

**1. Environmental friendly, fire resistant hydraulic fluid (EcoSafe ®)
Heavy-duty Gear Oils (EcoGear ®), Turbine Oils PAG´s special Greases and
Lubricants**

For the heavy-duty industry in general and its hydraulic systems, for big temperature ranges, by potential danger of fire,

- Metal producing, Rolling mills, Forging, Casting
- Heavy-duty- and mobile equipment for construction, tunneling and mining,
- Power plants (coal, hydro, nuclear), Wind mills
- Off-shore, ship building, harbor equipment, ship locks
- tested and released from all the leading hydraulic component producers

Advantages:

- 100% synthetic, Polyether polyol bases with complete saturated molecule structure
- Water free, hydrolytic stabil, no sludge and varnish, no asit formation
- Environmental friendly, readily biodegradable, non toxicity, WDC 1 (WGK 1)
- Very temperature stable, no thermal degradation, high viscosity index for a wide temperature range
- Seal material friendly, material compatibility, excellent lubricity and high performance
- long life time also under extreme conditions, very service friendly

**2. Special Machines, Automatisaton Equipment, Assembly and Transport
Technology,
Handling Systems, Round Table Index Technic,
Staking Machines, Lock- and Key Production Machines,
Measurement- and Test Machines for Die-Cast- and Plastic-Injection-Molding
Tools**

Machinery for O-Ring, Seal and Snap Ring Assembly

- Concept and Design
- Software design
- Production controls
- CAD/CAM programming
- Arrangement from the concept to design and production to the final release
- special coated powder for softmagnets and high densified formed parts (up to 7,6)

3. Tools and Molds

- for diecast up to 40 to
- for plastic molds up to 6 to
- for stamping and segment cutting tools up to ca. 1 m

further services:

- Rapid prototyping in various technologies
- CAD/CAM production
- thermal- and flow analysis
- advising and coaching

4. Aluminum / Magnesium / Zinc / Castings for Production Parts being made in:

- Sand casting
- Gravity casting / Permanent molding and low pressure, bottom casting
- Pressure die casting, Squeeze casting,
- SSM / Rheo / Thixotropic/Vacural

We offer all Parts and Technologies also Rapid Prototyping, Samples, Design and Calculation, Tooling, Moulds, Measurement equipment that can measure and record during casting.

5. CNC Machining and Assembly

- all kinds and volumes and metals
- casted parts, forged parts

6. Molded Plastic Parts

in all common Materials, high-tech, glass fibre reinforced.

- with or without inlays
- multiple material techniques
- multiple color techniques
- clean room production for electronic and medicine parts also rapid prototyping, samples, tooling etc.
- with inner gas pressure

7. Formed sheet metal parts, Assembly

- Size up to 4 x 2,5m, Pressure force up to 1200 to
- Robotic controlled lines for sheet metal, welding and spot welding
- All kind of coating technology
- Prototyping and toolshop

8. Formed Parts

- cold / hot / orbital formed
in Steel, Iron, SS, Copper, Brass

9. Formed Powder Metal Parts (Sinter)

- formed parts
- softmagnetic parts
- special coated powder for softmagnets and high densified (up to 7,6) forms parts
- parts in stainless steel