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MEMOLUB®



NEXTRA SERIES

NEXT-GENERATION CENTRALISED AUTOMATIC LUBRICATION SYSTEMS.

PRECISE VOLUME

VERIFIED LUBRICATION

INTELLIGENT CONTROL

ONBOARD CONNECTIVITY

MEMOLUB.COM

A RELIABLE ECOSYSTEM

The MEMOLUB NEXTRA Series is a fully integrated automatic lubrication system built on progressive technology, closed-loop control, and scalable digital intelligence. Designed for precision and consistency, it delivers accurate, repeatable lubrication across multiple points, even in high-pressure, high-vibration, and variable conditions. Combining a high-performance progressive pump with intelligent control, it turns lubrication into a data-driven process, enhancing reliability while enabling preventive and predictive maintenance in industrial and mobile applications.



PROGRESSIVE LUBRICATION SYSTEM PUMPS.

The MEMOLUB NEXTRA pumps are electro-mechanical progressive lubrication units engineered to deliver stable, high-pressure lubricant flow within centralized lubrication systems. Designed for precision, they provide volume-controlled grease distribution to progressive divider blocks, ensuring sequential and verified delivery to each lubrication point.

Key engineering features include high-pressure performance, consistent output regardless of temperature variations, and compatibility with greases up to NLGI Grade 2. Built for durability, their robust construction supports continuous operation in demanding environments.

The progressive operating principle ensures that any blockage or flow interruption is immediately detected at system level, enabling early fault identification, enhanced system protection, and maximum operational reliability.

INTELLIGENT CONTROLLERS.

The MEMOLUB NEXTRA Series LINK controllers form the control, monitoring, and protection layer of the MEMOLUB NEXTRA ecosystem. These microprocessor-based units manage lubrication cycle logic, including discharge and pause sequencing, while continuously monitoring both electrical and mechanical system parameters. Depending on the configuration, LINK controllers enable output verification through proximity sensing, pressure-based validation, as well as advanced fault diagnostics and alarm management. Enhanced versions offer data logging, remote configuration, and seamless connectivity via Wi-Fi, GSM, or eSIM—enabling full integration with digital maintenance platforms and Industry 4.0 environments.

Through closed-loop control and intelligent monitoring, the MEMOLUB NEXTRA Series LINK controllers transform the system from a standalone lubrication unit into a fully connected, data-driven maintenance solution.

NEXTRA SERIES
CORE FEATURES



DUAL-VENT SYSTEM WITH SEPARATED AIR & GREASE VENTING

Two independent, serviceable vents—one for air evacuation and one for grease overflow—prevent blockage, eliminate internal pressure build-up, and significantly improve pump durability and operational safety.

CONTROLLED REFILLING MODE FOR AIR-FREE, UNIFORM GREASE FILLING

A selectable refilling mode ensures uniform grease distribution within the reservoir while allowing trapped air to escape progressively, eliminating air pockets and enabling immediate, stable operation after refilling.



VOLUME-BASED LUBRICATION CONTROL

Lubrication is governed by pump displacement rather than time, ensuring accurate and repeatable grease delivery in every cycle.

This approach eliminates variability caused by temperature, viscosity, or line resistance, removing the uncertainty associated with conventional time-based systems.

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ONBOARD CONNECTIVITY FOR INDUSTRY 4.0 APPLICATIONS

PROGRESSIVE LUBRICATION PRINCIPLE

Sequential grease delivery to all lubrication points, powered by a reliable 12 V / 24 V DC motor.

VOLUME-BASED LUBRICANT DISCHARGE

Fixed output per stroke for precise, repeatable lubrication, independent of system conditions.

HIGH-PRESSURE & WIDE TEMPERATURE RANGE

Up to 350 bar operation, from –30°C to +70 °C. Compatible with NLGI Grade 2 greases.

ROBUST MECHANICAL DESIGN

Leak-free, durable, and vibration-resistant construction for demanding environments.



LUBRICATION CYCLE CONTROL

Volume-based control with programmable quantity and intervals, optimized for progressive lubrication systems.

OUTPUT MONITORING AND VERIFICATION

Sensor-based monitoring confirms grease delivery and ensures correct execution of lubrication cycles.

