



SL Pro – Safe Lubrication Process

The new Air+Oil unit presented by MWM Schmieranlagen, sets new standards in Minimal Quantity Lubrication of high speed/power bearings for spindles in machine-tools.

The integration of patented optical sensors, digital pressure sensors and advanced PLC functions, allow 100% control of all important parameters. Visual and electronic feedback and simple error signaling is available to the machine control, to assure reliable MQL during start-up and 100% Safe work.

MVF-A Metering Mixer with integrated optical sensors (Pat.) meters precise droplets of oil, starting from 10mm³, into an adjustable air flow.



This A+O flow is continuously monitored by precise opto-electronic sensors which can detect changes in oil quantities and air-flow and immediately signal to the PLC in the SL Pro unit.

The MVF-A unit can be delivered in different versions from 1 to 6 outlets.

The **digital air-pressure sensors** are directly mounted on the MVF-A and allow to set minimum and maximum levels.



In case of under or over pressure the sensors signal visually (color change) and with an electronic signal to the PLC.

This ensures monitoring both obstructions and interruptions in the A+O line between the SL Pro unit and the spindle bearings. Thus completing the 100% Safe Lubrication Process.

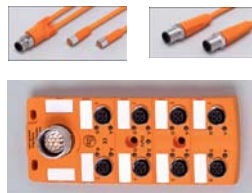
Touch-Screen PLC Control

LED backlighting with 3 colours: green, orange and red: to signal normal, warning and alarm.



Simple user-friendly programming of prelub and lubrication cycles. Two control output, with two failure level. Control can be connected to NC of machine.

Connecting technology



All sensors with M12 connectors with switching status LED (function display operation), main connector M23 for easy maintenance.

SL Pro Series

Safe Lubrication Process
new AIR+OIL Unit

Minimal Quantity Lubrication

AIR+OIL
minimal quantity lubrication
completely assembled
ready for use

Special features:
IFX optical sensors
digital air/pressure sensors
Touch/Screen PLC

*Checking and monitoring
very small lubricant flows*

Precise lubrication for high-speed spindles

MQL application for:

- High speed bearings
- High speed gears
- Linear guides
- Ball circulation screws

Minimal Quantity Lubrication

