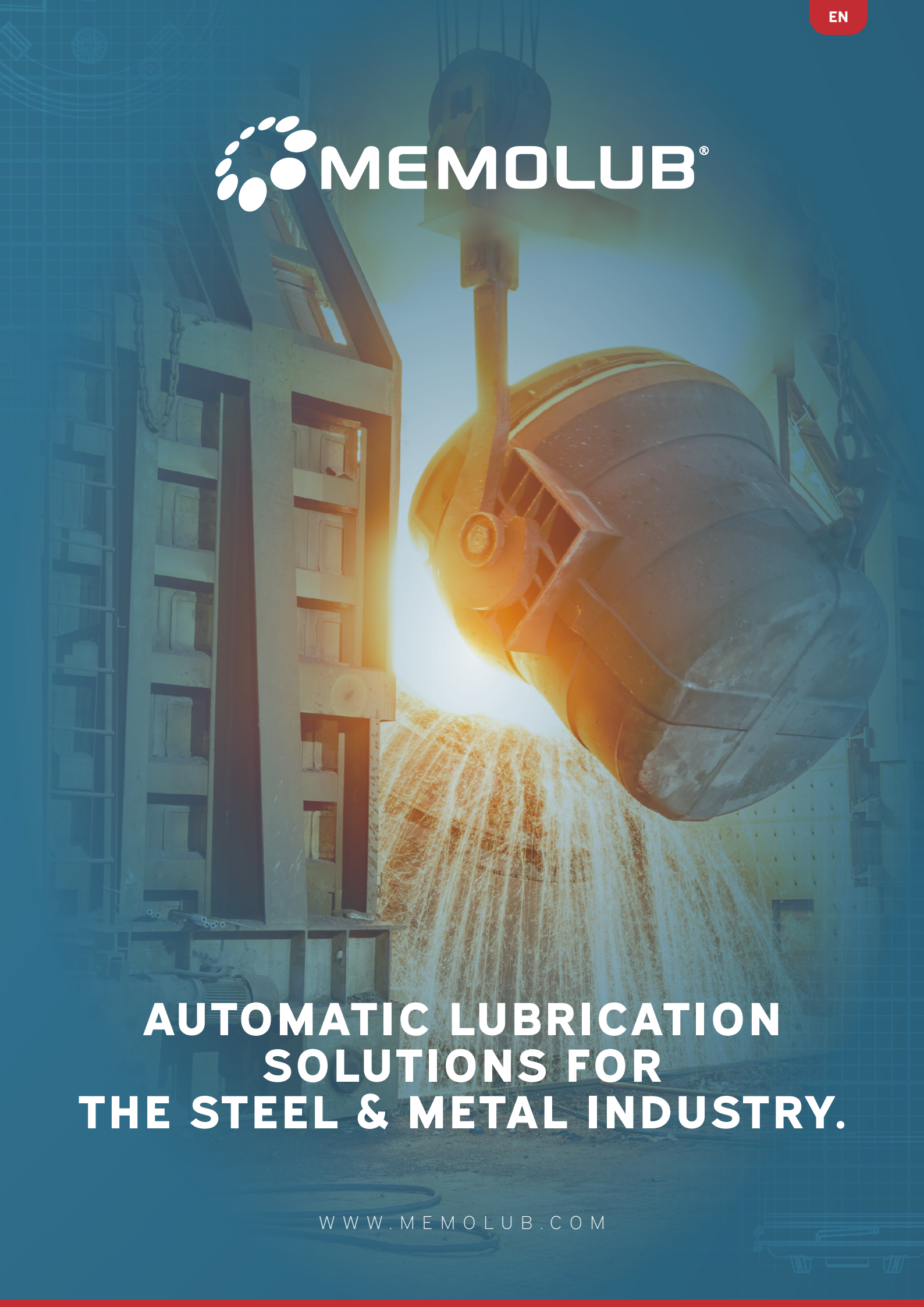
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MEMOLUB®



AUTOMATIC LUBRICATION SOLUTIONS FOR THE STEEL & METAL INDUSTRY.