SYSTEM PROTECTION AND DIAGNOSTICS

Integrated monitoring of motor load, voltage, and faults, ensuring safe operation and early issue detection.

RESERVOIR AND PRESSURE MONITORING

Real-time level indication and pressure validation confirm cycle completion and detect blockages early.

DIGITAL CONNECTIVITY

Real-time system visibility with remote monitoring, alerts, and mobile access for enhanced control.

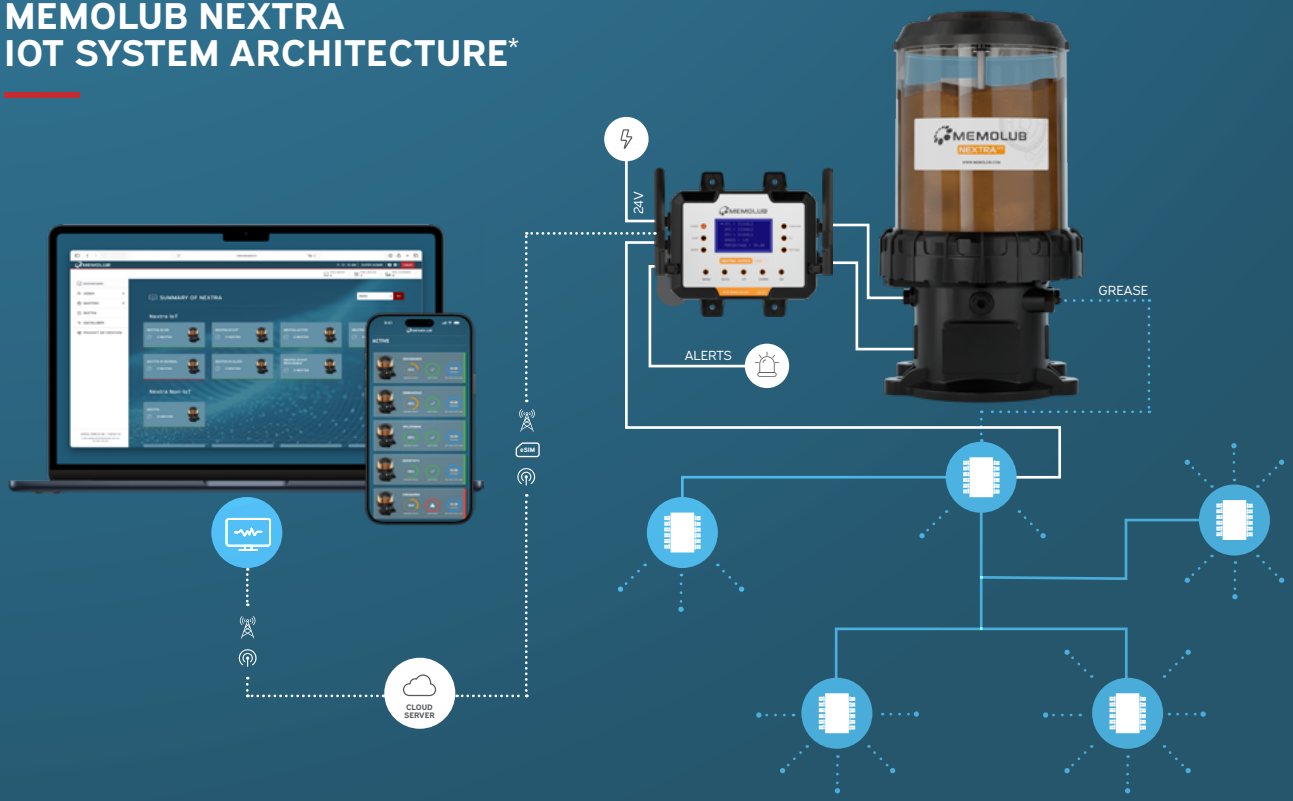
DATA & ANALYTICAL INTELLIGENCE

Logging, trend analysis, and system insights enable predictive maintenance and Industry 4.0 integration.

