned over fifty years.

Lido Ciaponi
Chief Executive Officer

FOR ALL APPLICATIONS

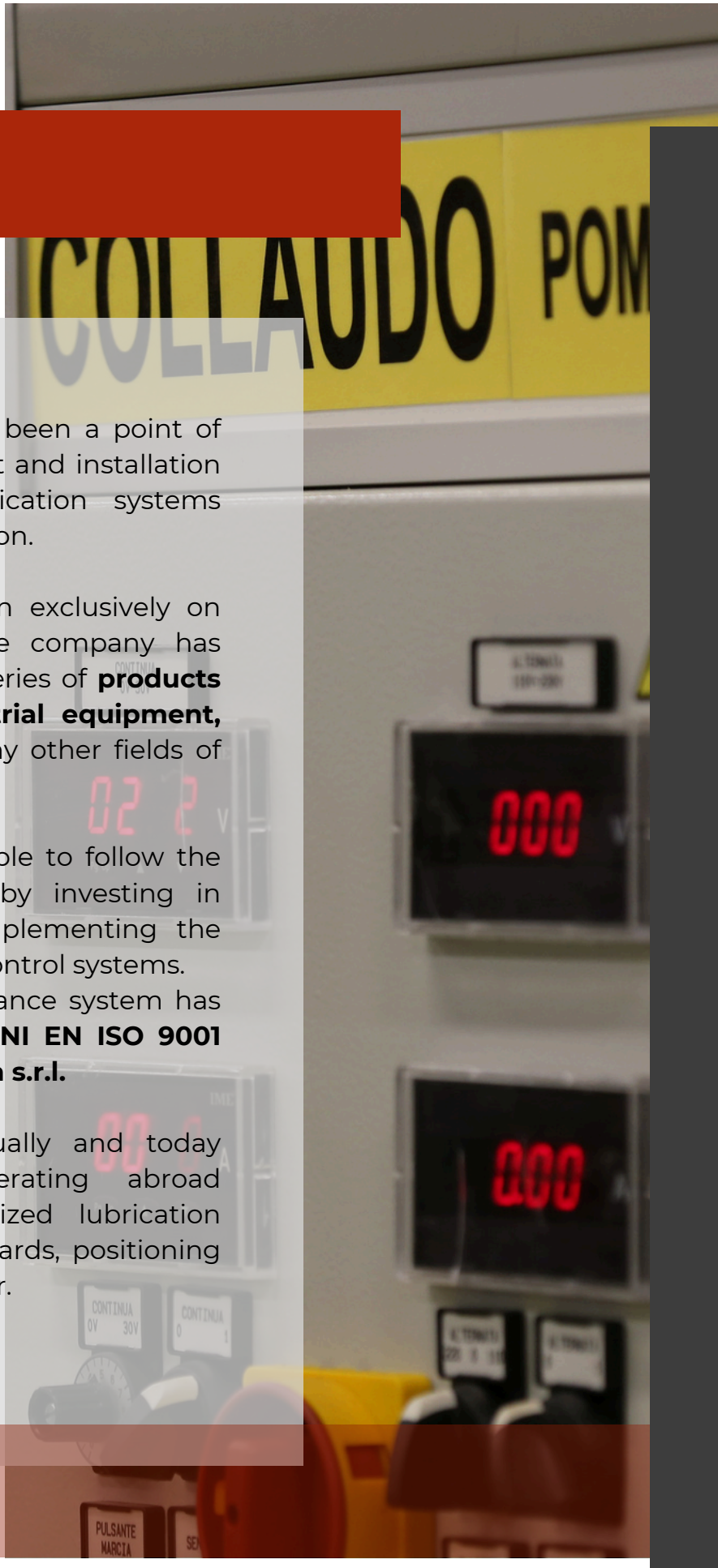
- Company
- Centralized Lubrication

- Pumps
- Dividers
- Fittings
- Accessories
- Hoses & Tubes
- Timers
- PLC
- All-round Service

- Contacts

COMPANY

SINCE 1969



For over 50 years, **Ciaponi S.r.l.** has been a point of reference in the design, development and installation of innovative and advanced lubrication systems suitable for different fields of application.

After initially focusing its production exclusively on automotive lubrication systems, the company has expanded its skills and designed a series of **products for installation on vehicles, industrial equipment,** machinery, special systems and many other fields of application.

Over time, **Ciaponi S.r.l.** has been able to follow the flow of innovation in the sector by investing in research and development and implementing the best design, production and quality control systems.
In 2001, the company's quality assurance system has been certified compliant with the **UNI EN ISO 9001 standard by Det Norske Veritas Italia s.r.l.**

Ciaponi S.r.l. has expanded gradually and today boasts a global presence, operating abroad successfully and providing centralized lubrication systems of the highest quality standards, positioning itself as a qualified and reliable partner.

CENTRALIZED LUBRICATION

CENTRALISED LUBRICATION

The solution to cost reduction

Our c**entralised lubrication** systems provide an effective and modern solution for the maintenance of industrial machinery.

Designed to ensure precise, continuous, and automated lubrication, they significantly reduce operating and maintenance costs while delivering higher production efficiency.

With a centralised system, **machine downtime caused by manual greasing is eliminated**, and the service life of critical components — such as bearings, joints, guides, and pins — is extended.

The system automatically dispenses the right amount of lubricant at the right time, avoiding both over-lubrication and under-lubrication.

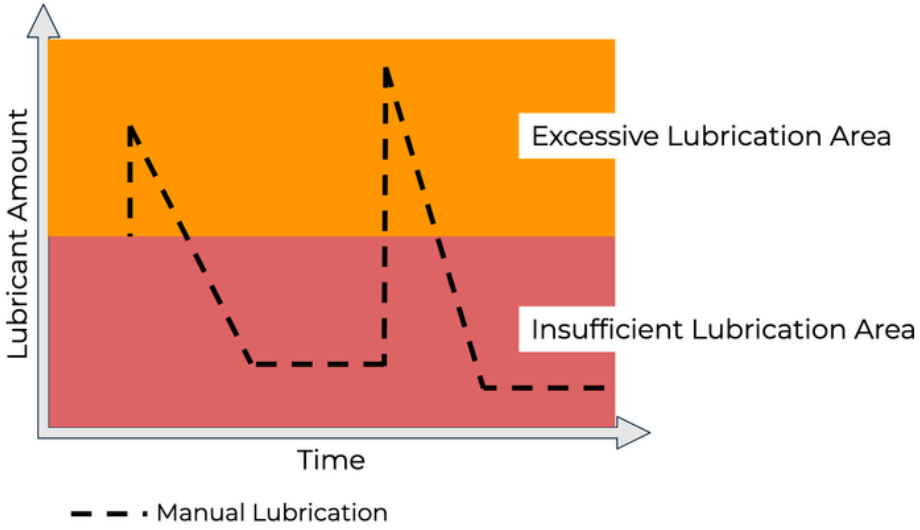
Another major advantage is the ability to **reach even distant or hard-to-access points**, ensuring complete and uniform lubrication coverage.
This leads to greater reliability, fewer breakdowns, and lower extraordinary maintenance costs.
According to a study by a leading machinery manufacturer, approximately 50% of mechanical failures are due to insufficient or irregular lubrication.

By adopting a centralised lubrication system, companies can prevent premature wear, extend equipment lifespan, and optimize performance over time.

