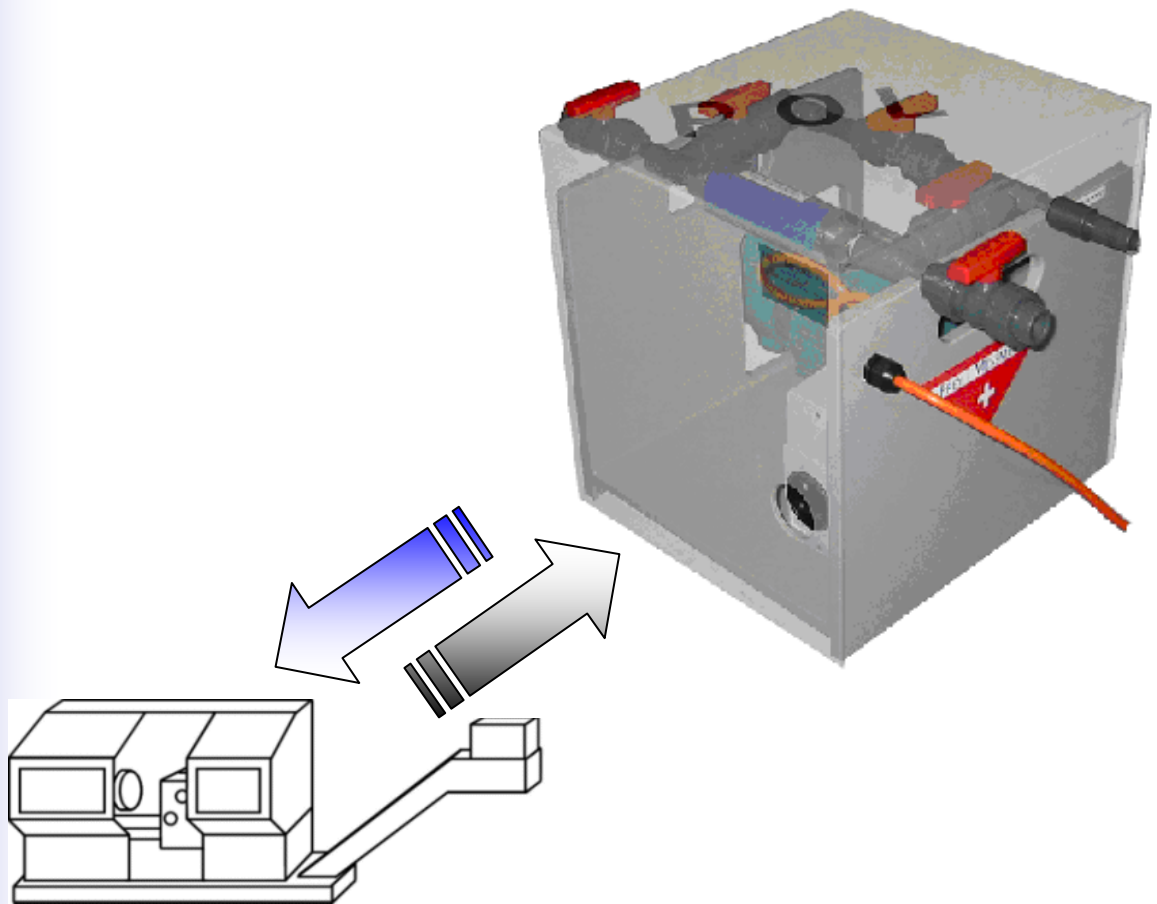


FM-Polarizer



The use in machine tools results in:

- **substantial cost saving**
- **improved protection of the environment**
- **elimination of bad smell**
- **less skin irritation**
- **clean working condition**

Various sizes and executions available

Emulsions usually consist of 4 – 8 % concentrate and 92 -96% water. The FM-Polarizer has its effect on the 92 - 96 % water and polarises it in a way to prevent a docking on of foreign particles.

The polarised water is very soft and decollates hidden fungi and bacteria deposits as well as other sediments in the machine tools. Furthermore the very small droplets of liquid help to reduce the forces in the machining process resulting in improved surface roughness of the work pieces.

The use of the FM-Polarizer yields the following benefits to the user:

Cost-saving

- reduced down time of machine tools
- reduced cleaning efforts

Reduction of the coolant consumption

- improved rinsing performance
- less carry out with chips, etc.
- less changes of the emulsion

Less contamination

- no clogging of the measuring system
- cleaner tools and gauges

No clogging of the pipe works

- biological material
- lime scale
- residues of emulsion

Reduced biocide use

Less additives

- emulsifiers
- stabilizers
- defoamers

Better surface quality

Less consumption of filtration material

- improved filter cake

Simpler coolant monitoring (refractometer)

Improved filtration

- no smearing up
- better sedimentation

Better elimination of tramp oil

- easier removal of oil
- less clogging

Reduced disposal costs

Cleaner work pieces

Improved environmental protection

- reduced waste volume
- longer life of tools
- less carry out (in washing and machines and phosphate installations)

Reduced generation of fume



FM-Polarizer on coolant cleaner MINI-Quicksep

Aspects of occupational medical

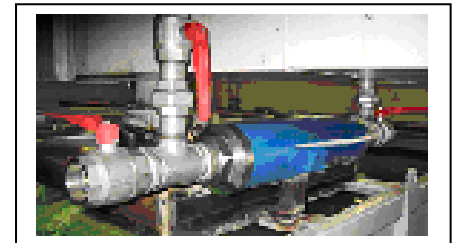
- less skin irritation due to less biocides and additives
- less skin damages
- reduction of the potential of hazards
- better observation of the operating process

Cleaner working environment

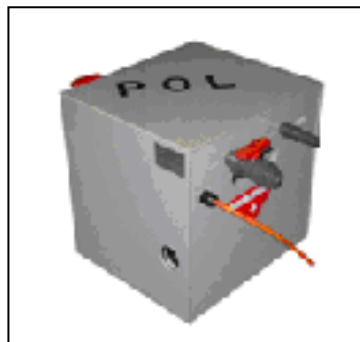
- less oil residues
- less danger of accident

Reduced annoyance of smell

- fume
- bacteria



FM-Polarizer on centralised system



FM-Polarizer as independent unit



„water“ becomes water again

The FM-Polarizer are available in various sizes and set ups :

- For direct installation in existing coolant systems in machine tools or in centralised systems.
- As independent aggregate with integrated pump for remote applications.
- With bypass as accessory for easier cleaning (for the Quicksep coolant cleaning units).
- For direct installation on Quicksep coolant cleaning units with integrated magnetic separator.