MEMOLUB NEXTRA SERIES PRODUCT OVERVIEW

	PUMP	CONTROLLER	DESCRIPTION	ONBOARD CONNECTIVITY	REMOTE SUPPORT	TYPICAL APPLICATION
NEXTRA LITE		-	Pump without a controller	-	-	OEM and system integrator applications with external control or PLC-based logic
NEXTRA PLUS		Onboard	Operator-dependent, inconsistent	-	-	Standard industrial automatic lubrication systems requiring local control
NEXTRA PRO			Pump with external intelligent controller	-	-	Mobile and off-highway equipment needing in-cabin access and protection from harsh conditions
NEXTRA ULTRA			Pump with external intelligent controller enabled with GSM and Wi-Fi connectivity	SIM + Wi-Fi	YES	Smart factories and connected fleets requiring Industry 4.0 integration, real-time monitoring, and centralized performance visibility across networked operations.
NEXTRA ELITE			Pump with external intelligent controller enabled with eSIM and Wi-Fi connectivity	eSIM + Wi-Fi	YES	Wide-area and globally distributed industrial operations requiring seamless eSIM & Wi-Fi enterprise-level connectivity, secure remote access, and centralized control across geographically dispersed assets.

MEMOLUB NEXTRA IOT SYSTEM ARCHITECTURE*



*Only applicable on Nextra Ultra and Nextra Elite setups.

A TECHNICAL COMPARISON



PARAMETER	MANUAL LUBRICATION	CONVENTIONAL ALS	NEXTRA SERIES
Lubrication Method	Manual application with a grease gun	Automatic	Intelligent and automatic
Lubrication Accuracy	Operator-dependent, inconsistent	Time-based, partially controlled	Volume-based, highly accurate
Consistency of Lubrication	Varies with the operator's skill and discipline	Improved over manual, but unverified	Consistent, repeatable, and verified
Human Dependency	Very high	Medium	Minimal
Lubrication Verification	Not possible	Limited or none	Output-verified lubrication
System Monitoring	No monitoring	Basic indication	Real-time system monitoring
Uniform Refilling	-	No	Yes
Vent Design	-	Single vent for air & grease	Dual vent with separate air & gease paths
Air Entrapment Risk	-	Medium	Eliminated
Internal Pressure Build-up	-	Medium risk during refilling	Prevented by design
Breakage During Refilling	-	Occasional	Eliminated
Progressive Distribution	-	Yes	Yes, with output verification
System Pressure Capability	-	Medium	High, up to 350 bar
Maintenance Requirement	-	Reduced but reactive	Predictive and condition-based
Downtime Risk	High	Medium	Minimal
Equipment Life	Reduced	Improved	Maximised
Safety Risk	High, manual exposure	Reduced	Significantly improved
Data & Diagnostics	-	Limited	Data logging & diagnostics
Remote Monitoring	-	Not available	Available: Wi-Fi / GSM / eSIM
Industry 4.0 Readiness	-	Not compatible	Fully compatible
OEM Integration	-	Limited	Fully scalable & OEM-ready
Total Cost of Ownership	High	Medium	Lowest over the life cycle

TECHNICAL SPECIFICATIONS
NEXTRA SERIES PUMP AT A GLANCE.

HIGH-PRESSURE & WIDE TEMPERATURE RANGE

Pump type	Progressive electro-mechanical lubrication pump
Operating principle	Volume-based progressive pumping
Maximum pressure	Up to 350 bar
Discharge per stroke	0.20 cc / 0.16 cc (Pumping Elements: NPE 07 / NPE 06)
Number of outlets	Up to 3
Body Material	PA6 reinforced with 50% glass fibre
Container Material	Bio-based

RESERVOIR & REFILLING

Reservoir capacity	4 L / 8 L
Refilling method	Manual refilling
Vent design	Dual vent, with separate air & grease vents
Refilling support	Selectable air-free refilling mode
Refilling benefit	Prevents air pockets and internal pressure build-up

LUBRICANT COMPATIBILITY

Lubricant type	Grease
NLGI grade	Up to NLGI Grade 2
Lubricant additives	Compatible with standard industrial additives