WWW.MEMOLUB.COM

YOUR LUBRICATION CHALLANGES

Steel manufacturing demands unparalleled durability from equipment, operating under extreme heat, heavy mechanical loads, and constant exposure to scale, dust, and abrasive particles. The steel industry, in particular, presents significant challenges for both workers and machines. Dispersed equipment across large mill sites, tight staffing, harsh ambient conditions, and cost pressures continuously challenge plant operators and maintenance teams. These demanding environments result in hard-to-reach and dangerous lubrication points, extreme operating conditions (including high temperatures, heavy shock loads, abrasive dust, and vibration), and high personnel costs due to complex and widely dispersed machinery setups. Inadequate lubrication under these conditions can lead to several detrimental consequences, including:

EQUIPMENT AVAILABILITY

Steel production runs on tight margins where every hour of uptime matters. Automatic lubricators keep critical components consistently protected, maximising availability and reducing unplanned failures.



PREDICTABLE MAINTENANCE

Inconsistent manual greasing schedules make maintenance planning unreliable and reactive. Automatic lubrication delivers grease at fixed, precise intervals, turning maintenance into a predictable, plannable process.

HARD-TO-REACH LUBRICATION POINTS

Rolling mills, casting lines, and conveyors often place bearings in elevated, enclosed, or high-heat zones, making manual greasing slow and hazardous. Automatic lubricators reach these points reliably without exposing staff to risk.

COSTLY DOWNTIME

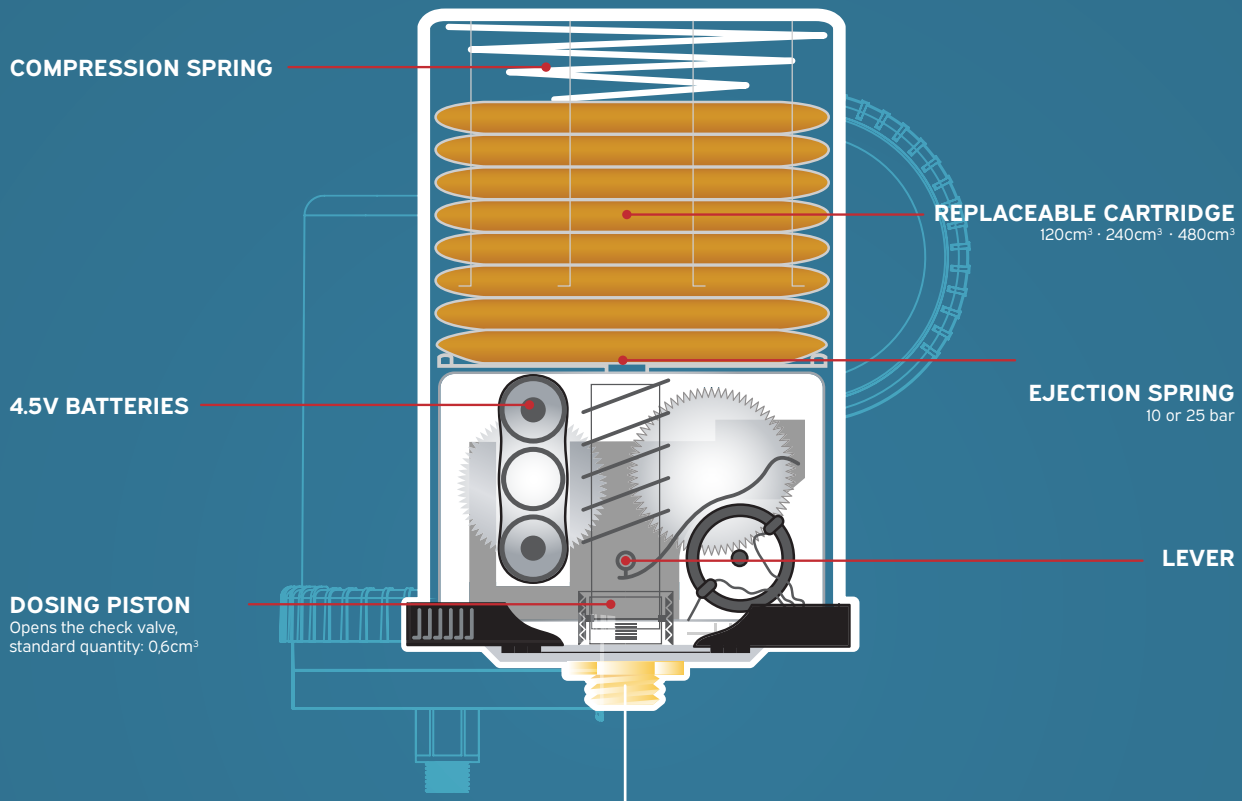
Stopping rolling mills or casting lines for manual greasing disrupts continuous production and drives up losses. Automatic lubricators deliver grease while equipment keeps running, avoiding unplanned stoppages.