MAIN CAUSES OF MACHINE DOWNTIME

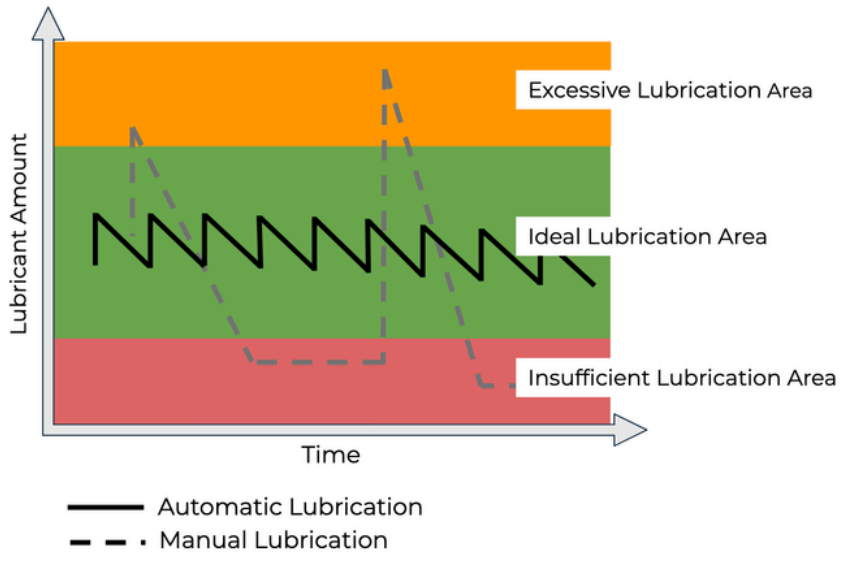
WITHOUT CIAPONI CENTRALISED LUBRICATION

19.60%	2.80%	9.60%	17.70%	34.40%	18.60%
WEAR	HANDLING	OVERLOAD	ERROR OF FITTING	INSUFFICIENT LUBRICATION	ACCIDENTAL DAMAGES



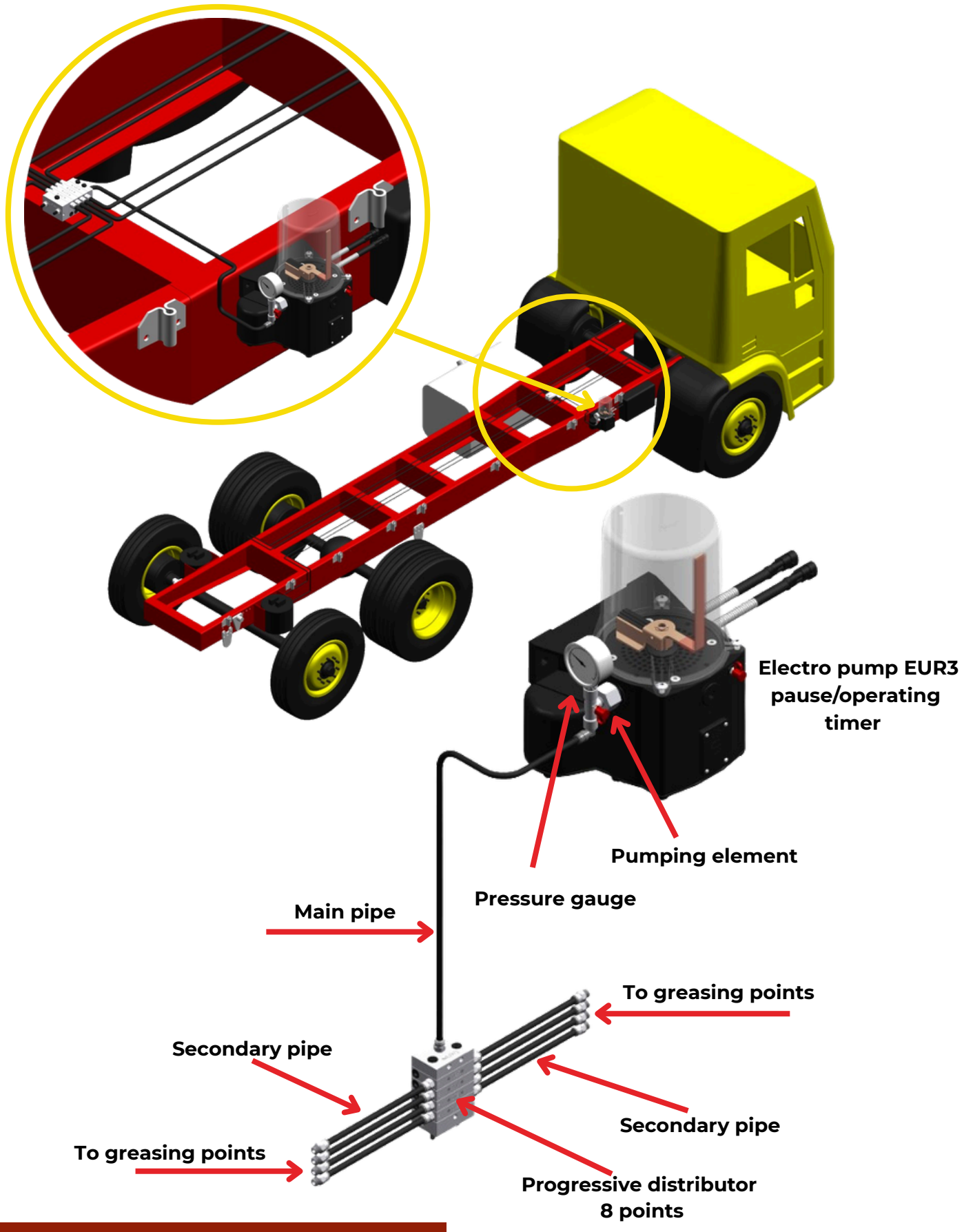
WITH CIAPONI CENTRALISED LUBRICATION

4%	1%	3.50%	17.70%	0%	18.60%
WEAR	HANDLING	OVERLOAD	ERROR OF FITTING	INSUFFICIENT LUBRICATION	ACCIDENTAL DAMAGES



PROGRESSIVE SYSTEM

Diagram of a system mounted on a three-axle truck



PUMPS

PUMP EUR 1

Pneumatic drive | Efficient lubrication

- Operating temperature: from – 20°C to + 80°C
- Number of outlets: 1
- Pumping system: air-driven piston Ø 29 mm
- Main pipe connection: threaded M11x1
- Reservoir capacity: 1.8 liters with minimum and maximum level indications
- Lubricant: oil and grease up to NLGI consistency class 0
- Maximum flow rate for single outlet: 30 cm^3/cycle
- Solenoid valve working pressure: 6-10 bar
- Grease outlet pressure: 65-115 bar

This pump, **suitable for every vehicle and machinery equipped with a pneumatic system**, delivers a maximum of 30 cm^3 of grease per pumping cycle. It distributes it linearly, using exactly the required amount to avoid losses.

It does not require any calibration and can feed a number of dispensers ranging from 1 to 100. The low level of grease in the tank, or any system failures, are signalled by a bright yellow warning light on the timer.

A technical peculiarity that distinguishes the EUR 1 pump from any other lubrication pump existing on the market is its **"interchangeable" grease reservoir**: once the grease has run out, the system can be refilled by simply replacing the tank, or filling it via the grease fitting located at the front of the pump.

This pump is also equipped with a timer which, in addition to programming the greasing cycles, allows to view the work carried out. Finally, it is equipped with a button for manually starting the extra lubrication cycle, and allows to set the pause time between one cycle and another according to your needs.

PUMP EUR 3

Progressive system | Electric drive & reliable

- Operating temperature: from – 30°C to + 80°C
- Number of outlets: 1, 2 or 3
- Pumping system: Ø 6 mm piston driven by eccentric
- Main pipe connection: quick coupling for Ø 6 mm pipe
- Reservoir capacity: 1, 2, 4, 8 litres
- Lubricant: grease up to NLGI consistency class 2
- Air bubble elimination system: with rotating cylinder and glass wiper blade
- Control system: none, with timer or with timer and sensor
- Minimum level indicator: optional
- Protection class: IP65 or IP67

The EUR 3 model electric pump is a universal **pump suitable for all vehicles and machinery.** It is equipped with pistons operated by an eccentric system, and works with grease for a maximum of three pumping elements connected to the system.