ELECTRICAL SPECIFICATIONS

Supply voltage	12 V DC, 24 V DC & 230 V AC
Drive	Electro-mechanical DC motor
Sensor	Proximity Sensor for discharge monitoring
Power Connection	DIN connector
Other Connections	Waterproof vibration-resistant circular connectors
Protection	Overcurrent protection via controller

OPERATING CONDITIONS

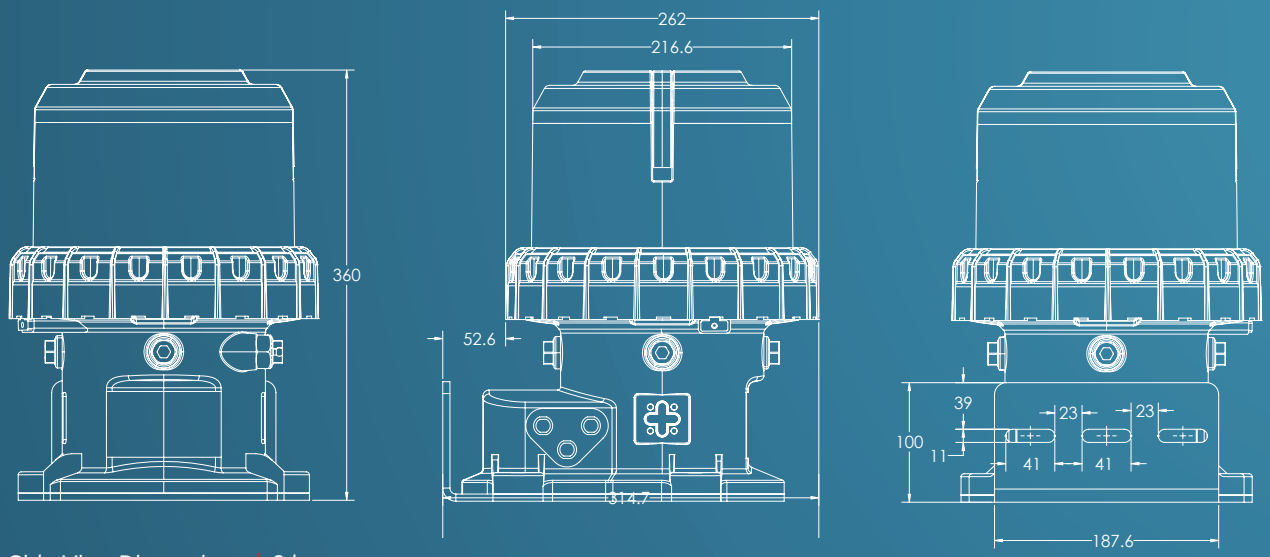
Operating temperature	-30 °C to +70 °C
Application	Industrial machinery and mobile equipment
Mounting	Vertical / Tilted mounting options
Protection	IP 65 (Applied)
Safety	Pressure Release Safety Valve (350 bar)

