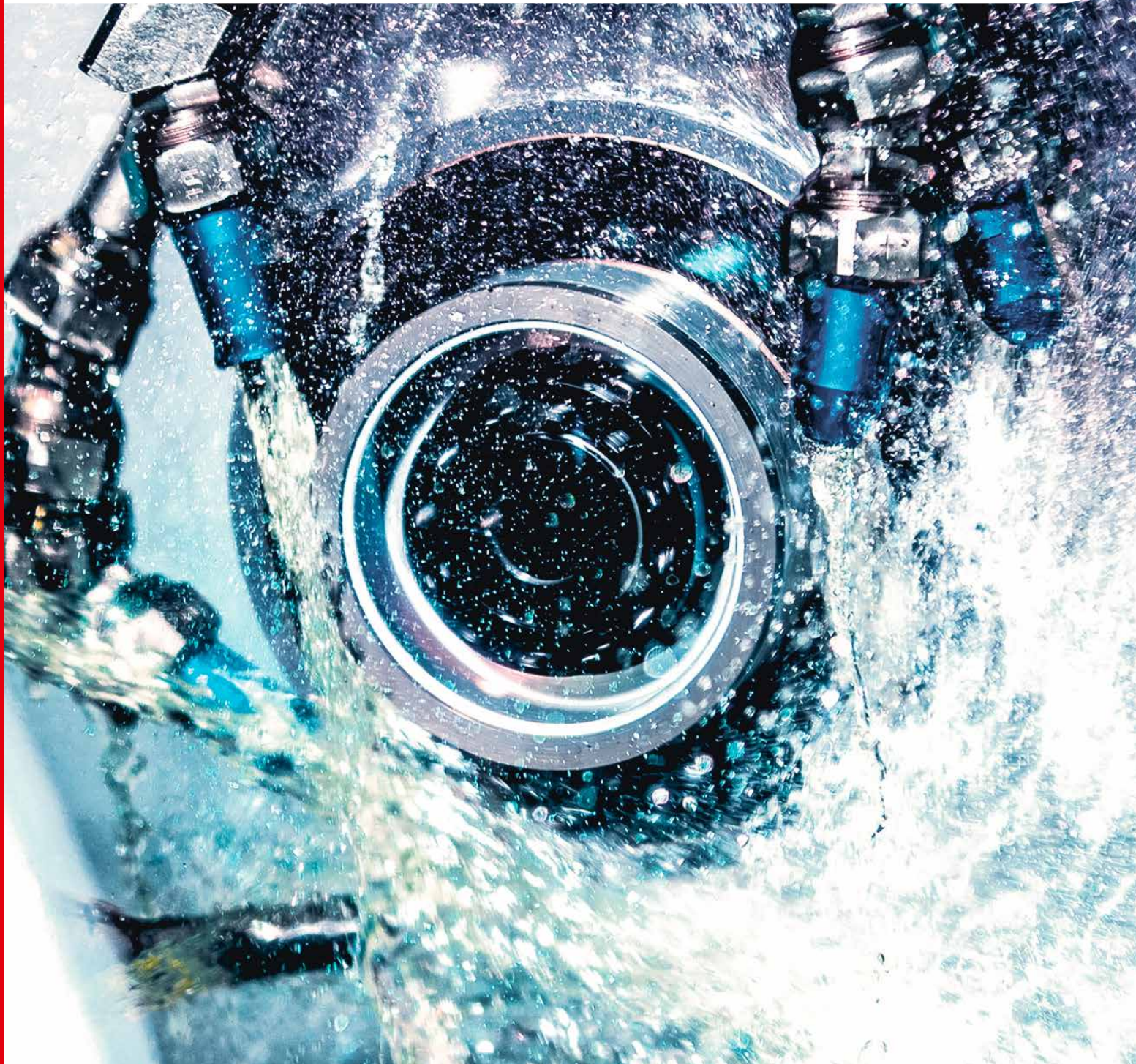


Grinding Fluids

High-performance lubricants for grinding processes





Your specialist for grinding fluids

For over 130 years, oelheld has combined tradition with true pioneering spirit. As the world's first company to develop grinding fluids based on GTL and PAO, we continue to set benchmarks in lubricant technology to this day.

We see ourselves as your central problem solver: working closely with leading machine manufacturers and universities, we develop fluids precisely tailored to your specific manufacturing processes – even for the most demanding applications.

Philipp Storr *Martin Vorn*



Fluids precisely matched to your processes



In-house research, development and production



Personal contact with a dedicated representative and regular laboratory service



MADE IN GERMANY



HUTEC - Human Technology

Innovation for People, Nature and Machines
Hutec is more than a guiding principle – it is the core of our product development. We combine cutting-edge technological performance with a responsible approach to resources, machinery and people.