The multiple outlet pump group operates electrically with voltages from 12-24V / 110-220V and can generate lubricant outlet pressures up to 350 bar. The pump casing is a single piece of plastic, particularly resistant to mechanical stress. The tank is made of transparent polycarbonate.

A shaped roller and glass squeegee system allows you to eliminate the presence of air bubbles in the lubricant contained in the tank, ensuring correct operation even at low temperatures.

This electric pump is **available in various versions**, which are distinguished by power supply voltage (12V or 24V DC | 110V or 220V AC), reservoir capacity (1, 2, 4, 8 litres), control system with or without timer programming, end-of-cycle sensor and minimum grease level indicator in the tank.

EUR 3 OIL VERSION

Progressive system for oil applications

- Operating temperature: from – 30°C to + 80°C
- Number of outlets: 1, 2 or 3
- Pumping system: Ø 6 mm piston driven by eccentric
- Main pipe connection: quick coupling for Ø 6 mm pipe
- Reservoir capacity: 2, 4, 8 litres
- Lubricant: oil 50-1000 cSt 40°C
- Air bubble elimination system: with rotating cylinder and glass wiper blade
- Control system: none, with timer or with timer and sensor
- Minimum level indicator: optional
- Protection class: IP65 or IP67

The EUR 3 electric pump is a universal **pump suitable for all vehicles and machinery.** It is equipped with pistons operated by an eccentric system, and works with oil for a maximum of three pumping elements connected to the system.

The multiple outlet pump group operates electrically with voltages from 12-24V / 110-220V and can generate lubricant outlet pressures up to 350 bar. The pump casing is a single piece of plastic, particularly resistant to mechanical stress. The tank is made of transparent polycarbonate.

This electric pump is **available in various versions**, which are distinguished by power supply voltage (12V or 24V DC | 110V or 220V AC), reservoir capacity (2, 4, 8 litres), control system with or without timer programming, end-of-cycle sensor and minimum grease level indicator in the tank.

EUR 3 ARCTIC VERSION

Progressive system for very low temperatures

- Operating temperature: from – 40°C to + 80°C
- Number of outlets: 1, 2 or 3
- Pumping system: Ø 6 mm piston driven by eccentric
- Main pipe connection: quick coupling for Ø 6 mm pipe
- Reservoir capacity: 1, 2, 4, 8 litres
- Lubricant: grease up to NLGI consistency class 2 and oil 50-1000 cSt 40°C
- Air bubble elimination system: with rotating cylinder and glass wiper blade
- Control system: none, with timer or with timer and sensor
- Minimum level indicator: optional
- Protection class: IP65 or IP67

The EUR 3 ARCTIC model is also a universal pump suitable for all vehicles and machinery. It has been developed to ensure **correct operations even at very low temperatures.**

A 24W heater mounted on the motor of the pump, automatically managed by a temperature sensor located on the board, permits the pump to perform in all extreme areas of the globe.

The EUR 3 ARCTIC model is **very appreciated in the mining sector** and in all harsh territories like Canada, Finland, Norway, Sweden, Kazakhstan and Russia.

EUR 3 IRON VERSION

With stainless steel reservoir protection

- Operating temperature: from – 30°C to + 80°C
- Number of outlets: 1, 2 or 3
- Pumping system: Ø 6 mm piston driven by eccentric
- Main pipe connection: quick coupling for Ø 6 mm pipe
- Reservoir capacity: 4 or 8 litres
- Lubricant: grease up to NLGI #2
- Air bubble elimination system: with rotating cylinder and glass wiper blade
- Control system: none, with timer or with timer and sensor
- Minimum level indicator: optional
- Protection class: IP65 or IP67

The **EUR 3 IRON** is the evolution of the **EUR3** range, designed to offer **greater strength and reliability** even under the toughest operating conditions.

It is a **universal pump** suitable for all types of vehicles and industrial machinery, ensuring consistent and safe performance over time.

Its reinforced stainless steel reservoir provides superior protection against impacts and rebounds from solid debris, preventing damage and guaranteeing continuous operation even in extreme environments.

Highly appreciated in the **mining, construction, and demolition sectors**, the **EUR 3 IRON** is ideal for applications involving **hydraulic hammers**, where stone and debris projection can easily damage traditional tanks.

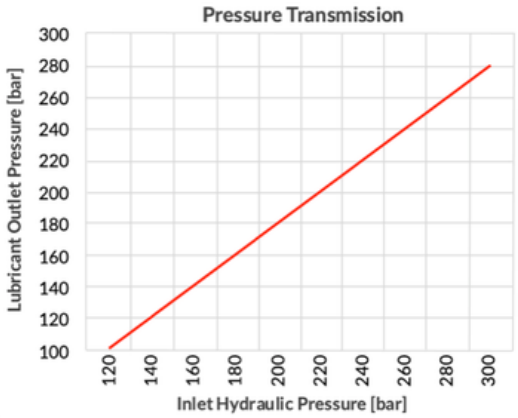
Why Choose EUR 3 IRON

- Enhanced evolution of the **EUR3** range
- **Reinforced stainless steel reservoir** with level indicators
- **High resistance to shocks and vibrations**
- **Universal compatibility** with centralised lubrication systems
- **Long-lasting reliability** in demanding environments

PUMP MODEL H

Single-shot for hydraulic auxiliary equipment

- Operating temperature: from – 20°C to + 80°C
- Pumping system: One interchangeable piston
- Range: 0.16 | 0.63 cm3/stroke
- Operating pressure: See diagram
- Drive fluid: Hydraulic oil
- Hydraulic inlet connection: G 1/4"
- Hydraulic pressure: 100 | 300 bars
- Lubricant outlet connection: G 1/4"
- Cartridge capacity: 400gr
- Lubricant: Grease NLGI #000 | #2
- Net weight: 1.7kg



The MODEL H single-shot hydraulic grease pump is a compact and robust pump. It can be **used alone or in combination** with progressive dosers.

It has been designed to dispense grease up to NLGI Class 2 density in various flow rates. As a reservoir, **it uses Shuttle-type grease cartridges**, easily replaceable thanks to the reliable screw system and sturdy housing.

To properly work, the MODEL H hydraulic Pump must be connected to the hydraulic circuit of the machine on which it is set. The connection takes place through the oil inlet, with supply pressures between 100 and 250 bar.

Once the hydraulic system of the machinery has been activated, a piston inside the pump enables a grease pumping element, which delivers the quantity of lubricant predetermined by the size of the pumping element itself.

The pumping element is available in the following sizes: H5 - H6 - H8 - H10.

The hydraulic Pump Model H single-shot requires an intermittent supply pressure to work.

PUMP K

Compact progressive lubrication system

- Operating temperature: from – 20°C to + 80°C
- Number of outlets: 1, 2 or 3
- Pumping system: Ø 6 mm piston driven by eccentric
- Main pipe connection: quick coupling for Ø 6 mm pipe
- Reservoir capacity: 1,2 litres
- Lubricant: grease up to NLGI #2 consistency class
- Air bubble elimination system: with follower plate spring
- Control system: none, with timer or with timer and sensor

The MODEL K electric pump is a piston pump driven by an eccentric system designed to operate with grease, with a maximum of three pumping elements connected to the centralized lubrication system. Each pumping element can be installed on one of the four available outlets.

One outlet is always dedicated to the cap with the grease nipple for filling the tank. Extremely compact, the pump is made of materials resistant to mechanical stress and corrosion from atmospheric agents.
The tank is in extruded transparent polycarbonate and filled using a grease nipple installed on the cap of one of the unused pump outlets.