SYSTEM INTEGRATION

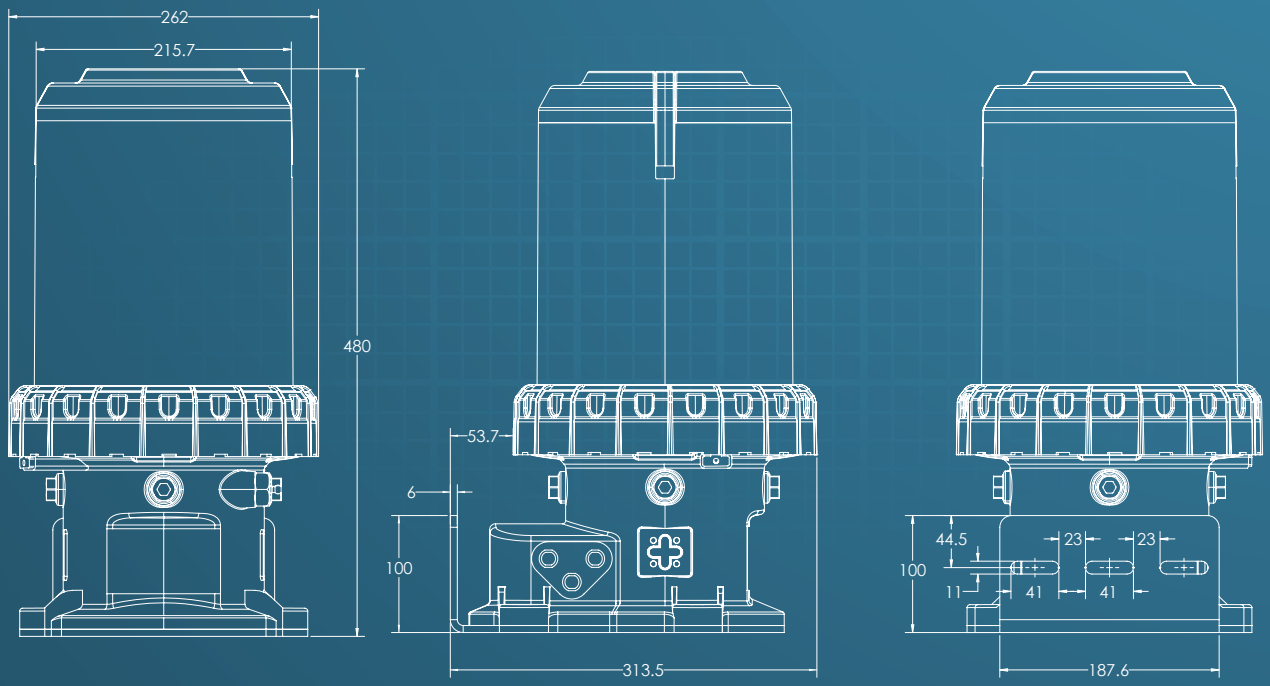
Divider compatibility	Progressive divider blocks
Controller compatibility	NEXTRA LINK PLUS, NEXTRA LINK PRO, NEXTRA LINK ULTRA, NEXTRA LINK ELITE
Connectivity	Via controller (Wi-Fi / GSM / eSIM)
Industry 4.0 Readiness	Available - Controller dependent

DIMENSIONS (IN MILIMETERS)

