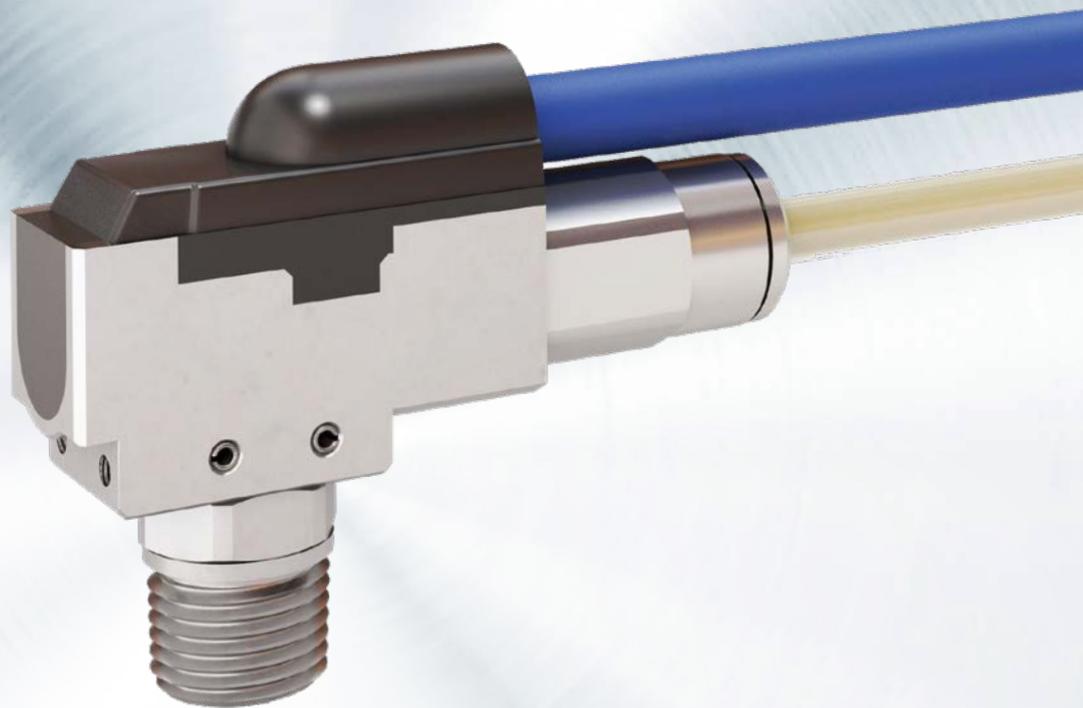


GREASE-SYSTEM

OIL-SYSTEM

LINES

SERVICES



End Point Monitor

Monitoring in real time



LUBE
KAA-EUROPA

End Point Monitor (EPM)

Detects the cause **BEFORE** a damage can arise!

So far it was only possible to monitor whether the lubrication points of a machine have been supplied with enough lubricant by checking indirectly (checking the line pressure). Disturbances in lubrication could sometimes only be detected too late, which then could lead to time- and cost-intensive repairs.

If for example a ball screw of a 5-axis CNC-machine has to be replaced due to a lubrication failure, the costs simply for the assembly works and the machine downtime can be estimated to range around 7.000€ till 8.000€. If you add the costs for a new spindle, the total cost estimate would be a 5-figure amount.