Adhesive bands applied to the outside of the tank allow to easily identify the minimum and maximum levels.
The **reservoir capacity is approximately 1.2 litres**. A spring-loaded grease presser system keeps the lubricant compact, thus allowing correct operation in all working conditions. The electric gear-motor, of the axial type with planetary gearbox, is powered by low voltage direct current, and can be operated by the user directly or by programming the control timer.

The MODEL K electric pump comes in versions powered by 12 | 24 V DC with a control system with or without programming timer.
Electrical connections are made through wired systems.

PUMP CFM

Powerful lubrication for mining & construction

- Operating temperature: from – 40°C to + 65°C
- Specification: 18kg | 27kg | 41Kg | 54kg | 180kg
- Motor Operating Voltage: 24DC
- Motor speed: 1500RPM
- Reduction ratio: 8.1 | 20:1 | 40:1
- Deplacement of each cycle: 1.8cc
- Grease outlet thread: 1/4NPTF inner thread (pump tube) - 3/4NPTF inner thread (lubrication pump)
- Applicable grease: Up to NLGI #2
- Protection class: IP65

The MODEL CFM electric lubrication pump is controlled by a DC motor.

Its metering quantity is linearly related to the motor speed, making it suitable for demanding and variable working conditions.

Driven by a brushless DC motor and used in conjunction with a control unit, the lubrication pump is **designed for single-line centralized lubrication systems**.

When lubricant should be delivered to lubrication parts, the motor and solenoid valve are energized and the pump begins to work. After the injector completes its work and the required system pressure is built up, the pressure switch transmits the signal to the control unit, which cuts off the power supply of the motor and the solenoid valve, and the whole system relieves pressure and enters the next lubrication cycle.

This pump is versatile – as a centralized lubrication pump for progressive systems.

The CFM pump is a powerful lubrication pump **especially developed for the Mining field and heavy Construction machinery.**

BATTERY PUMP

High performance cordless grease gun

- Maximum pressure: 10000 psi
- Maximum flow rate: 280 g/ min
- Speed settings: 1 - 5
- Flexible hose lengths: 76 cm
- Grease capacity: 410ml Cartridge / 455g bulk
- Max grease viscosity: Up to NLGI 2
- Weight (with battery): 4.2kg
- Weight (without battery fitted): 3.5kg

BATTERY PACK

- Battery Call type: Lithium-ion
- Battery Voltage: 20V d.c.
- Battery Weight (KWT-003-25): 0.6 Kg

SELF-LOCKING HEAD

2x4 Ah
POWERFUL BATTERIES

The **CORDLESS GREASE GUN - BATTERY PUMP** powers through clogged fittings with a motor that delivers 10,000 PSI max.

This tool is ideal for high-flow applications, with the pump capable of dispensing one full cartridge in 90 seconds.

Regulate grease flow with the variable speed control and access hard to reach grease fittings with its flexible 76 cm hose.

Batteries and charger are included.

PUMP FOR BUCKETS

Electric grease pump for buckets 15-20 Kg

- Type: Piston pump
- Delivery pressure: 250 bar max
- Installation: Vertical
- Pump drive: DC deceleration monitor
- Voltage: 24 VDC
- Motor: 500 W
- Delivery rate:~1.2L/min
- Protection class: IP54
- Lubricant Grease and Oil: NLGI #0 to #2
  Oil 40mm2 (CST)
- Operating temperature: -30°C | +70°C
- Weight:~12.5 kg

The electric grease PUMP FOR BUCKETS utilizes the rotation of a DC motor to drive the piston pump to produce high pressure and discharge the lubricant.

It features high reliability, maximum working pressure, convenient usage, outperforming production efficiency, low labour intensity, and outstanding compatibility with high viscosity lubricant, such as lithium-based grease, calcium-based grease, etc.

It is suitable to lubricate centralized lubrication system applied by automobiles, tractors, and other machineries. It is recommended for harsh environment with low temperatures especially in the mine sector.

The pump is able to deliver greases up to NLGI #3

PUMP M

Manual greasing pump

- Operating temperature: from – 10°C to + 80°C
- Specification: 800gr.
- Operating pressure: 200bar
- Flow rate: with lubricator A M10x1 UNI 7663
- Applicable grease: Up to NLGI #2
- Protection class: IP65

The MODEL M is a manual pump, is designed for industrial machinery and equipment with a compact and sturdy design. It has very few moving parts and is therefore **very user-friendly.**

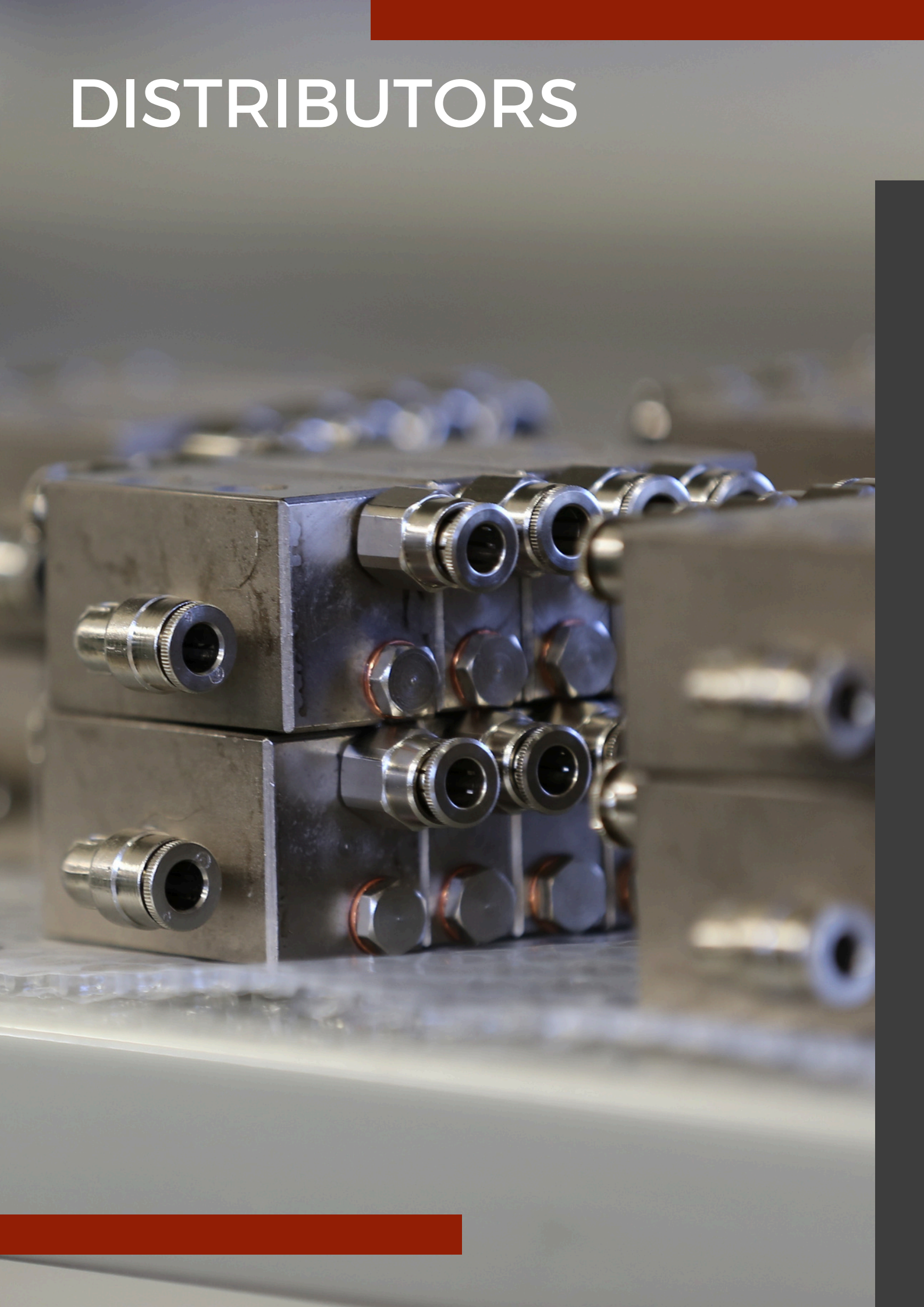
This pump has been **designed for use in progressive system**. The lubricant is pumped into the main line by actuating the pump and fed to the connected progressive distributor.