HIGH OCCUPATIONAL SAFETY RISK

Manual lubrication near hot, heavy, and moving steel processing equipment puts maintenance staff in direct danger. Automated systems remove the need for personnel to work near active hazards.

A PROVEN TRACK RECORD

Memolub provides industry-leading single- and multi-point automatic lubrication systems, setting the benchmark for electro-mechanical lubricators in the steel industry. Engineered for reliable performance on rolling mills, conveyors, and continuous casting equipment operating under extreme heat and heavy mechanical loads, Memolub delivers precise, consistent lubrication to maximize equipment uptime, reduce maintenance, and extend the service life of critical components exposed to scale, abrasive dust, and high temperatures. Built to perform reliably in continuous, high-load operations and hard-to-reach or hazardous locations, Memolub helps ensure smooth, efficient, and uninterrupted operation across a wide range of steel manufacturing applications.





COKING AND SINTERING PLANT

TRANSPORTING, MIXING
Electric motors, conveyors, screw conveyors, vibrating screens, trough chain conveyors & tensioning stations

VENTING
Blowers & fans, electric motors



ROLLING MILLS, CONTINUOUS CASTING SYSTEM & SURFACE FINISHING

ROLLING, CONTINUOUS CASTING
Rolling systems, tensioning stations & electric motors

COATING
Conveyors & strip buffers

REELING &CUTTING
Coilers & shears



STORAGE AND TRANSPORT

TRANSPORTING
Sludge belt conveyor

STORING
Conveyors

SAFETY

Hight output pressure makes remote lubrication of difficult or dangerous lube points possible.

SAVINGS

Reduced lubricant consumption minimizes maintenance cost and total cost of ownership.

RELIABILITY

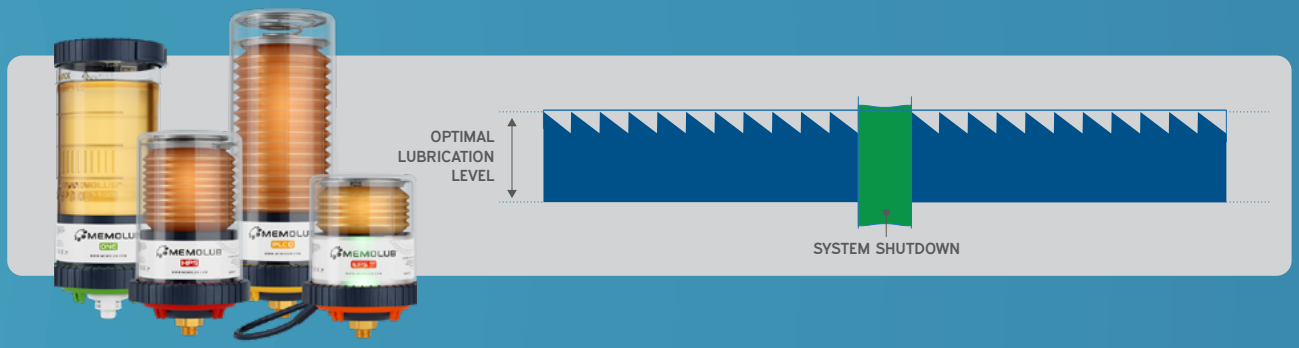
Patented technology delivers lubricant at the right place, in time and at right quantity.

