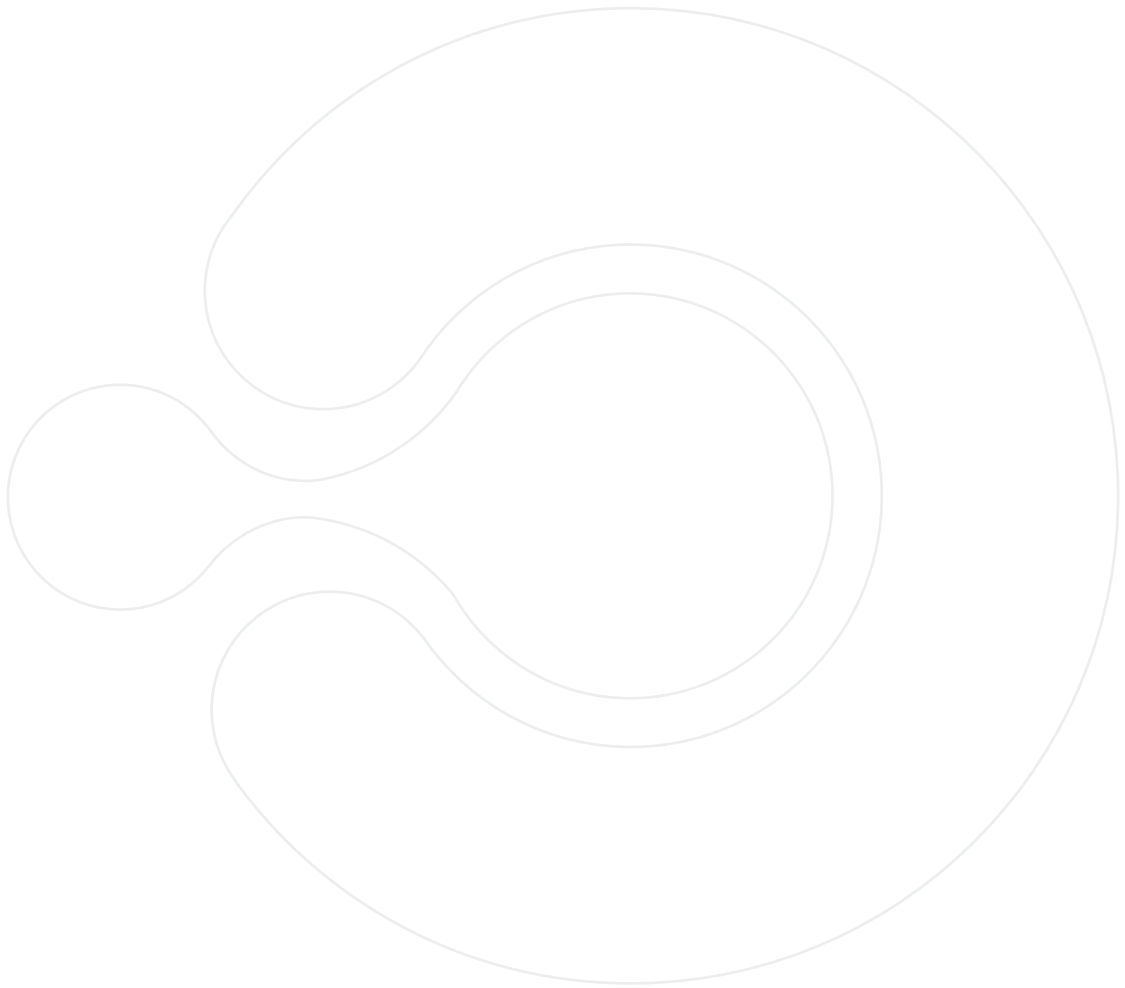




**General
Catalogue**



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More than 50 years of experience in lubrication

Our track record as professionals in the sector began in the early 70s in premises occupying little more than 100m² in Azkoitia's San Martín neighborhood, where we produced lubrication assemblies as simple as they were robust.

Throughout these decades, the reliability of the Intza lubrication units has allowed us to gain the trust of manufacturers of the most diverse sectors of industry. Meanwhile, we have been extending and modernizing our facilities.

Nowadays, our main location is in Ugarte Industrial area in Azkoitia and an extension of more than 3000 m². From this location and other subsidiaries, we are at our customers' service with a quality product, quick deliveries, and professional advice.



Experience

Reliability

Innovation

Manufacturing

Strategic alliances with the best brands in each sector



Experts in the development and production of equipment that minimizes friction and abrasion on machines.



Most advanced MQL system for internal tool cooling.



Integral conveyor chain maintenance system.



Guaranteed quality in lubrication systems

We know that lubrication systems must be faultlessly reliable, and all of the articles manufactured and assembled at **INTZA** are therefore put through rigorous final tests. The international ISO 9001:2015 quality management norm is the result of our daily effort to offer leading technology in lubrication following high product and process standards.