The lubricant is distributed over the number of outlets of the distributor and then delivered to the lubrication points or fed to another downstream progressive distributor, divided there and dispensed to the connected lubrication points.

Easy to install and ready for use since pumps are supplied with all necessary items, it can even replace our EUR3 electric pump.

The reservoir is manufactured from transparent polycarbonate to allow user easily check the level of grease. The volume of the reservoir is 0.8 liter.

DISTRIBUTORS



CK ELEMENTS

Progressive dividers for grease and oil operations

- Number of dosing elements that can be coupled: from 3 to 10
- Operating temperature: from – 30°C to +100°C
- Operating pressure: min 10 bar max 300 bar
- Max number of cycles per minute: 300
- Doser CK flow rate per cycle: 25, 45, 75, 105 and 140 mm^3
- Inlet connection: M10x1 thread
- Output connection: M10x1 thread
- Electrical cycle control (optional): by sensor

The CK elements are progressive modular volumetric dividers. The body is made of steel inside which small, hardened steel pistons deliver the grease flow rate between the various outlets. **Modules are sealed together by highly resistant O-Ring gaskets.**

The progressive dividers can be supplied already assembled or to be assembled. The number of dosing elements that make up a distributor block varies from a minimum of 3 to a maximum of 10 modules.

CK modular volumetric dividers are available in different versions: 25 | 45 | 75 | 105 | 140 mm^3 per cycle.

CX ELEMENTS

Progressive dividers for grease and oil operations

- Number of dosing elements that can be coupled: from 3 to 10
- Operating temperature: from – 30°C to +100°C
- Operating pressure: min 10 bar max 300 bar
- Max number of cycles per minute: 300
- Doser CX flow rate per cycle: 0.05 | 0.10 | 0.25 cm^3
- Inlet connection: M10x1 thread
- Output connection: M10x1 thread
- Electrical cycle control (optional): by sensor

The CX elements are **progressive modular volumetric dividers**. The body is made of steel inside which small, hardened steel pistons deliver the grease flow rate between the various outlets. **Modules are sealed together by highly resistant O-Ring gaskets.**

The progressive dividers **can be supplied already assembled or to be assembled**. The number of dosing elements that make up a distributor block varies from a minimum of 3 to a maximum of 10 modules.

CX modular volumetric dividers are instead available in versions: 0.05 | 0.10 and 0.25 cm^3 versions.

MONOBLOCKS

SSV series for grease and oil operations

SSV type progressive distributor is an integral block structure with high oil pressure, strong shock resistance, general dust resistance and corrosion resistance, **suitable for various harsh environmental conditions.** The number of oil outlets of SSV type distributors is generally between 6 and 20, and the displacement of each outlet is 0.20ml/cycle.

The progressive SSV technology allows the movement of only one piston at a time. The movement of this piston causes the movement of another piston and so on. The lubricant is introduced into the block and directed to the first piston, causing it to move sideways, discharging an already metered amount of lubricant.

Each oil outlet joint features a one-way valve, which can effectively prevent oil return.

Model No	Discherge per outlet	Max Working pressure	Inlet Hose dia/Thread	Outlet Hose dia	L (mm)	Max. differential pressure between 2 outlets	Install hole distance (mm)	Working Temperature	Grease Lubrication
SSV6	Standard Flow 0.20ml/cyc	30Mpa	ϕ6-ϕ8 (G1/8)	ϕ6 (M10*1)	60	7Mpa	20	From -40˚C to 80˚C	NLGI #000, #00, #1, #2 Oil ISO VG68 to 1500
SSV8					75				
SSV10					90				
SSV12					105				
SSV14					120				
SSV16					135				
SSV18					150				
SSV20					165				

SINGLE-LINE SYSTEM

CLS series for grease and oil operations

The single-line system suits the automated lubrication of large equipment. It is reliable even in harsh conditions and climates. The injectors measure the lubricant and are individually adjustable to meet the requirements of each lubrication point. This system operates at high pressure of up to 240 bar and is also suitable for high-viscosity lubricants.

Features:

- Adjustable lubricant outlet for injector
- Visual monitoring of each injector
- Injectors also in stainless steel
- High pressure lubricant supply
- Easy to set up and install
- The system can be easily extended

CLS-1 and CLS-11 injectors

These injectors, with a maximum pressure of 413 bar, are designed for the automatic grease lubrication of large machinery and equipment that require large quantities of lubricant. Each injector features an external, easily accessible device, which allows you to adjust the quantity of lubricant.

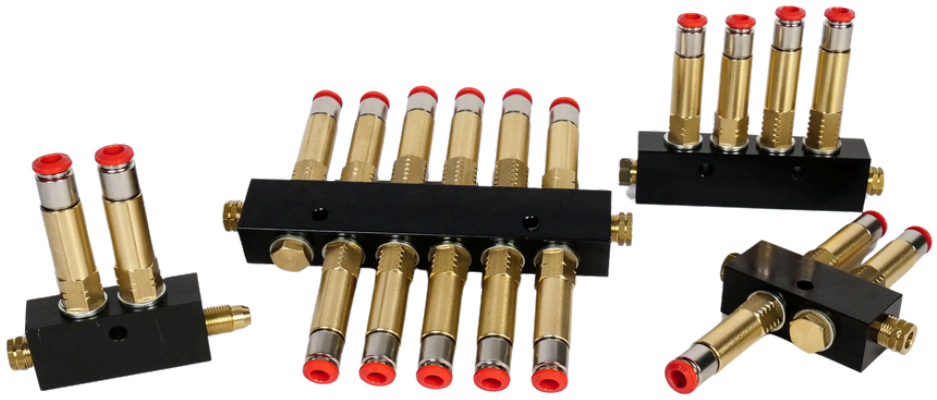
Injectors CLS-V

The high-performance CLS-V injectors operate at a maximum pressure of 413 bar. The two-chamber design and pressure differential piston allow a much faster venting time and therefore, faster ventilation to pump thicker greases and handle longer feed lines with a smaller diameter. All this reduces material and installation costs. Easy to maintain, these injectors have a visual indicator that allows you to identify internal bypasses or faulty seals. They use the same manifolds as other CLSs and are available from 1 to 6 injectors. As the CLS-1, the CLS-V injector features an adjustable capacity of up to 1.31 cm3.