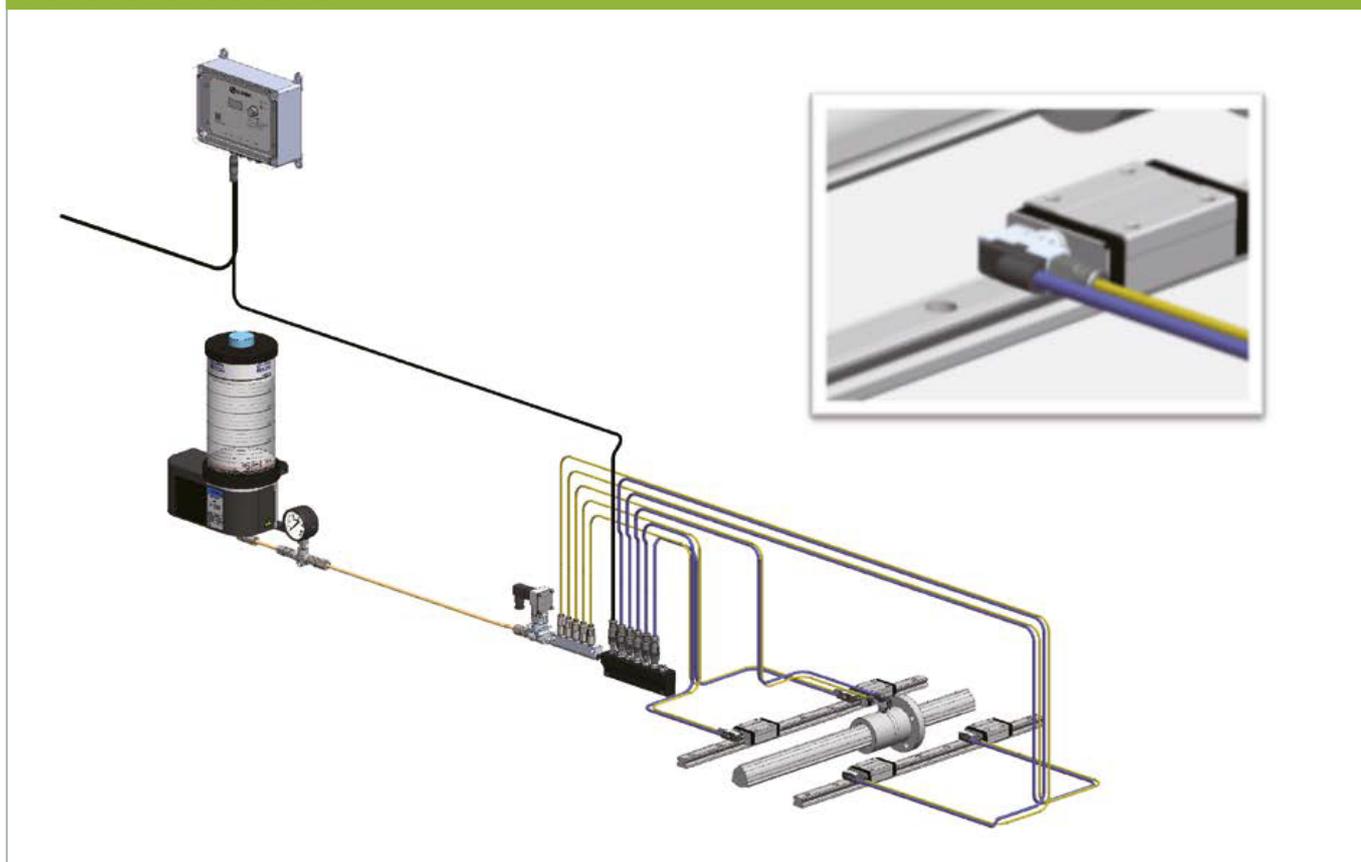
With the End Point Monitor LUBE henceforth offers a solution, that proactively prevents such damages: The new sensor-supported system monitors the lubricant supply in real time right where it is important - directly at the lubrication points.

If a shortage occurs, EPM immediately alarms through the central CNC-machine control of the machine and time remains, to react accordingly before damages on machine parts can develop.

Advantages

- + **Control directly at the lubrication point**
- + **Monitoring in real time**
- + **Connection to the machine control**
- + **Implementable for every lubrication point**
- + **Reliable alarm function**

Functional Schema



Application areas

Categorically the new „End Point Monitor“ systems can be used on every lubrication point, but its use is recommended especially at the hard-to-reach parts of your machine, such as linear guides and ball screws.

Specifications

Applications	(Linear) guides, ballscrews, bearings
Contact	NC
Rated voltage	DC3 – DC24V
Rated current	5mA
Used grease	LHL X-100
Metering valve	MU (discharge amount 0.05 to 0.5 ml)
Environment temperature	0°C – 40°C
Standard	IP67 (Get planned), RoHS2
Sensor	K-type thermocouple
Measurement rate	0°C – 90°C



Operation chart