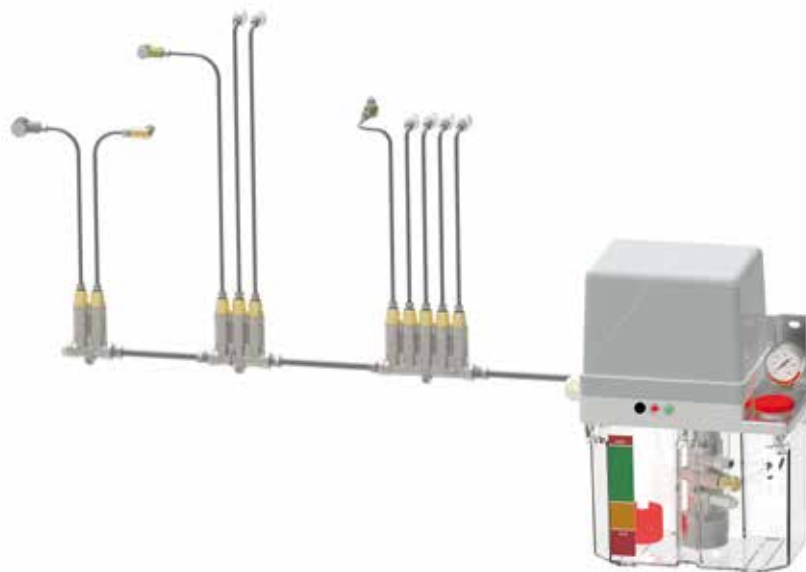


Installation and technical assistance

Design, planning and assembly of lubrication, hydraulic and pneumatic installations. We also offer repair and maintenance services, both corrective and preventive, or comprehensive assistance under contract. We have a professional team with great experience, able to advise our clients the most appropriate solution in each case.



Single-line lubrication system



The **INTZA** single-line systems are optimized for use with OIL and FLUID GREASE in small and medium-sized machinery, combining robustness with an unbeatable quality-price ratio for the machine tool, packaging, printing and textile industries and, in general, any others related to machinery construction.

In every cycle, volumes of lubricant ranging from 0.01 cm³ to 1.5 cm³ are simultaneously delivered to all of the lubrication points.

The management of this lubrication cycle with volumetric distributors guarantees supply of precisely the right amount of lubricant, independently of changes in viscosity or back-pressure.

The modular distribution of the system allows simple, reliable configurations which can be increased to suit the demands of the end client.

How the system functions



1 The quantity of lubricant is stored in the inner chamber of the distributor.



2 When the pump is activated, the inner piston shifts, pushing the lubricant towards the lubrication point at the same pressure as in the main line at that particular moment.



3 When the main line pressure drops, the distributor piston returns, allowing the pre-defined quantity of lubricant to enter the inner chamber once again and restarting the process.



Products • Single-line lubrication system

GE Series

Lubrication packages for oil and fluid grease, with and without monitoring and control devices, in different voltages and reservoir capacities



PE Series

Manual, pneumatic and hydraulic piston pumps for oil and fluid grease



GE33 Series

Group with double relief valve



Groups with UL components



DE / VE Series

Direct action volumetric distributors for fluid oil and grease, for mounting in line or directly at the lubrication point



VE14

Indirect action volumetric distributors



Progressive lubrication system



Designed for oil and grease (up to NLGI-2)

INTZA progressive systems are optimized for use in small and medium-sized machinery, combining robustness with an unbeatable quality-price ratio for the construction industry, industrial presses, recycling, printing, wind turbines and applications with food fats.

A pump supplies the lubricant to the distributors, which divide the flow precisely and progressively (one by one, in series), between their different outlets.

Each distributor outlet can directly feed a lubrication point or a second sub-distributor, once again proportionally dividing the flow received between the operational outlets.

To ensure that the system is working properly, visual or electronic systems are used to control the movement of any of the pistons inside the distributor.

The INTZA progressive systems combine the highest technology in the field (in pumps and the complete range of progressive distributors, whether in block, segment or modular format).

How the system works



The system takes its name from the fact that the lubricant is distributed progressively to the lubrication points. The lubricant input causes a first piston to shift, which in turn forces the following pistons into movement, pushing the flow through the outlets and keeping it in progressive and continuous movement for as long as the lubricant input continues.

This means that, in the event that one of the pistons blocks, the distributor will be paralyzed (blocked).



Products • Progressive lubrication system

GMA



GM01



GF33



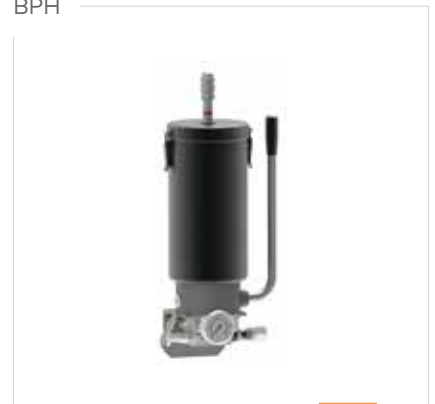
Pneumatically driven pumps PN11



Electromagnetic pumps MP11



Manual pumps BPH



VP33 progressive block distributor 0.07-0.2 cm³/imp



Progressive modular distributor VP10 0.04-0.08-0.16-0.25-0.35-0.40-0.50-0.60-0.65 cm³/imp