PROGRESSIVE METERING

For grease and oil operations

TYPE A | B | C | D | E

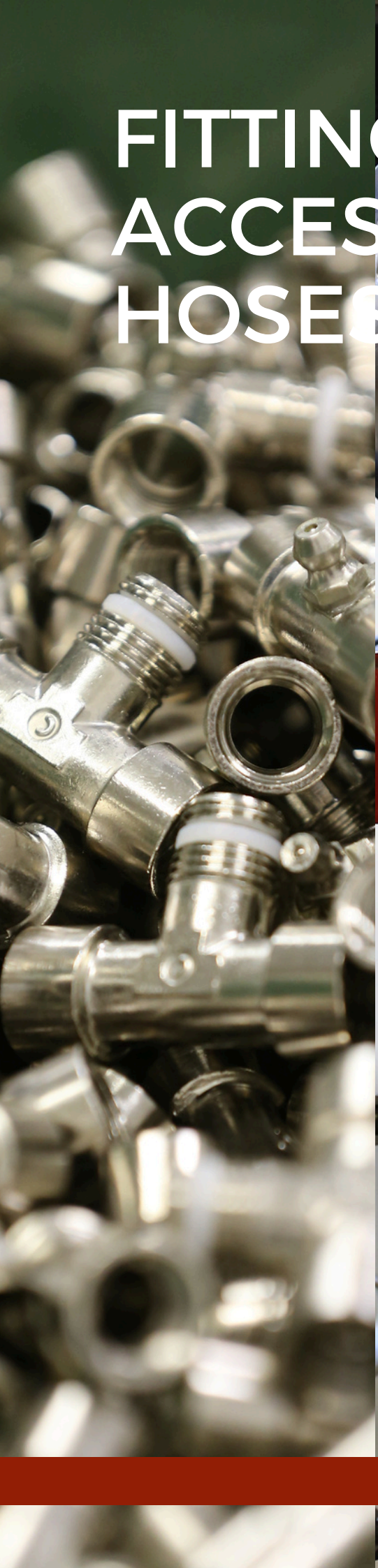


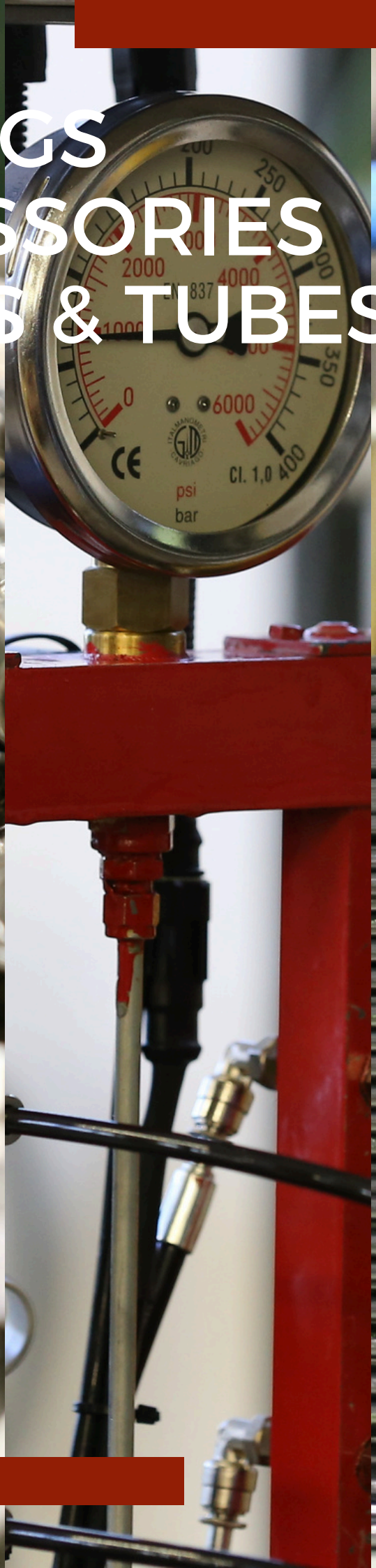
At preset intervals, the Pump EUR 1 supplies grease to adjustable meters, which regulate the correct amount of lubricant for each application.

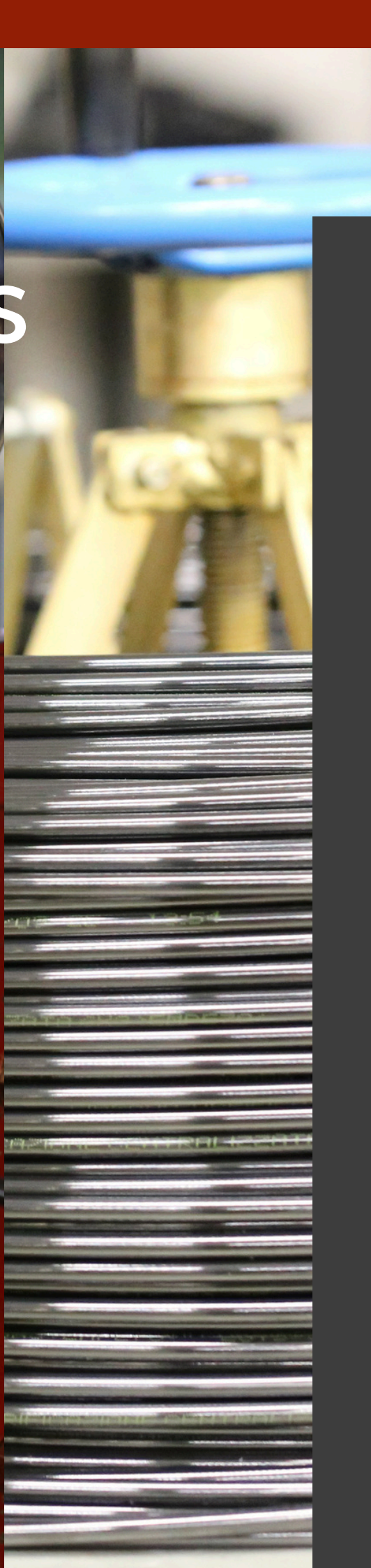
- **Flow Adjustment:** Meter flow rates are customised to meet varying mechanical lubrication needs.
- **Volume Measurement:** The grease quantity is indicated by engraved lines on the meter's brass body and depends on the piston stroke.
- **Stroke Adjustment:** An elastic ring controls the piston stroke, adjusting the grease volume delivered.
- **Delivery Mechanism:** Pressurised grease from the dispenser pushes the piston downward, forcing grease through the plastic tube to the lubrication point.
- **Reloading:** The meter refills using pump-generated pressure difference. A ball valve seals the delivery duct, allowing the piston to return and draw in new grease for the next cycle.

TYPE	FLOW RATE	USAGE
A	0.01 (1 line)	Braking organs
B	0.03 (2 lines)	Suspensions
C	0.05 (3 lines)	Steering organs
D	0.10 (4 lines)	Fifth wheels
E	0.20 (5 lines)	Special equipment

FITTINGS
ACCESSORIES
HOSES & TUBES







FITTINGS

We offer a wide range of screw fittings for all centralized lubrication configurations: products that guarantee quality and durability over time, and **above all longevity of the machine.** In many cases, in fact, the correct functioning of machinery worth millions depends on a single bearing: the moving parts must be protected from direct contact and friction, and must therefore be kept mobile and flexible. This is where fittings come into play. Centralized lubrication systems serve precisely to keep the bearings moving.

Our range of fittings includes the following product families:

- Cutting ring fittings
- Push-in fittings
- Screw sleeves
- Pipe studs
- Extension pieces

Their fields of application are many: construction machinery: wheel loaders, excavators, concrete pumps; agricultural machinery: combine harvesters, potato harvesters, corn cutters, grape harvesters; industrial plants: filling systems, wind plants; utility vehicles: trucks, municipal vehicles, dump trucks, etc.

Fittings for centralized lubrication are subject to continuous improvements: this is why we carefully follow global developments in the sector, to adapt our articles and thus guarantee excellent products that keep up with the times. The quality of our products facilitates assembly and ensures maximum longevity.

ACCESSORIES

We offer a wide range of accessories for lubrication management: a complete catalog, which includes components for centralized lubrication systems, manual lubrication aids, including nipple block, and accessories for flexible and rigid hoses.

These are components of the utmost importance for the correct management of centralized lubrication, to which are added the fixing components for flexible hoses, the supply cylinders and the supply connections, as well as the control and monitoring devices.

Our catalog includes all the main components required for lubrication systems and, to provide an even wider choice of products, we have expanded our portfolio by also adding other special types of accessories, such as screw fittings.

The advantages for our customers:

- All items are directly available in stock
- We offer advantageous storage costs for our customers
- We guarantee products of particular standards in accordance with DIN and ISO standards
- We create special models based on the customer's design

We can also supply turning and milling parts according to the specifications requested by our customers, both in small and large batches.

