

# Operating elements

## WK-Remote controller

All units of the Open Lubrication Systems (OLS) and Closed Lubrication Systems (CLS) are equipped with a remote control or interface. The parameters for all the lubrication systems can be adjusted via the remote control.

## Control via network interface

Our systems can communicate with your control systems via industrial standard interfaces such as Ethernet, Profinet, Profibus or Ethercat.



## Input-panel

Lubrication systems offer PLC-systems.



## Contact

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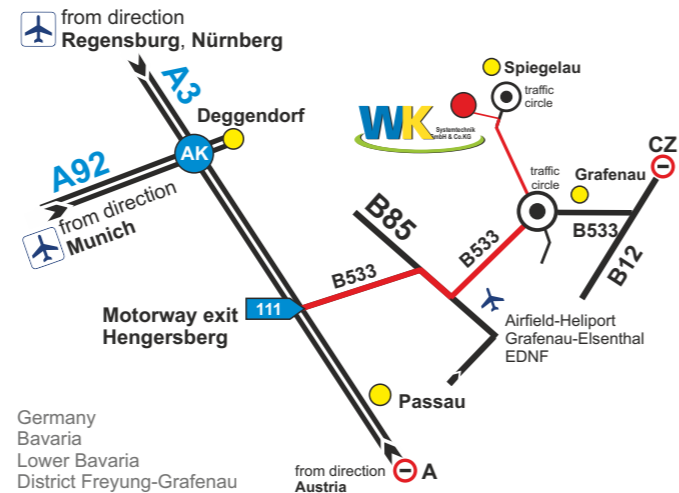
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a new  
dimension of  
cleaning



## Journey

National park  
Bavarian forest



Germany  
Bavaria  
Lower Bavaria  
District Freyung-Grafenau

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## LS-Line

## Coating- and preservation-technology

OLS-Open Lubrication System  
CLS-Closed Lubrication System  
ILS-Inline Lubrication System

a new  
dimension of  
lubrication

# Device technology

## Individual solutions

The Precision Lubrication Systems of the OLS/CLS series are used for high precision stamping and forming processes. WK Systemtechnik offers a variety of standard spray chambers as well as special spray chambers, open spraying points, tool lubrications and punch lubrication. Even if you need an individual application, we provide solutions for you. Do not hesitate to contact us with your special demand.

## Basic units and mobility

The base for the basic power unit which is manually movable is a seamlessly welded collection tray with two rollers and two brake rollers each. Therefore, all the necessary components can be absorbed during the application.

## Monitoring and control

Each medium circuit contains an oil filter, a minimum level control and a flow monitoring device including an oil consumption meter which measures the quantity applied/ consumed.

## Our know-how - your advantage

- ✓ An energy-efficient and environmentally friendly technology
- ✓ An easily maintainable construction of the system
- ✓ A robust mechanical engineering
- ✓ A reduced noise level
- ✓ A safe and user-friendly operation
- ✓ Up to three separate media circuits
- ✓ Maximum oil viscosity 400 mm/s<sup>2</sup> bei 20°
- ✓ Lubrication width ranging from 60mm to 1000mm
- ✓ Special applications

## OLS - Open Lubrication System

The OLS "Open Lubrication System" can be used as an oil mist free selective strip lubrication system and as a non-contact spraying system with a lubrication chamber without suction system. The OLS-Spraying-System is a programmable minimum quantity system which makes use of the high precision gear metering technique. Thus, the high-precision dosing of forming lubricants into the production process is possible.

## ILS - Inline Lubrication System

Our in-line coating systems can be integrated into almost any existing manufacturing process. Challenge us with your task.

### Technical Data

- Dimensions (W x D x H)  
560mm x 560mm x 1283mm
- 110 - 240 Volt 50 - 60 Hz
- Maximum oil viscosity  
20 mm<sup>2</sup>/s at 20°C
- Operation via remote control and/or
  - Ethernet
  - Profinet
  - Profibus
  - Ethercat
- Up to three separate media circuits
- Speed-related control
- Lubrication width from 20 to 1000mm
- Documentation of oil consumption
- Option: Cleaning Cycle
- Special applications



### Touchless lubrication

As contactless spraying system the OLS minimum quantity spraying system with its reliable gear pump technology is combined with a closed spray chamber. Therefore, two-line nozzles which are integrated in the spray chamber are supplied with lubricant as well as with spray air.

All process parameters such as air pressure, flow, tank level etc. are constantly monitored. In case of failure, the system is stopped.



OLS-lubrication chamber 120mm

## Beölungs- und Konservierungsverfahren Lubrication- and preservation-procedures



### Touchless lubrication with dust extraction

The spraying systems of the CLS series are used for high-precision coating tasks in combination with a spray chamber and a vacuum suction. The application of the medium takes place in a homogenous oil mist in a closed spray chamber. The product to be coated is moved at a constant speed in the spray chamber. One part of the oil fog covers the product and the other part is sucked off and reprocessed by the vacuum to be reused.

The homogenous oil mist is generated by two-line nozzles which are supplied on the one hand with spray air and on the other hand with lubricant. Each pump outlet only supplies one nozzle. All process parameters such as air pressure, flow, tank level and vacuum suction are constantly monitored.



CLS-lubrication chamber with dust extraction

## CLS - Closed Lubrication System

The CLS "Closed Lubrication System" is a non-contact spraying system with a lubrication chamber in a closed circuit. This environmentally friendly technology guarantees a constant and even application of forming lubricants.

The high-precision gear metering pumps are driven by gearbox step motors to dose the flow rate also in µl. Each forming lubricant circuit also disposes of its own spray air circuit including pressure monitoring to ensure finest fog with different viscosity for highest requirements.

### Contact lubrication/gel

The medium is injected into the product via nozzles.

### Technical Data

- Dimensions (W x D x H)  
500mm x 603mm x 1250mm
- 110 - 240 Volt 50 - 60 Hz
- Maximum oil viscosity  
400mm<sup>2</sup>/s at 20°C
- Operation via remote control and/or
  - Ethernet
  - Profinet
  - Profibus
  - Ethercat
- Up to three separate media circuits
- Speed-related control
- Lubrication width from 60 to 1000mm
- Documentation of oil consumption
- Special applications
- Option: Cleaning cycle
- Option: Two circle dust extraction

