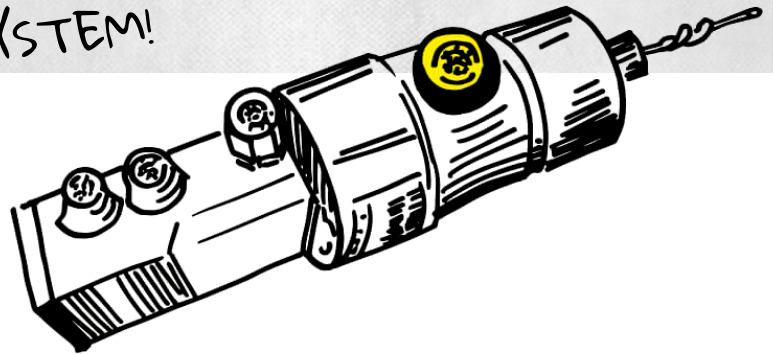




**REALISING HIGH SPEEDS IN HIGHLY  
DYNAMIC PROCESSES**

**bielomatik**  
**SCHMIERTECHNIK**  
**DropsA**

*EASY WITH THE  
MQL 2-CHANNEL SYSTEM!*



## **MINIMAL QUANTITY LUBRICATION (MQL) SYSTEMS IN METAL CUTTING**

### **CHARAKTERISTICS**

- Separate feeding of oil and air through spindle via rotating lance
- Oil and air are transported together close to the process at the tool cutting surface

### **FEATURES**

- Oil feed can be calibrated (independently of speed)
- Maximum oil quantity independent from airflow of feeding channel of tool
- Very quick reaction (0.1 sec.), oil quantity change at tool center point immediately active
- MQL oils with higher viscosity up to max. 100 mm<sup>2</sup>/s
- Applications from 4 bar up to 10 bar of compressed air

### **APPLICATION AREAS**

- Nmax approx. 40.000 rpm spindle speed
- Machine centers (frequent tool change)
- Machine tools at high production rates
- Tools with "high" oil consumption
- Demanding cutting processes such as deep hole drilling or thread cutting
- Set oil quantity can be checked

### **ADVANTAGES**

- Dry chips, dry parts, dry machine
- Higher cutting speeds, reduced processing times
- Better surface qualities due to pure lubricant
- Longer tool life (no thermal shock stress)
- Reduced invest cost for new machines

### **SUSTAINABILITY ASPECT (compared to coolant):**

- approx. 50% less CO<sub>2</sub> -Emission
- up to 90% less water consumption
- up to 98% less hazardous waste



*OUR VARIOUS SYSTEMS  
MATCH WITH CUSTOMERS  
REQUIREMENTS.*

**MQL 1-channel and 2-channel  
systems, Mobile Lubrication  
Unit for aerospace industry**

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