Safety for people

Our products are REACH-compliant, low-emission, and free from aromatics and heavy metals. For most products, dermatological approvals are available, confirming excellent skin compatibility.



Protection for the environment

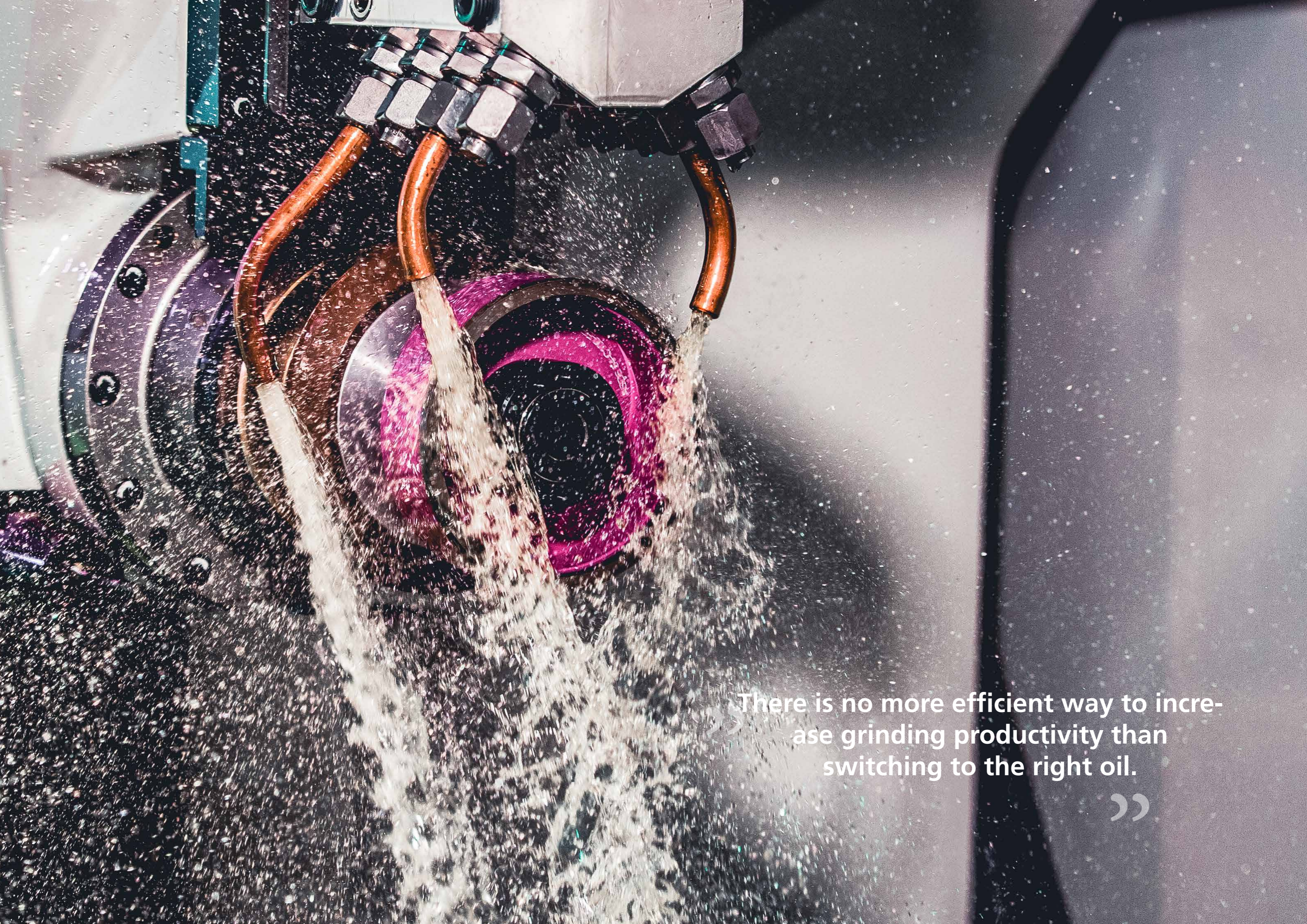
We rely on sustainable raw materials and environmentally friendly production processes in state-of-the-art facilities. The result is resource-efficient products that minimize the ecological footprint.



Preserving the value of your machine


Each product is thoroughly tested for compatibility with machine components. This ensures long service life and maximum process reliability.





There is no more efficient way to increase grinding productivity than switching to the right oil.





Maximum productivity through the right grinding fluids

In modern manufacturing, cutting fluid is not a secondary factor but a decisive lever for your economic efficiency. oelheld's high-performance grinding fluids are designed to master even the most extreme requirements.

