

PREVENTATIVE MAINTENANCE



## ENHANCING EFFICIENCY WITH THE SAL ELITE SINGLE-POINT LUBRICATOR

In the fast-paced machinery landscape, reliable and efficient lubrication is paramount for smooth operations and extended equipment lifespan. To address this need, ISO-Reliability Partners has introduced the SAL Elite single-point lubricator, a robust solution designed to revolutionise automatic lubrication in various industrial sectors, writes *Adriaan Roets*.

**A**t the heart of the SAL Elite system is its ability to provide consistent and precise lubrication to critical machine components, effectively reducing friction, wear, and premature component failure.

Manufactured in Germany, the SAL Elite is compact, robust, and highly versatile. It features an electro-mechanical drive with replaceable lube cups available in capacities of 60g, 120g, and 250g. Its versatility is evidenced in its ability to be mounted directly or remotely, catering to diverse application needs.

The unit is installed directly at the lubrication point on the machinery, such as a bearing, chain, or gear.

The system uses an electro-mechanical drive to release lubricant, which is gradually preset according to the application

requirements. Lubricant flows through a feed line or tube to reach the lubrication point.

"The SAL Elite single-point lubricator is ideally suited for automated equipment lubrication in confined spaces or high, hard-to-reach locations on any industrial equipment. The product has found great success in mining applications and for Process Plant and Steel production operations," says Craig FitzGerald, CEO of ISO-Reliability Partners.

### Features and benefits

The SAL Elite offers adjustable dispensing intervals ranging from a single month to a full year, empowering users to tailor lubricant release frequencies according to specific requirements.

"Automated lubrication allows the user to set the exact amount of lubricant to be

dispensed over a particular period. Settings are based on bearing size and rotational speed. The SAL Elite lubricator provides metered dispensing over one to 12 months," explains FitzGerald.


Moreover, the system's compatibility with various lubricant types, from greases to oils, ensures versatility across manufacturing, mining, automotive, and food processing industries.

It excels in lubricating critical components such as conveyor systems, pumps, electric motors, and fans, particularly in hard-to-reach or rotating machinery environments.

Some advantages of the SAL Elite are a reduction of friction, wear, and premature component failure.


"The single-point lubricator solves many maintenance-related issues around reliable lubrication. The basic rules of grease lubrication are the 5 Rs: the right product,

QUICK TAKE



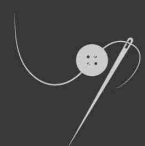
The SAL Elite single-point lubricator reduces friction, wear, and premature component failure with precise lubrication.

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It features an electro-mechanical drive and replaceable lube cups in 60g, 120g, and 250g capacities.

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Adjustable dispensing intervals range from one month to a full year, tailored to specific lubrication needs.

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Visual indicators with green, amber, and red LEDs simplify operational monitoring and maintenance.

gas or spring-driven lubricators,” he adds.

### Visual indicators

The system’s intuitive indicators simplify monitoring and maintenance processes. For operational status, green LEDs flash amber for lubricant refill alerts, and red signals indicate maintenance needs. This visual feedback mechanism enables quick identification of operational issues, facilitating timely interventions to prevent disruptions.

“The SAL Elite provides a straightforward visual interpretation of the unit’s operational state. Flashing LED lights can be viewed from over 100 m away, making inspection quick and simple,” says FitzGerald.

### Versatile uses

The system effectively addresses common challenges faced across various industries. For instance, the SAL Elite’s automated lubrication capabilities prove invaluable in the construction sector, where equipment often operates in confined spaces or high, hard-to-reach locations.

Likewise, in mining applications, the system has demonstrated notable success in process plants and steel production operations, where reliable lubrication is crucial for optimising equipment performance and minimising maintenance-related downtime.

“ISO-Reliability takes a hands-on approach with our customers to ensure skills and knowledge transfer with all our class-leading industrial solutions. We put the power into the customers’ hands and provide ongoing training and specialist attention,” says FitzGerald, describing how they assist in addressing client-specific needs when installing these units.

The SAL Elite system is versatile, widening its use across various industries.

“The single-point lubricator can be installed directly to the point of lubrication. In cases where falling objects may be a concern, the unit can be installed up to 2m away. To minimise the possibility of vibration, the lubricator can be supplied with a vibration cup designed to absorb vibration without any effect on the lubricator itself,” concludes FitzGerald. 🌐

applied at the right place, using the right amount at the right time, and having the right attitude towards maintenance,” says FitzGerald.

According to him, the SAL Elite lubricator solves the 5 Rs of lubrication, something which is impossible with time-based manual lubrication maintenance. The lubricator ensures that the right amount of lubrication is provided continually, thereby eliminating insufficient or inconsistent lubrication.

### Enhanced efficiency

The SAL Elite system can improve overall equipment reliability and operational efficiency by automating critical maintenance. By eliminating manual lubrication tasks, technicians can focus on other essential duties while the system ensures continuous and precise lubrication, thereby reducing downtime and extending component life.

“Lubrication best practices always recommend that the lubricant be selected according to OEM recommendation, application type, and environmental conditions such as heat, dust, or water. The SAL Elite can be used with greases up to NGLI 2 and, with a throttle and brush, can be used for thin lubricating oils for chain and sliding applications,” says FitzGerald.

He underscores that most bearings or lubrication points near rotating equipment, in confined spaces or at heights, are often never lubricated due to the risk or danger to maintenance employees.

“This equipment is often sacrificed for safety concerns. The SAL Elite single-point lubricator solves most lubrication challenges. Most importantly, the drive mechanism is electro-mechanical, meaning that the SAL Elite is battery operated and the drive unit does not place constant pressure on the bearing, as is the case with