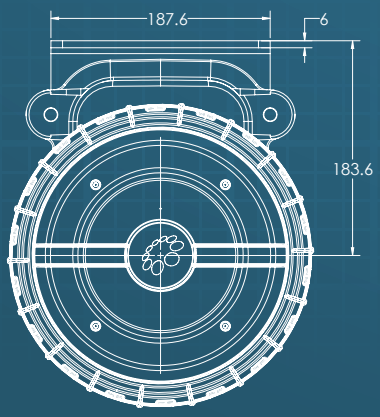
Side View Dimensions | 4 kg



Side View Dimensions | 8 kg



Top View Dimensions | 4 kg & 8 kg



TECHNICAL SPECIFICATIONS
NEXTRA SERIES CONTROLLER

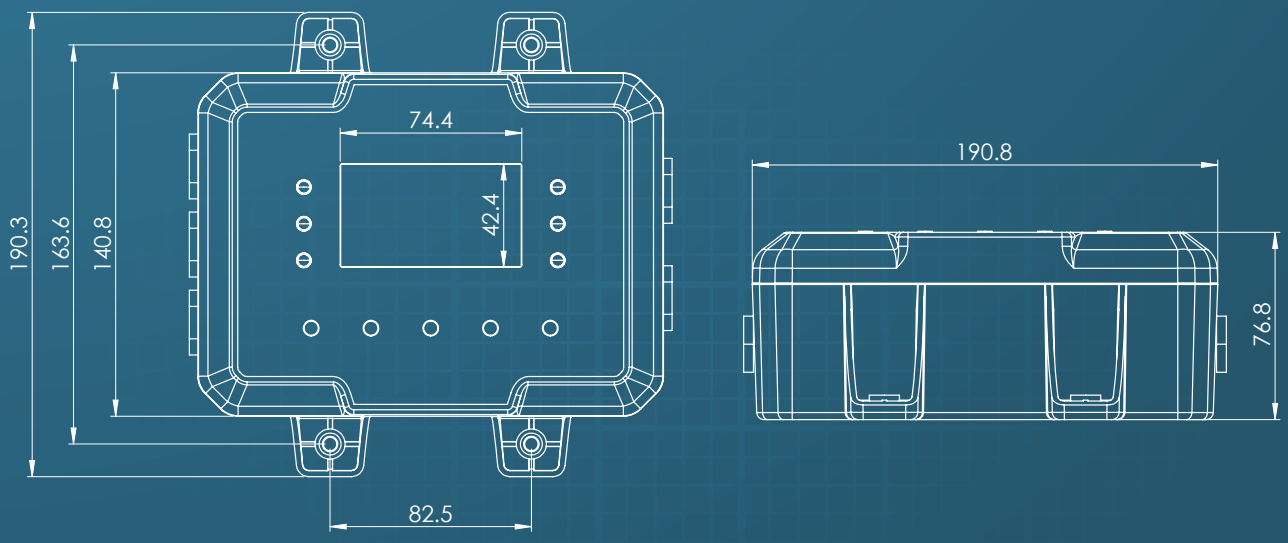
ELECTRICAL & FUNCTIONAL

Controller type	Progressive electro-mechanical lubrication pump
Control philosophy	Volume-based progressive pumping
Supported pump type	Memolub Nextra Series Pumps
Supply voltage	12 V DC / 24 V DC
User interface	Keypad with 7-segment / LCD / Remote (Screen) (variant dependent)
Output monitoring	Proximity sensor-based
Notification	Visual / LED / Audible (buzzer) / Remote (Screen)
Safety	Overcurrent and system fault protection
Protection	IP 65 (Applied)

CONNECTIVITY, SOFTWARE & INTERFACE SPECIFICATIONS

Communication modes	On-board / GSM / Wi-Fi / eSIM (variant dependent)
Data handling	Operational data logging & intelligent analytics
Remote access	Web portal and mobile application
Software model	Licensed software for third-party or private servers
Server compatibility	Cloud-based or customer-owned infrastructure
External connectors	Waterproof, vibration-resistant circular connectors
Internal connectors	Waterproof, vibration-resistant circular connectors
Connector advantage	Reliable signal integrity in harsh environments
Antennas	Industrial-grade - GSM / Wi-Fi / eSIM (variant dependent) antennas
Application suitability	Industrial and mobile environments

DIMENSIONS



ACCESSORIES

All MEMOLUB NEXTRA Series accessories are designed for seamless integration within the system architecture—ensuring reliable operation, installation flexibility, and sustained performance over time.

PROGRESSIVE DIVIDER BLOCKS

Accurate distribution for progressive lubrication systems

MEMOLUB NEXTRA Series progressive divider blocks ensure precise and sequential distribution of lubricant across multiple lubrication points. Engineered for reliable performance under high-pressure conditions, they guarantee that each outlet receives lubricant in the correct sequence.

This progressive distribution principle enables immediate fault detection, while integrated indicator pins allow for quick visual inspection.

In addition, sensor-based monitoring provides continuous system feedback—enhancing control, reliability, and maintenance efficiency.



MONOBLOCK DIVIDER BLOCKS

Distributor block with a fixed outlet configuration for compact and cost-effective installations.

Min. Pressure	Min. 20 Bar
Max. Pressure	Max. 350 Bar
Lubricants	Oil 46 - NLGI-2
Operation temperature	-40 °C to 200 °C
Discharge (per outlet)	0.2ml/cyc
Inlet thread	G1/8
Outlet thread	M10x1
Outlets number	6 - 22
Piston cycles	Max 200 cyc/min
Cycle Indicator Optional	Needle with Limit Switch
Material	Carbon steel or SS

MONOBLOCK ADJUSTABLE DIVIDER BLOCKS

Adjustable outlet volumes to fine-tune lubrication delivery.