Progressive air-oil distributor VOP33 110 mm³/imp



Progressive plate distributor VP20/A 24-45-75-110 mm³/imp



Progressive distributor of VP20/B plates 0.08-0.16-0.24 cm³/imp



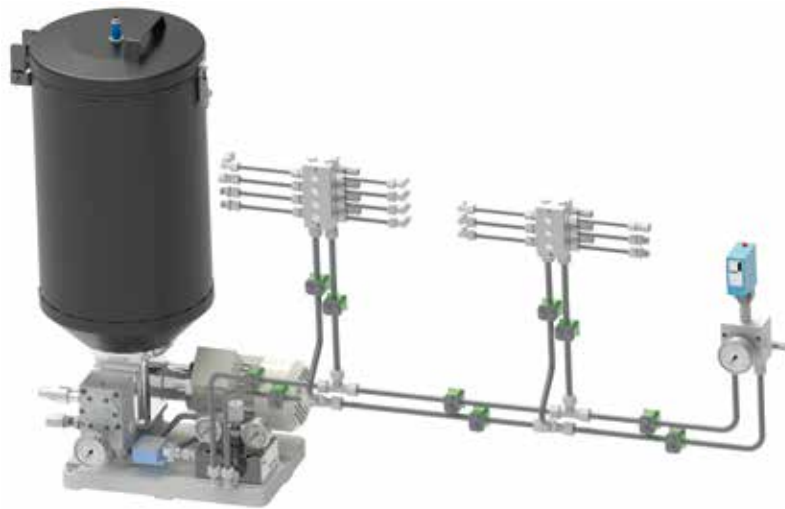
Progressive distributor of VP20/D plates 0.6...5 cm³/imp



Progressive distributor of VP20/F plates 2...10 cm³/imp



Double-line lubrication system



2 main lines for oil and grease (up to NLGI-2)

INTZA double-line systems are designed for large-sized machinery and installations with several lubrication points, large distances between them, long lines and adverse working conditions (temperature, contamination, corrosion and presence of water).

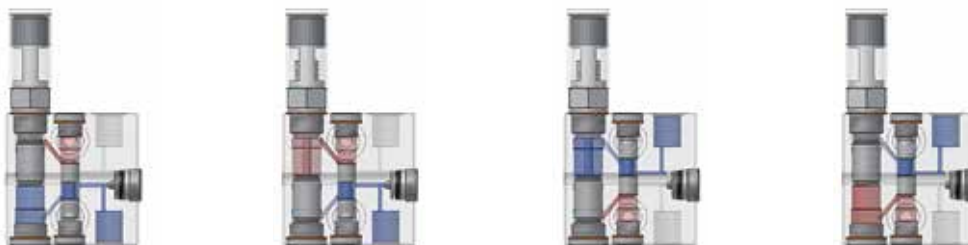
Among their more regular applications, double-line systems are used in mining, iron & steel plants, the paper industry, the cement industry, power plants, bridge cranes and port stevedoring.

The pump alternately drives lubricant by means of change-over valve through the two main lines to the distributors, which dose it out to the lubrication points.

Advantages of a double-line installation:

- Fully hydraulic operation; has no springs likely to acquire fatigue over time.
- Point by point dose regulation.
- Almost unlimited number of lubrication points and installations easy to expand.

How the system works



The pressure formed in the pump is transmitted alternately, through the change-over valve, towards the distributor by means of the two main inlet ports.

The arrival of lubricant by the lower or higher inlet port creates pressure, shifting the change-over valve and doser pistons to fill the chamber left free with lubricant.

By means of the inversion, the arrival of lubricant through the other inlet port once again shifts the change-over valve and doser pistons, filling the chamber and pushing out the lubricant accumulated in the chamber in the previous movement.



Products • Double-line lubrication system

Pumping units

Electric pumps

- GF33



Manual pumps

- BPZ



Distributors

Distributors for double line in block

- Standard VZ01
- With monitoring VZ02
- For high temperature VZ03
- With fixed flow VZ04



Modular assembly distributors

- Dual line VZ21



Control and monitoring elements

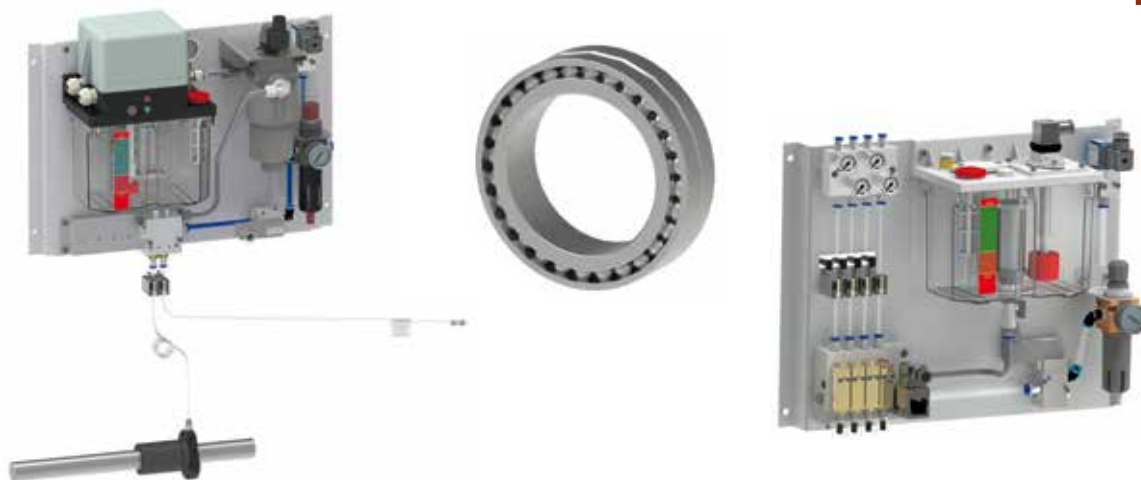
Overpressure changeovers



End of line control



Air-oil lubrication system

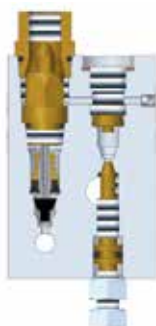


INTZA air-oil systems are essentially designed for application in the **machine tool industry**, (high-speed spindle heads, precision bearings and lubrication of closed gear boxes). They can also be used to provide small and frequent amounts of lubrication to high speed production or machining processes where external lubrication is impossible.