SUSTAINABILITY

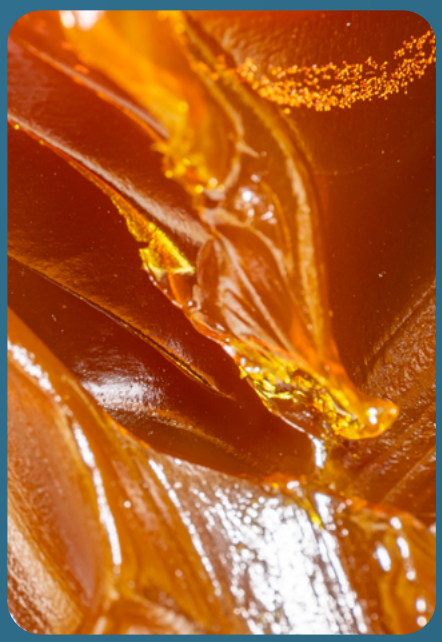
A robust and reusable unit that minimizes lubricant waste due to presise metering.

MEMOLUB'S PATENTED ADAPTIVE EJECTION TECHNOLOGY.

In all industries maintaining lubrication quality is just as important as protecting critical machine components. Excessive pressure in lubrication systems can lead to oil separation, reducing the lubricant's effectiveness and causing premature wear. Factors such as tubing diameter, lubricant viscosity, and ambient temperature influence back pressure, but the speed-to-pressure ratio during lubricant expulsion is the key determinant.



Unlike conventional automatic lubricators that force grease into the lubrication point in short, high-pressure bursts, MEMOLUB applies lubricant gradually and continuously. After each metered grease discharge, the system uses the interval before the next cycle to gently push the lubricant through the line and into the lubrication point. This ensures a constant, controlled supply of fresh grease, maintaining an optimal lubricating film while minimizing pressure fluctuations.



THE MOST GREASE-FRIENDLY LUBRICATION SYSTEM. EVER.

Grease is a blend of base oil and thickener. When subjected to constant or excessive pressure, the oil can separate from the thickener (oil bleeding), degrading the grease and potentially causing soap build-up, clogged lubrication lines, and reduced lubrication performance.

Unlike conventional automatic lubricators that keep grease under pressure or inject it in high-pressure bursts, MEMOLUB uses a non-pressurized reservoir and gradually advances the grease between each metered discharge. By eliminating pressure peaks, MEMOLUB preserves the grease's structure and performance, minimizes oil bleeding, and delivers a continuous, consistent supply of lubricant.

CASE STUDY

ENHANCING EFFICIENCY IN STEEL ROLLING MILLS.

At one of the largest steel plants in the world, the rolling mill serves as a cornerstone of the production process, passing metal plates through powerful rollers to reduce their thickness and transform them into thinner sheets that meet the precise specifications required for diverse industrial applications. Given its critical role, operators closely monitor the machine's parameters, since the rolling mill's optimal performance directly impacts both production efficiency and product quality.



The rolling mill's bearings faced significant challenges that hampered performance and drove up operational costs. High friction and wear were recurring issues, demanding frequent lubrication to maintain smooth operation. The intense pressure exerted during rolling generated heat that degraded lubricants quickly, requiring constant reapplication, while dust and other contaminants regularly entered the bearings, making lubrication essential simply to flush out impurities and preserve functionality. Together, these factors led to frequent maintenance, costly downtime, and increased risk for maintenance personnel.

To address these challenges, 12 equipped extensions, each fitted with 8 Memolub HPS units of 240cc capacity, were installed across the rolling mill. The adjustment process, completed over the course of a month, ensured precise lubrication across all critical points. The Memolub HPS system delivered consistent, automated lubrication that effectively reduced friction, heat buildup, and the impact of contaminants on the bearings, eliminating the need for frequent manual lubrication and enhancing the rolling mill's overall operational efficiency.

The results were substantial. Regular, precise lubrication extended the lifespan of components, reducing the frequency of replacements and minimising the need for manual intervention. This led to a significant decrease in maintenance downtime, enabling uninterrupted production and increased productivity. By mitigating excessive wear and tear, the Memolub HPS system also drastically lowered costs associated with spare parts and repairs. Reduced reliance on manual lubrication further enhanced workplace safety, lowering the risk of accidents and injuries among maintenance staff. Finally, the system's precision minimised lubricant waste and reduced energy consumption, contributing to a more sustainable and environmentally friendly operation.





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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