Operating pressure	20~350 Bar
Lubricants	Oil 46 - NLGI-2
Operation temperature	-25 °C to 70 °C
Metering Quantity	Min. 0.08ml / cycle
Discharge (per outlet)	Max. 1.80ml / cycle
Inlet thread	G1/8
Outlet thread	M10x1
Outlets number	6 - 22
Material	Nickel-plated steel
Ajusting screw options	1.80 / 1.40 / 1.00 / 0.80 / 0.60 / 0.40 / 0.30 / 0.20 / 0.14 / 0.08 ml

ELECTRICAL WIRING HARNESS

Engineered for robust, reliable connections between pumps, controllers, and sensors, the MEMOLUB NEXTRA Series harness ensures fast installation and long-term signal integrity in demanding environments. Featuring IP65-rated protection, industrial-grade cables and connectors, and a plug-and-play architecture, it is built to withstand vibration, dust, and moisture.



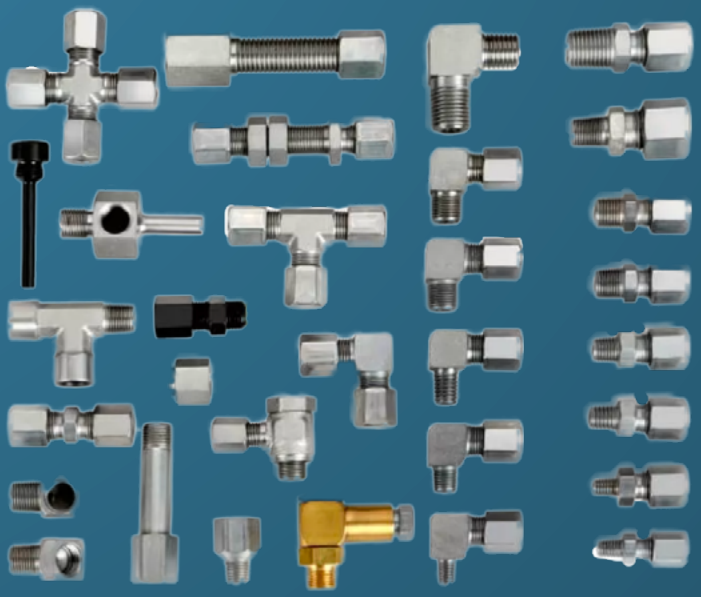


HOSES & TUBES

Engineered for safe and efficient grease transfer under demanding conditions, MEMOLUB NEXTRA Series hoses and tubes ensure system integrity and consistent lubrication performance in high-pressure and harsh environments. Available in PA12 for flexible, corrosion-resistant installations, braided hoses for dynamic high-pressure applications, and seamless carbon steel tubes for rigid, heavy-duty use.

FITTINGS & CONNECTORS

Precision interfaces for leak-free lubrication, the MEMOLUB NEXTRA Series fittings and connectors ensure secure connections across the entire system. Manufactured to industry standards, they deliver reliable performance, high-pressure resistance, and full compatibility with hoses, tubes, and divider blocks—while enabling easy, maintenance-friendly installation.





CUSTOMIZED MOUNTING ACCESSORIES

Engineered installation solutions for diverse applications, the MEMOLUB NEXTRA Series mounting accessories enable flexible and secure integration across various machines and layouts. Designed for stability, vibration resistance, and easy service access, they support reliable system installation in both standard and customized configurations.

- Pump and controller mounting brackets
- Divider block mounting plates
- Vibration-resistant supports
- Application-specific customized mounting solutions

A FULL RANGE OF ENGINEERED SOLUTIONS FOR AUTOMATIC LUBRICATION.

SINGLE POINT

YOUR FIRST STEP TO BETTER MAINTENANCE.

QUICKLUBER

5 BAR



AUTOMATIC MICRO LUBRICATION MADE EASY.

ONE SERIES **EM** SERIES

10 BAR



SINGLE AND MULTIPOINT

THE MOST VERSATILE RANGE OF LUBRICATORS AROUND, NOW INDUSTRY 4.0 READY!



CONNECT SERIES **VISIO** SERIES

HPS SERIES **EPS** SERIES

MEMORY SERIES **PLCD** SERIES

25 BAR

A HIGH PERFORMANCE, PATENTED SYSTEM POWERED BY COMPRESSED AIR.



DS SERIES

100 BAR

A NEW BENCHMARK IN CENTRALISED LUBRICATION WITH ONBOARD CONNECTIVITY IS HERE.



NEXTRA SERIES

350 BAR

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