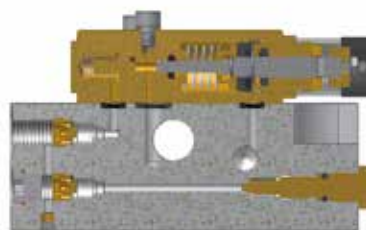
Depending on the installation characteristics, lubrication frequency and flows at desired points, volumetric dosers can be chosen which are fed by a pump (electric, pneumatic, etc) that works with pressure/decompression guidelines.

For high frequency/low flow operations (from 4 to 30mm³/stroke), pneumatic micro-pumps are more suitable.

How the system works



The volumetric dosers work on the basis of single-line installation principles, with the particularity of an additional air inlet. Depending on the doser model, the air inlet flow may be adjustable.



Pneumatic micro-pumps allows high operating frequency (3Hz) for guaranteed super lean oil-air lubrication.



Products • Air-oil lubrication system

GOE

Panels with lubrication center and volumetric dispenser



VOE50

Panels with volumetric dispenser and accessories



VOE20

Volumetric dispenser with air flow regulation



VOE10

Volumetric dispenser without air flow regulation



PN05/B

Micropumps with tank



PN05/C - PN05/D

Micropumps on panel with and without tank



PN05/H

Lubrication pump with control unit



PY01

Single and double extraction equipment



Electro-optical sensor for tube mounting

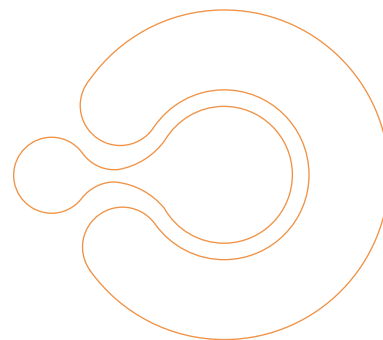
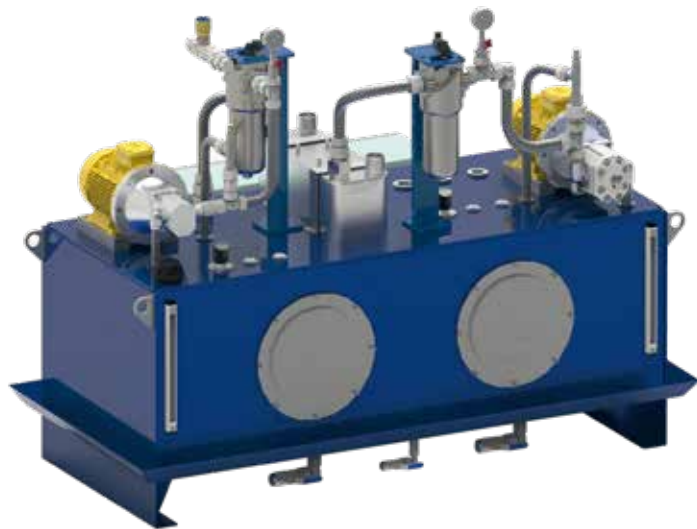


AF02

Block for visual control



Oil circulation lubrication system



INTZA oil circulation systems are intended not only **to lubricate but also to cool the elements** that are subjected to extreme loads, pollution and ambient or operating temperatures.

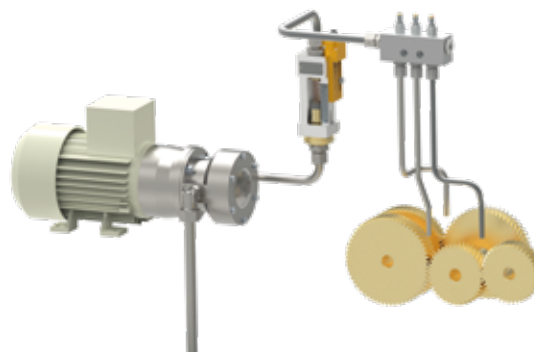
In this type of systems, it is important to control the temperature, eliminate the dirt, air or water particles.

The systems consist in a pump that send lubricant (always oil) to flow regulation elements (manual flow regulators, progressive distributors, flow meters and automatic flow regulators).

Visual or electric monitoring devices are usually applied to these regulators **to ensure that** the system **functions correctly**.

INTZA oil circulation lubrication systems are available in versions ranging from small 3 liter reservoirs and pumps with a flow of 0.06 l/min to customized 6.1 liter stainless steel reservoirs with flows of up to 200 l/min.

In all cases, the modular design and simplicity when it comes to combining elements means that this system can be almost totally adapted to the requirements of each client and application.





