Industry
Application Examples

Machine Tool
- Machining center
- Grinding machine
- Turning and milling machine
- Sawing machine

Forming Machine
- Drawing, straightening and forming press
- Automatic punching press
- Chamfering

Injection Moulding Machine

Parts Cleaning Machine
- Cleaning machine
- Degreasing machine
- Preservation machine
- Decoating system

Production Systems
- Flushing oil
- Filling
- Leakage test rig

Special Requirements of the Industry
The industry of industrial manufacturing equipment has very special requirements for the hydraulic and lubricating oil system:
- Short cycles with extremely high volume flow pulsation
- Compact design and high power density
- Use of standardised filter (e.g. DIN 24550)
- Operation often in explosive atmospheres (ATEX)
- Permanent operational readiness
- Maximum machine availability and safety
- Preliminary planning maintenance intervals and low maintenance costs

Solution ➞ Stat-X®
By using the innovative Stat-X® element technology, you can demonstrably reduce electrostatic discharges and high oil charges even in extremely critical systems with excellent fine filtration.

This results in:
- Maximum safety for employees and machine due to proven reduction of electrostatic arcing
- Reduction of oil degradation products (Varnish) and longer oil service intervals
- Safe operation in explosive atmosphere
- Reduction of unplanned downtimes
- Reduction of maintenance costs and longer maintenance intervals

Electrostatic Discharges
Dangers from discharges

Burned filter elements
Plugging of filter elements
Discharges outside of the system

Interference of electronic components
Increased formation of oil degradation products (varnish)
Deflagrations in the tank, burned breather filters

A safety concern for equipment operators and system components
If discharges should occur external of the system, arcing can occur in open space which presents a health hazard to system operators as described in the ‘Technische Regel für Gefahrstoffe’ (TRGS 727) Guidelines.

For example, when static electricity results in discharges on the order of 12 mm in length (energy > 350 mJ) a hazard for employees exists as described in TRGS document.

Our solution eliminates static electricity at the source thereby preventing serious safety hazards to equipment operators and system components.

Safety of the working environment is jeopardized!