



We have the Technology for your Lubricant



Advantages

- Customized configuration options
- Low lubricant usage due to precise dosages, mist free applications and no dripping of the lubricant
- Two lubricant supply lines are possible
- High degree of flexibility through single or grouped switchable valves
- User-friendly and fast positioning of the spray valves
- High production security level due to process reliability
- Sturdy constructed design with low maintenance

Continuous Spray System DSS

The Continuous Spray System (DSS) is a proven solution for band surface lubrication. The customized system configuration combines precise dosage application and minimal lubricant usage with the required dosing of band-strip coating. Our continuous spray system enables the end-user to spray low-fog applications with up to two selected lubricants.

Hence, it is best to reduce multiple applications of band lubrication costs for lubricants in order to prevent harmful substances or intensive cleaning from severely contaminating the environment.

Continuous Spray System DSS

Minimal Quantity Lubricant (MQL) incorporated with WERUCON®-Technology

Wherever there is a necessity to minimize friction through using a lubricant substance or a protective liquid preservative, the MQL is a cost-effective and environmentally-friendly process. The conversion of lubricants in a production process is often connected to companies with extremely high expenditures. WERUCON®'s technology is so highly advanced that the dosing units can be adapted to any company's preferred lubricant. Thus, companies of the metal-forming and machine-cutting industry must take into account that by setting up the latest state-of-the-art MQL dosing operation, it can be done without incurring high changeover costs. The MQL system considerably decreases lubricant usage in reproducible grease. In turn, this significantly reduces the cost and, more importantly, it reduces the burden on the environment.

WERUCON®'s dosing nozzles are so geometrically designed that with proper adjustments of the air-flow intensity, it does not allow any mist or fog to occur with many commercially available lubricants. Thereby, the work room's air is generally not contaminated with harmful respirable aerosol-particles.

Flexible Applications

The Continuous spray system (DSS) is designed for continuous lubrication of band strips and metal blanks, as well as for nipple fittings and roll forming. Correspondently, it provides an ingress lubrication operation for stamping, pressing and pulling processes that require a constant lubricant supply. Furthermore, the DSS is highly adaptable to customers' specified requirements.

Via the wide range of valves, adjustment settings are ready to be set or adjusted to the desired lubricant dosage. Two-sided lubrication is possible as well, for surface-coating protection and preservation. The spray valves prevent dripping, in order that the continuous spray cycle is also used in sensitive machining or manufacturing processes.

Simple Operation

The system's operation is carried out in the circuit cabinet. The lubricant feed or output pressure and spray intensity is read on the control display indicator. The exact and reproducible adjustment setting is executed via a precision-pressure regulator. All spray valves are interchangeable

individually or in groups. Should a second lubricant supply line be required, it is selected and activated by using a circuit switch. The spray valves have changeable or variable positioning. The user-friendly installation on the mounting bar has a scale that simplifies the conversion and maintenance operation or process.



MQL Advantages

- No changing of the lubricant is necessary
- No disposal cost for cooling emulsions
- No residue on work piece components, tools and machinery
- No cleaning is required
- No expensive coolant circulation system; drip pan, splash guard, filter, etc. are no longer needed
- Longer tool life-cycle
- Higher speed performances are possible
- Better surface quality and dimensional accuracy of the work piece components
- No air-pollution via toxic aerosols in the work area
- No dermatological hazards, such as coolant emulsions
- No environmental pollution, the lubricants are biodegradable



Customer Configuration Specifications

The basic construction of the DSS consists of a cabinet with a lubricant supply tank and a mounting bar that is attached to the desired selection of spray valves. To prevent contamination of sensitive components, a protective spray cabinet is available upon request. An additional option is available, a proportional pressure regulator that adjusts the lubricant's flow rate to the speed of the machine.

The spray valves have an integrated throttle to regulate the flow volume of lubricant output. Additionally, the high-quality nozzles can spray a surface range of up to 200 mm at different viscosities. Furthermore, the flat-spray nozzles guarantee a uniform, smooth, and reliable processing of lubricant applications.



Spray valve with fan nozzle



Lubricant Tanks / Container

Accessories

- Spray valves are available with either flat jet nozzles for surface spraying; or round jet nozzles for precise point spraying
- Spray cabinet: Custom designed per customer's specifications
- Lubricant tanks in sizes 10, 25, and 50 Liters
- Low and full switch indicator for the lubricant tanks
- Proportional pressure regulator
- Lubricant filter
- Maintenance Care Kit

Alternative Units

MDA

- Automatic dosing unit with up to 6 dosing pumps and 2 pulse generators
- Sturdy design construction with metal cabinetry
- Various configuration options for multiple industrial applications

MDB

- Dosing unit with a maximum of 2 dosing pumps and 2 nozzle connectors
- Lockable cabinet with a control panel
- Diverse industrial applications

KDE

- Compact unit with 1 dosing pump and up to 2 metering nozzles
- Direct mounting on machines, e.g. drills, mills, etc. is possible

	Specifications
Control Cabinet	<ul style="list-style-type: none"> • Metal construction • Max. 2 Precision air regulators for lubricant output pressure • Display indicator for output feed pressure and spray intensity • Selector switch for use of 2 lubricants • Selector switch/dial for spray valves
Lubricant Maintenance	<ul style="list-style-type: none"> • Max. 2 Stainless steel pressure tanks (10, 20, or 50 Liters) • Fine filter screen • Optional low level indicator switch
Spray-valves with Flat Nozzle Jets	<ul style="list-style-type: none"> • Unlimited quantity • Spray range up to 200mm per valve • Build-in flow rate throttle
Spray-valves with Round Nozzle Jets	<ul style="list-style-type: none"> • Unlimited quantity • Spray range up to /40 mm per valve • Built-in flow rate throttle
Mounting (Traverse) Rod	<ul style="list-style-type: none"> • Aluminium • Height and angular attachments • Rapid lateral adjustment • Build-in rulers for reproducible adjustable-settings
Control Activation	<ul style="list-style-type: none"> • Electric Control: Mono stable start signal for the metering unit 24 V/DC; 24 V/AC; 110 V/AC; 230 V/AC • Separate Control: Each dosing pump and nozzle can be individually activated or in groups
Compressed Air Supply Unit	<ul style="list-style-type: none"> • Compressed air (power) supply min. 4 bars; max. 7 bars
Cabinet Selection	<ul style="list-style-type: none"> • Standard model configuration



MDA



MDB



KDE

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WERUCON GmbH

WERUCON® is a leader in advanced metering technology that supplies special production machines for the automobile industry and the mechanical engineering service sector in the capacity of assembly and dosing technology, for Minimal Quantity Lubrication (MQL) of surface moistening production and precise dosing application of lubricant substances.

The strength of our company is a result of our solution-oriented engineering services combined with our ability to deliver expeditiously. We maintain plentiful stock of ready to operate, automatic devices and machines; as our products are designed and manufactured in-house.

The installation of WERUCON® machines is specifically customized to fit our customers' infrastructure. As an innovative, technological supplier of MQL, we work in partnership with manufacturers of lubricants who continue to set high standards; and are pioneers in the field of lubricant surface coating.

WERUCON® dosing technology stands for reliable and precise lubrication application in machine metal-forming and metal-cutting processing. Our micro-dosing pumps are used especially in companies where MQL is needed. With our dosing technology, the lubrication is virtually independent of the environment and is always reproducible.

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