Products • Oil circulation lubrication system

Motor pumps, in different kinds of construction, flows and pressures



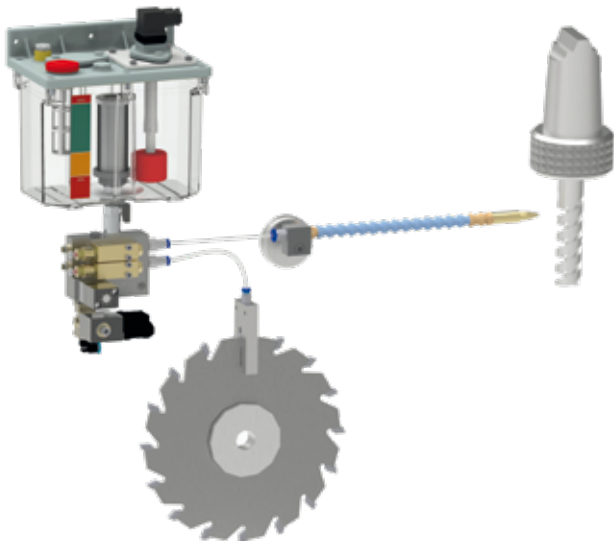
Customized assemblies to the client's technical specifications or requirements



Components for flow regulation and monitoring



Minimum quantity lubrication (MQL) in machining processes



The tool lubrication/cooling systems conventionally used in metalworking and machining processes tend to use great amounts of cutting fluids for the majority of operations, mostly emulsified (cutting fluids) and containing highly contaminant mineral oils.

Using these fluids, in addition to having a negative effect on the environment, represents a health risk to machine operators and can cause another series of problems such cost of purchase, storage and maintenance, not to mention the increasingly higher cost of eliminating its waste.

By means of precise aerosol application, the **INTZA** MQL systems wet the cutting area with the amount of strictly necessary fluid, **thereby drastically reducing (up to 95%) the amount of cutting fluid consumed** and guaranteeing perfectly adequate lubrication and cooling.

LUBRIX MQL Systems



LUBRIX

MQL-Systems

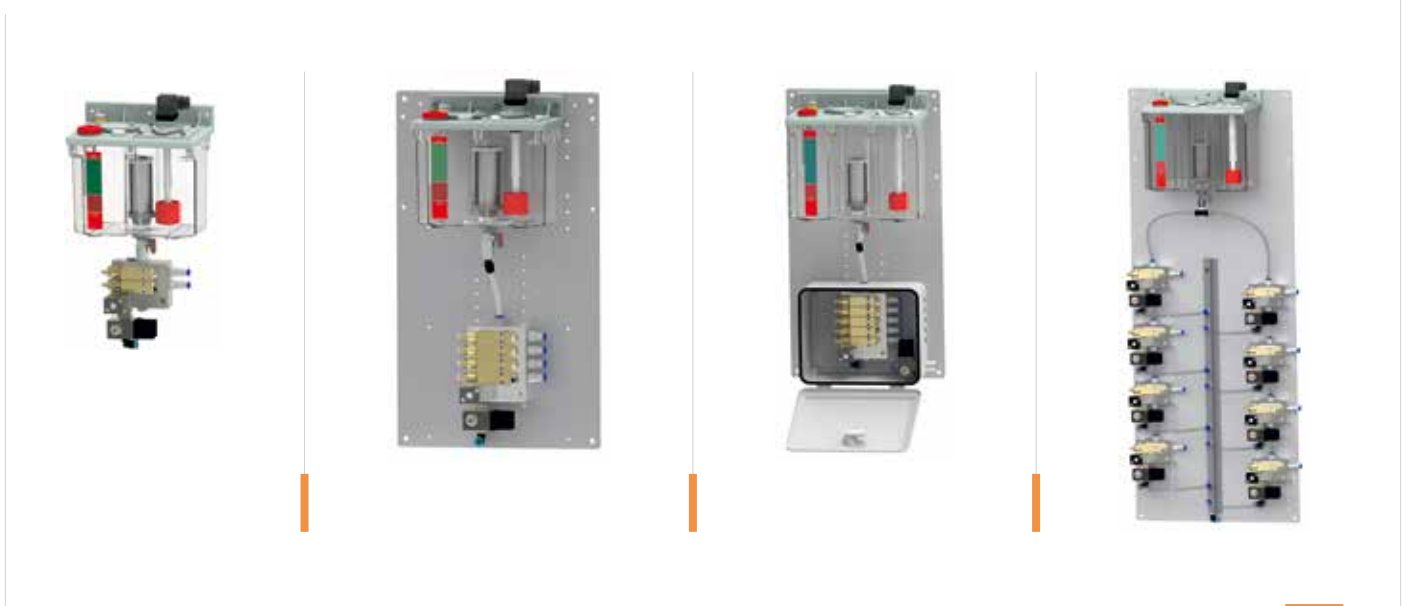
The LUBRIX MQL Systems minimum quantity lubrication system is an advanced technology for internally lubricating the tool in machining operations such as milling, turning, deburring, threading, thread forming, drilling, deep drilling, grinding, fine boring or rolling. Machining operations can be performed more effectively by replacing conventional cooling and coolant lubrication with the LUBRIX optimized MQL lubrication technique.





Products • Minimum quantity lubrication (MQL) in machining processes

Micropump equipment with tank, mounted on panel, etc...



Wide range of spray nozzles



LUBRIX MQL-Systems

The following table provides an overview of the different models and their application areas.

[See table ↓](#)





Chain lubrication systems



Intza Lubrication Systems has a wide range of solutions for chains and conveyors, present in many types of industrial and logistic activities.

Lubricant spray or injection system using micropumps
→



Lubricant injection system using electromagnetic pumps
→



Equipment for lubrication, monitoring and cleaning of conveyor chains
→

OPCO
LUBRICATION SYSTEMS, INC.

MIGHTY LUBE
Systematic Lubrication, Inc.



Chain lubrication systems



C+lean Spot

Intza's C+Lean Spot range is the next generation in automatic chain lubrication. A compact, closed and all-in-one system, ready to install very easily and quickly.