HOSES & TUBES

Main pipe

The main pipe connects the pumping element to the progressive distributor. It is an anti-abrasive hydraulic hose with high chemical-physical characteristics; it is composed of a thermoplastic polyester under layer, a reinforcement of polyester braids and a thermoplastic and micro-perforated polyurethane covering. The polyurethane used for the external covering **guarantees resistance to abrasion and environmental agents.**

	00630	**00760**
• Outer diameter	(3/16 Ø 9,6 mm)	(3/16 Ø 9,6 mm)
• Operating temperature	Da – 40°C a + 93°C	Da – 40°C a + 93°C
• Minimum burst pressure at 20°C	~ 840 bar	~ 840 bar
• Minimum radius of curvature	25 mm	25 mm
• Weight	60 g/m	45 g/m

Secondary pipe

The 6x1.5 secondary pipe is of type A - single layer in Hytrel elastomeric polyester, with characteristics according to ISO, SAE, DIN, N.F., UTAC standards.

• Dimensions	Ø 6 mm x 1.5 mm
• Operating temperature	From – 40°C to + 80°C
• Minimum burst pressure	at 20°C ~ 150 bar
• Minimum radius of curvature	20 mm

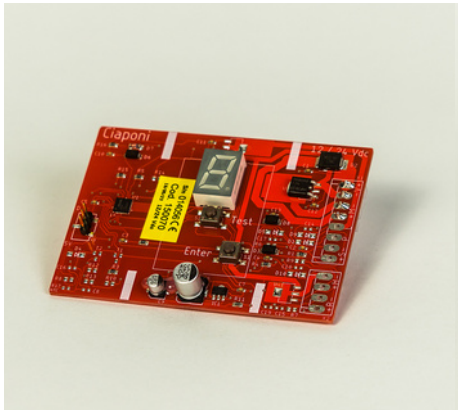
The fittings used in centralized lubrication systems are divided into quick-fit fittings (in nickel-plated brass) and extensions (in brass) for secondary pipes with a diameter of Ø 6 mm, and in recoverable fittings for the R7 main pipe.

TIMERS & PLC

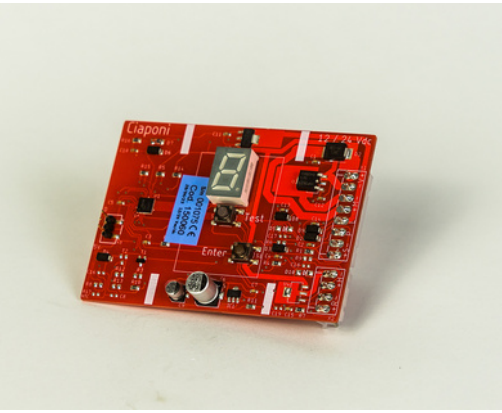
TIMERS

To control and programming the lubrication cycle

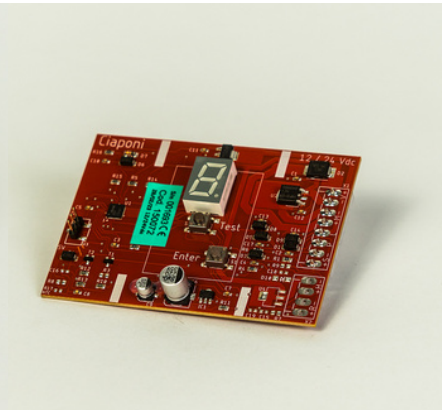
12/24 V DC Programmable Timers for EUR 3 Pumps



12/24v timer pause/work



12/24v timer work/pause/minimum level/ push button/external warning



12/24v timer pause/sensor

- Power Supply: 12 - 30 Vdc
- Maximum Current Load: 5 A
- Shurt-circuit Limitation: 7 A
- Current Consumption in Stand-by: 30 mA
- Current During the Cycle: 50 mA (except current motor)
- Lamp Power Max: 15 W
- Operating Temperature: -25°C to +70°C
- Type of Memory: Digital type (EEPROM)
- Pause Time Setting: From 5 min to 12 hours through digital programming
- Working Time Setting: From 20 sec to 8 min through digital programming

TIMERS

To control and programming the lubrication cycle

12/24 V DC Programmable Timers for EUR 1 Pumps

TIMER 12V EUR 1 dc

TIMER 24V EUR 1 dc

This device is very important because **it controls the whole lubrication system**. In addition to programming the lubrication cycle, the TIMER also provides information on the operation of pump EUR 1 by means of the yellow LED, placed on the front of the TIMER.

The TIMER also has a button that enables the lubrication cycle to be started manually without selecting a specific program.

The TIMER contains a micro-switch which, is used to set the interval between two lubrication cycles, depending on work requirements.

- Power Supply: 20 - 30 Vdc
- Current Consumption in Stand-by: 10 mA
- Max Solenoid Valve Output Current: 1,5 A
- Output short circuit limitation: 5 A
- Time Memory: Unlimited maintenance digital type | 4 pause times | selectable via dip switch
- Greasing time: 10 seconds
- Protection: reverse polarity, overheating and overload

PLC

Designed to monitor and regulate, and provide information of the operations

12/24 PROGRAMMABLE LOGIC CONTROLLER - PLC

- Power Supply: 12 - 30 Vdc
- Current Consumption in Stand-by: 10 mA
- Max current load: 6A
- Lamp current max: 5A
- Time memory: 20 years in absence of input (Digital EEPROM)
- Cycle sensor: Normal open | Close selectable
- Protection: reverse polarity, overheating and overload

Ciaponi lubrication system PLC is specifically designed for centralized lubrication, **suitable for the control of engineering machinery, chassis, and lubrication stations.**
Its control mode and control parameters are stored in EEPROM and can be stored for a long time without backup power support.

The controller adopts LED digital display and LED indicator lights to show information, making it convenient for users to operate and use.

Ciaponi lubrication system PLC is designed and **manufactured in accordance with general engineering technical standards.**

While complying with the corresponding industrial safety and accident prevention regulations, it also meets the general industrial technology acceptance standards.

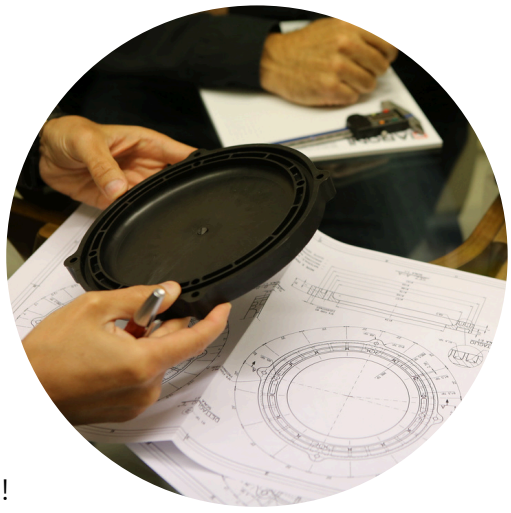
ALL-ROUND SERVICE

Once the lubrication system is installed and put into service, our work ends only when the customer is fully satisfied: this is why we offer a special package suitable for all industrial needs.
We will be your reliable partner for engineering, implementation, assembly, commissioning and maintenance of the lubrication system. When operating our systems, you can count on maximum safety and customer service.

Services:
Engineering and consultancy
Installation
Commission
Repairs
Maintenance programs
Training

Your advantages:
Guarantee of the entire system
Possible extension of the warranty
Installation in accordance with the law
Safe and efficient operation of the system
Increase in economies of scale

Even the most advanced technical components provide optimal performance only if assembly and repair are carried out by qualified and specialized personnel. For this reason, the Ciaponi service is synonymous with greater safety, greater uptime and excellent productivity of the lubrication systems.



Contact us for your lubrication needs: best know-how, technology and personalized assistance

Technical support and a network of distributors
that our customers can always count on all over the world!