Your advantage with oelheld:

- Higher efficiency: Shorter grinding cycles and reduced tool wear
- Superior quality: Excellent surface finishes and high process stability
- Future-ready: Our products comply with the world's strictest chemical regulations

In close cooperation with leading machine manufacturers, we develop fluids precisely tailored to your requirements. Leverage our expertise for your competitive advantage – contact us for individual consultation!



Increased productivity

Higher feeds, shorter cycle times: our GTL and PAO technology maximizes your output and accelerates every process.



Optimized surface finish

Precision at the micrometer level: achieve mirror-smooth surfaces without grinding burn – even with the most complex geometries.



Extended grinding wheel life

Protect your grinding wheels and extend costly dressing and replacement intervals. This sustainably reduces your operating costs.



Reduced oil consumption

Minimum carry-out, maximum efficiency and outstanding service life. Low evaporation keeps the oil in circulation, protecting both your budget and the environment.

Conclusion

By choosing the right grinding fluid you do not only save time and avoid many concerns, but also reduce costs significantly.



Manufacturer approvals

Our products are specifically designed and approved for use with:

Machine tool manufacturers



Filtration system manufacturers





Quality made from the finest ingredients

For our base oils, we rely on premium-quality hydrocracked oils, GTL (gas-to-liquid) oils and PAO oils (polyalphaolefins), as well as ester oils that meet the highest quality standards. Through the targeted additivition of these base oils, we create tailored formulations optimized for each specific application.

Base oils



Additives

Base oils



It is not the individual additive alone that matters, but the way they work together. As a pioneer in the development of grinding oils, we know that only the optimal combination of active components transforms a good base oil into a high-performance product.



There are many additives; the art lies in blending the right additive in the right amount, in the right sequence and at the right time into the base oil in order to perfectly tailor the formulation to the respective grinding process.

Tool grinding

Base oil: Hydrocrack – HC

Basic

Product name	Kin. visc. 40°C (mm ² /s)	Flash point (°C)	Density at 15°C (g/cm ³)	Materials	Character
ToolGrind HTG 650	6,0	>150	0,80	Steel, carbide, PCD, cermet and ceramic	Economy
ToolGrind HTG 888	8,5	>150	0,83	Steel, carbide, PCD, cermet and ceramic	Economy
ToolGrind TC-X 620	6,2	>150	0,82	HSS, carbide, PCD, CBN, cermet and ceramic	Comprehensive additive package
ToolGrind TC-X 1000	10	>200	0,83	HSS, steel, gray cast iron, carbide, PCD, CBN, cermet and ceramic	Comprehensive additive package
ToolGrind HSS-X 900	8,8	>150	0,83	Steel materials such as HSS, PM steel and medical steel	Protection against grinding burn and burr formation

Base oil: Gas-to-Liquid – GTL

Advanced

Product name	Kin. visc. 40°C (mm ² /s)	Flash point (°C)	Density at 15°C (g/cm ³)	Materials	Character
SintoGrind TC-X 630	6,3	>150	0,81	HSS, carbide, PCD, CBN, cermet and ceramic	High performance product
SintoGrind TC-X 1000	9,8	>200	0,81	HSS, steel, gray cast iron, carbide and PCD	High performance product
SintoGrind TC-X 1500	15	>200	0,82	HSS, steel, gray cast iron, carbide, PCD, CBN, cermet and ceramic	High performance product
SintoGrind GTG 650	6,5	>160	0,81	HSS, carbide, PCD, CBN, cermet and ceramic	Latest Generation of Additives: Performance and Cleanliness
SintoGrind GTG 1000	9,8	>200	0,815	HSS, carbide, PCD, CBN, cermet and ceramic	Latest Generation of Additives: Performance and Cleanliness
SintoGrind HSS-X 650	6,5	>150	0,8	HSS, steel, PM steel and medical steel	Protection against grinding burn and burr formation
SintoGrind HSS-X 1400	14	>200	0,81	HSS, steel, PM steel and medical steel	Protection against grinding burn and burr formation