All-in-one

Very compact and robust equipment, including reservoir, pumps and automation in one box.

Easy installation

No electrical installation needed, plug and play. Piping installation with flexibles (no rigid piping needed) delivered attached to equipment.

Low consumption

Thanks to MQL technology in the range of 3-30 mm³ per stroke, the lubricant consumption is strongly reduced.

High-viscosity

Able to pump high viscosity lubricants! Up to 500 CSt. Adequate chain lubricants have a high viscosity (>200 VG) and are sticky.



Clear and intuitive

Visible and clear background LED light alarm system. Clear user interface.

Clean spot

Air curtain technology shoots very clear spots with almost no small drops around.

Interconnectivity

Outgoing signal cable for control of the system from a central office.

Clean lubricant inlet

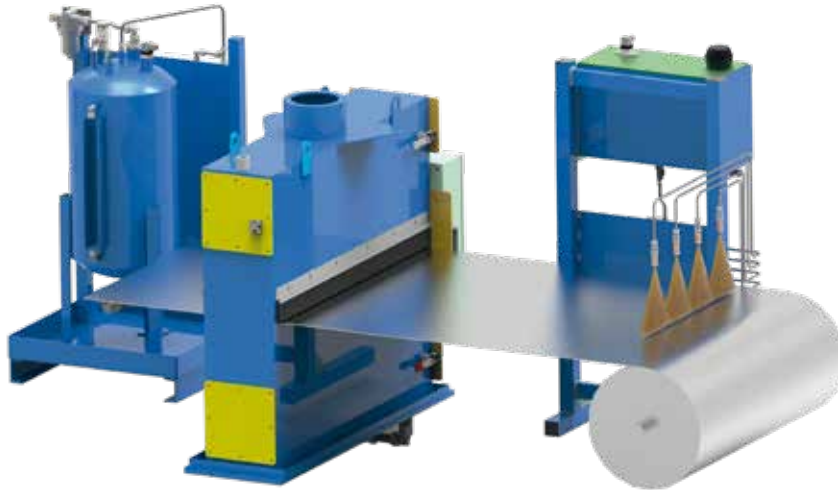
Dirty particles entered in filling process are main cause of future. To avoid this: you can only fill to with quick coupling to ensure cleanness!

Proven technology

A reliable and automated chain lubrication avoids unexpected break up and increases chain life.

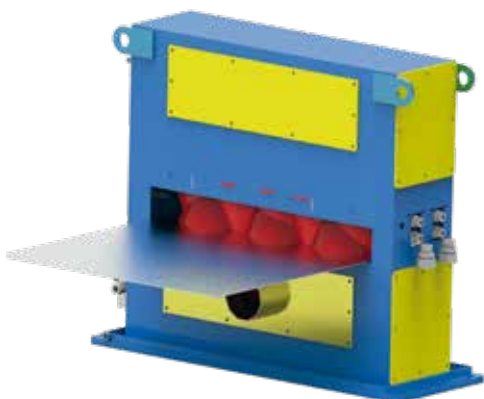
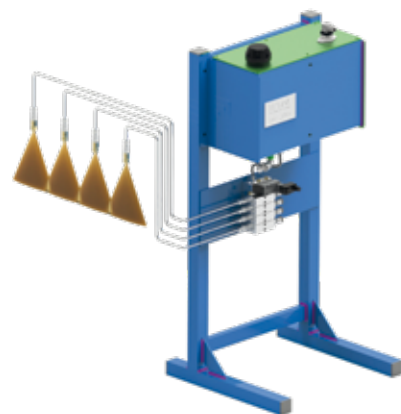
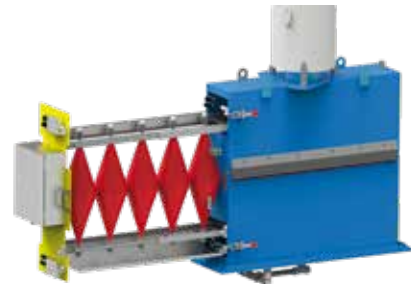


Lubrication for metal stamping & forging processes, deep drawing, die cutting, die lubrication...



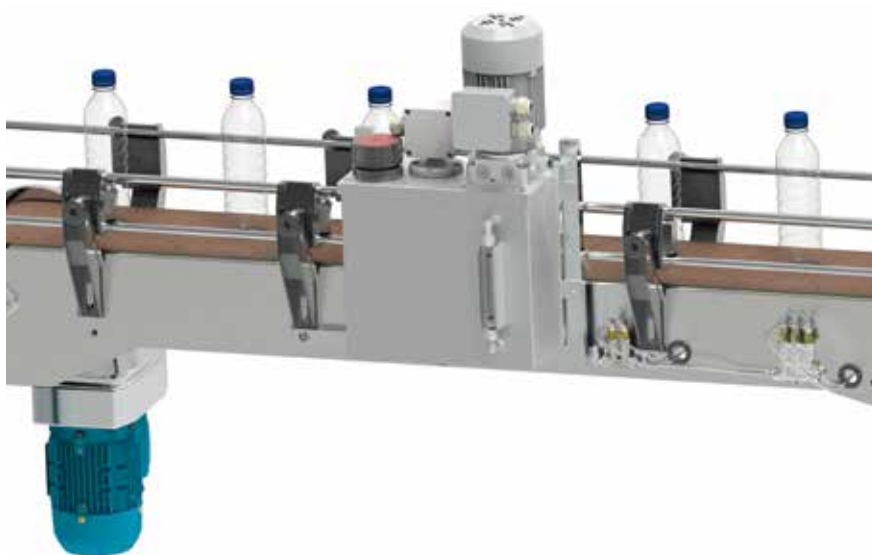
Metalworking sometimes requires a great deal of pressure to achieve the required deformations, and lubrication is one of the variables that affect the materials during the stamping process.