SAFETY, PREVENTION AND ISO 45001 COMPLIANCE

At **Ciaponi Centralised Lubrication**, safety is a measurable value.
Each system is designed to protect those who work on industrial equipment, improve operating conditions, and support the achievement of **ISO 45001 certification.**

AUTOMATIC LUBRICATION AND WORKPLACE SAFETY

The **ISO 45001** standard requires an effective management system to reduce health and safety risks.
Centralised lubrication systems offer a practical solution to optimise maintenance, limit operator exposure, and ensure compliance with international safety regulations.

REDUCING OPERATIONAL RISKS

Manual lubrication exposes operators to contact with lubricants, slipping hazards, and interventions on moving or hot parts.
A **centralised lubrication system** removes these risks, reducing maintenance-related incidents and improving overall equipment safety and reliability.

TRACEABILITY AND ISO 45001 COMPLIANCE

Each lubrication cycle is precise and automatically recorded, ensuring **traceability, control**, and compliance with safety procedures.

Main benefits:

- reduced operator risk;
- failure prevention;
- higher reliability and production continuity;
- immediate compliance with ISO 45001.
-

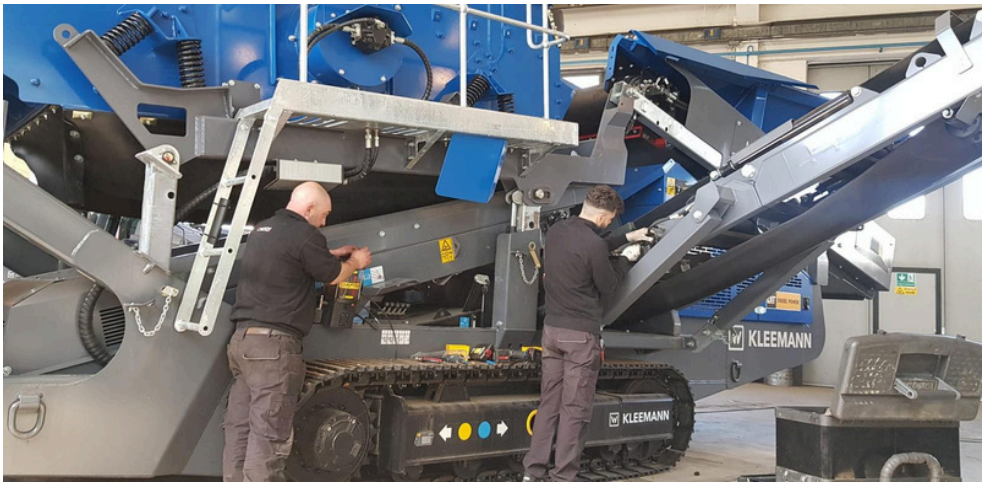
Automatic lubrication creates a safer, more controlled working environment.

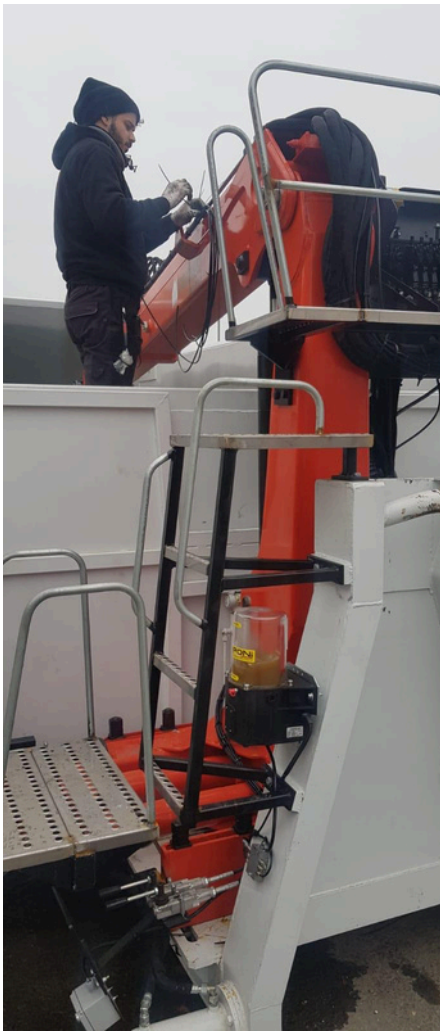
CIAPONI SOLUTIONS FOR SAFETY

Ciaponi Centralised Lubrication designs **custom lubrication systems** that integrate seamlessly into corporate safety management structures.

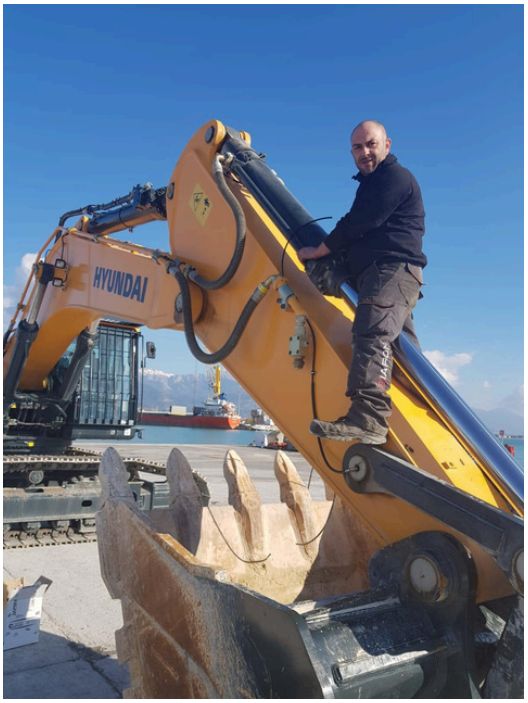
Each solution ensures **reliability, precision, and continuous monitoring.**

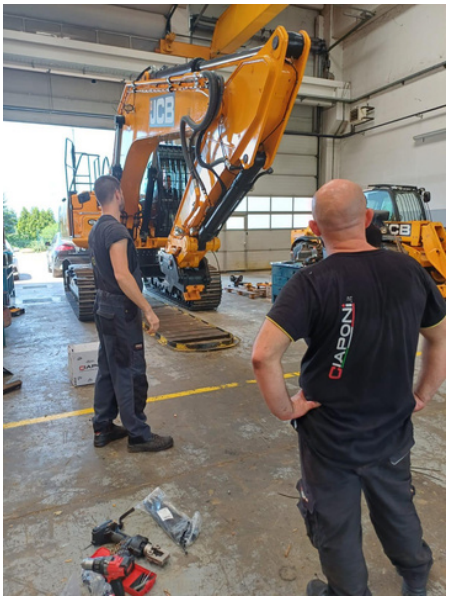
Automating lubrication means **greater safety, lower maintenance costs, and full ISO compliance.**
With **Ciaponi Centralised Lubrication**, e**fficiency and safety become one integrated system.**


KLEEMANN
KLEEMANN

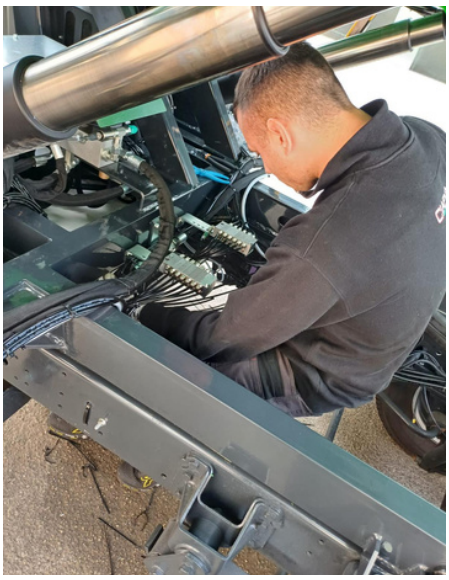



CLAAS
TUCANO


HYUNDAI


JCB
DIARONI


40



Thank you for your trust!

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