Using a good lubricant, in the correct amount and dosage, can **translate into a significant reduction in waste and improved stamping quality**, preventing product rejects and only using the precise amount of oil, with no massive generation of waste.



At **INTZA** we design and manufacture all kinds of systems to facilitate the automated lubrication of this kind of processes, ranging from specially designed nozzles for a perfect oil spray, to pressurized systems with several outlet ports and complete cabins that even permit extraction of the mist generated in the procedure.

"Dry" lubrication for conveyor belts in the food industry



INTZA dry lubrication systems substitute the use of water soluble lubricants (water & soapy solutions) for a series of lubricants specifically developed to lubricate conveyor belts and the guides they run on. Said lubricants are applied volumetrically on both elements for immediate adherence, reducing the friction, but without drips or dampness of any kind.

The system works in a similar way to single-line lubrication systems (see page 4). A pumping unit pushes a flow of oil into the main line; this oil then distributed to the lubrication point according to the volume established in each outlet port of the volumetric distributors. The oil is directly applied to the guides in a precise dosage, while in the case of the chains, plastic strips are installed for homogenous dosage.

Volumetric distributors with zinc-plated or stainless-steel body, with quick plug outlet



Screws for guides lubrication



Implantation fittings (FDA-1935/2004/CE)



Polyethylene plates to lubricate the surfaces of the hinges





Grease & oil dosing for assembly lines and stations

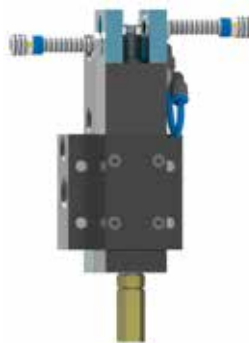


INTZA grease and oil dosing systems are used to mount lubricant dosing installations on the assembly lines of household appliances, special machines, production lines, shock absorber and brake assembly lines, the automotive industry...

The purpose of a dosing installation is to deliver an exact dose of lubricant to a particular part of the mechanism at a specific time and rhythm.



Double-effect dosers DN12 series, generally fed by pneumatic container pumps with dosing ranges of between 20 and 3500 mm³/stroke.



Single-effect dosers, PN03 series and fed from a reservoir with dosing ranges of between 3 and 60 mm³/stroke.



Railway lubrication



In recent years **INTZA** has developed specific lubrication systems for application in the railway industry, both to improve the useful life of wheelsets (flange lubrication) and, by means of systems to lubricate the rails from the vehicle, to prevent noise, particularly in overground intercity transport.

The objective of the lubrication system is to;

- Reduce noise and wear on wheels and rails.
- Reduce lubricant and compressed air consumption to the minimum.
- Supply an economical system with low installation and maintenance costs once up and running.
- Define a system applicable to trains, trams, suburban underground systems and any other vehicle running on rails.

Depending on the application, we can supply systems to spray oil or grease (up to NLGI 2).

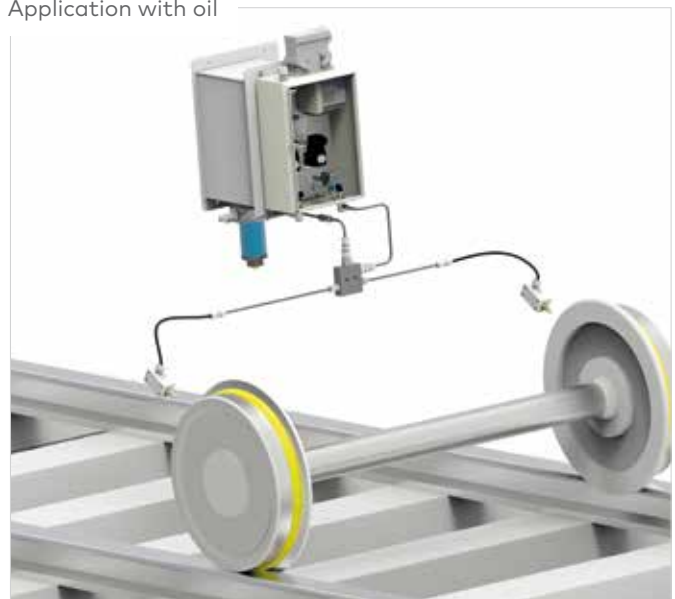
Spray nozzles



Flow divider



Application with oil



Application with grease





Metal cable lubrication



The **INTZA** metal cable lubricating mechanism is used in systems requiring cable lubrication without stopping the machinery: shipping, ports, mining, construction, funicular railways, cable cars, cranes and lifts.

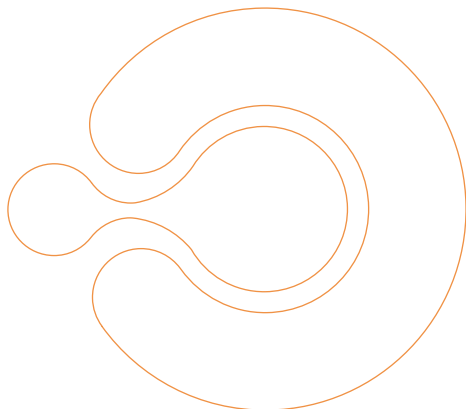
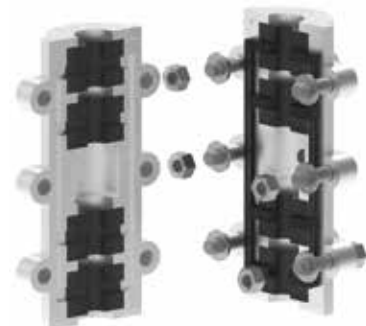
Thanks to its design, the mechanism can be assembled in any position, although the most recommendable is as close as possible to the cable winding drum. It is mounted directly on the cable and will continue to lubricate while the installation remains in operation.

The mechanism consists of a split body (two halves), mounted on the cable to be lubricated and closed with the rod and bolt system on the mechanism itself. Both sides have two handles serving, with karabiners and chains, to hold the device in place and withstand the force of the moving cable.

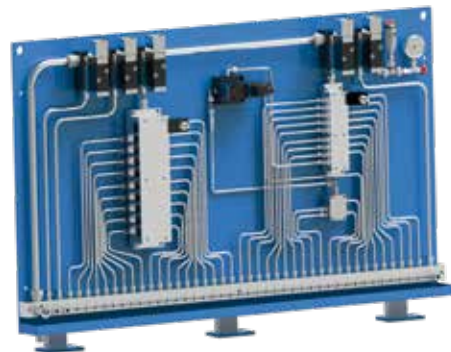
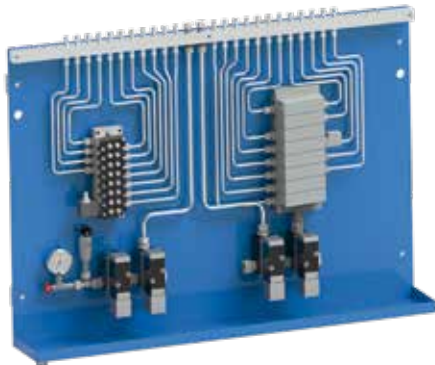
A pump injects lubricant into the chamber of the mechanism. The cable is lubricated as it moves through the chamber.

The rubber bushing at the cable entry point removes the old grease.

The bushing located at the outlet port homogeneously distributes the new lubricant applied (each bushing set must be adapted to the cable diameter).



Design and manufacturing of customized equipment





Dosing of minimum quantities of lubricant using multi-outlet pumps



Pump units

Pneumatic drive

- 20-40-60 mm³
- 2 to 6 outputs



Pneumatic drive

- Adjustable flow rate 3-60 mm³
- 1 to 6 outputs



Electric drive

- 20-40-60 mm³
- 2 to 6 outputs



Electric drive

- 40 mm³
- 1 to 6 outputs



Windmill lubrication



Solutions for the wind farm industry

Automated lubrications system for;

- Low speed shaft bearing
- Blade bearing
- Main yaw bearing
- Generator bearing
- Yaw bearing



Pumping system



Progressive system



Gear type lubrication

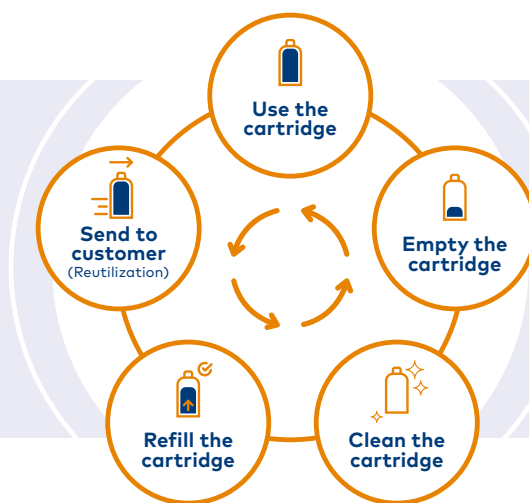


Collection of used grease (900 ml). Reusable cartridge



Concept for reutilization of grease cartridges

Environment friendly and reduction of refill timing.



Partner company



WINSOCON
Lubrication solutions and consulting for windturbines



Accessories

Tanks

Tanks to feed pumps or systems, collection facilities, etc...



Filters

Pressure filters for oil or grease and gas outlet filters



Level switches

Switches for monitoring the level in tanks





Fittings

All types of fittings for application in medium and high pressure lubrication circuits







The company name INTZA comes from "ihintza", which means "dew" in Basque language, hence the drops shown in the drawing. Just as plants in nature need morning dew for their growth, machines require INTZA lubrication systems for their smooth functioning.

Der Firmenname INTZA kommt von „ihintza“, was auf Baskisch „Tau“ bedeutet, daher die in der Zeichnung abgebildeten Tropfen. So wie Pflanzen in der Natur für ihr Wachstum Morgentau benötigen, benötigen Maschinen für ihre ordnungsgemäße Funktion INTZA-Schmiersysteme.

Le nom de l'entreprise INTZA vient de « ihintza », qui signifie « rosée » en basque, d'où les gouttes représentées sur le dessin. Tout comme les plantes dans la nature ont besoin de la rosée du matin pour leur croissance, les machines nécessitent les systèmes de lubrification INTZA pour leur bon fonctionnement.



Here is the explanation of the artist Gorka Larrañaga.

Hier ist die Erklärung des Künstlers Gorka Larrañaga.

Voici l'explication de l'artiste Gorka Larrañaga.



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