Base oil: Polyalphaolefine – PAO

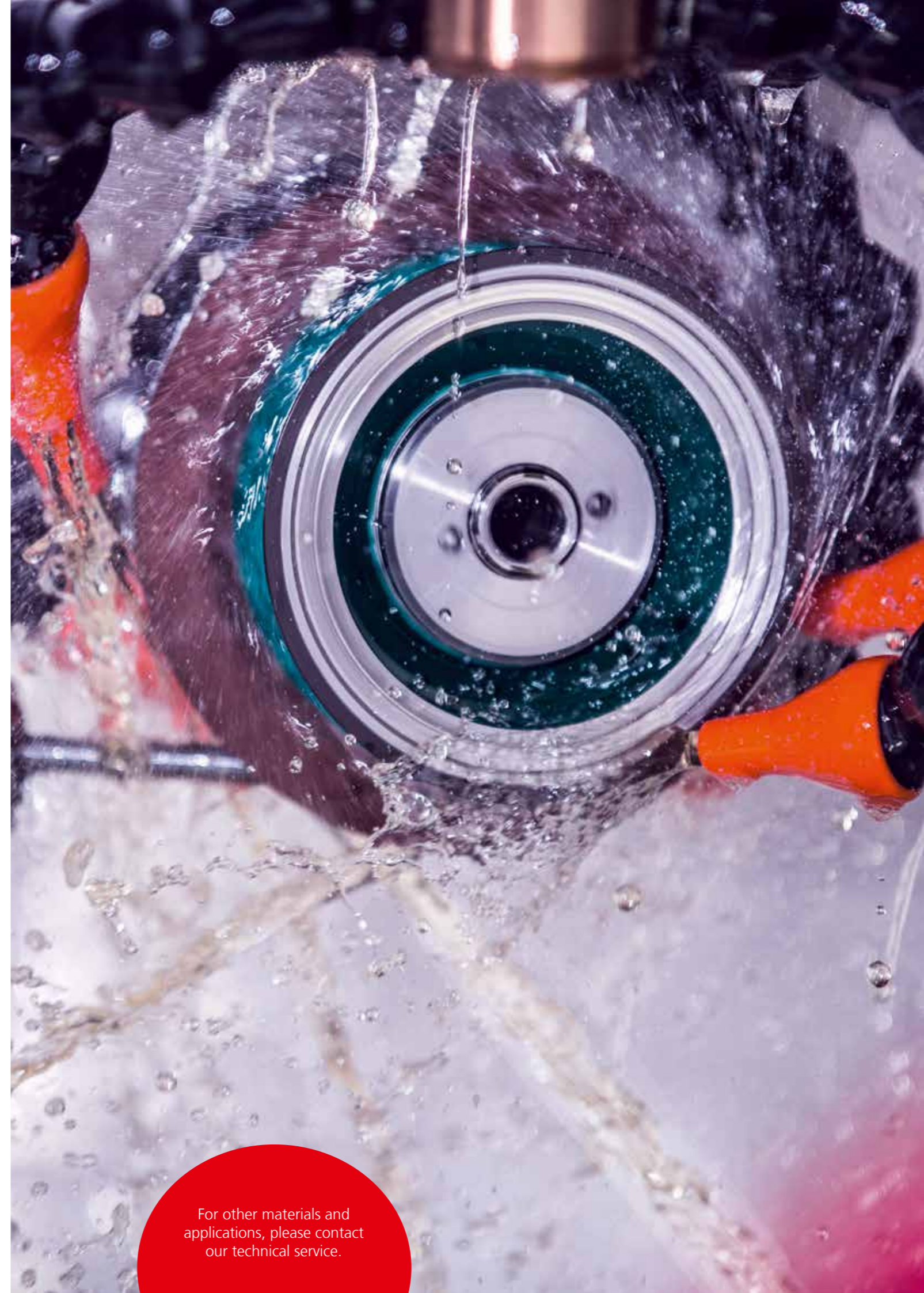
Pro

Product name	Kin. visc. 40°C (mm ² /s)	Flash point (°C)	Density at 15°C (g/cm ³)	Materials	Character
SintoGrind TTK	5,3	>150	0,8	Carbide and HSS	High-end applications, medical technology
SintoGrind TTS	7,1	>150	0,81	Carbide and HSS	High-end applications, medical technology
SintoGrind IG 540	5,4	>150	0,8	Carbide, HSS, CBN, PCD, cermet and ceramic	High-end applications
SintoGrind MP 830	8,3	>150	0,82	Carbide, HSS, steel, PM steel and medical steel, CBN, PCD, cermet and ceramic	High-end applications

Base oil: Ester– EST

Pro

Product name	Kin. visc. 40°C (mm ² /s)	Flash point (°C)	Density at 15°C (g/cm ³)	Materials	Character
SintoGrind ETG 840	8,4	>200	0,863	Carbide, HSS, CBN, PCD, cermet and ceramic	No labeling required, very low mist formation, high flash point



For other materials and applications, please contact our technical service.



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Production grinding

Base oil: Hydrocrack – HC

Basic

Product name	Kin. visc. 40°C (mm ² /s)	Flash point (°C)	Density at 15°C (g/cm ³)	Materials	Character
DiaMond 80	2,0	>82	0,78	Steel, aluminum, carbide and non ferrous	Finishing and coordinate grinding
DiaMond 100	2,5	>106	0,82	Steel, aluminum, carbide and non ferrous	Finishing and coordinate grinding
DiaMond 120	3,6	>114	0,82	Steel, aluminum, carbide and non ferrous	Finishing and coordinate grinding
DiaGrind TTK 105	2,5	>100	0,82	HSS, carbide, PCD, CBN, cermet and ceramic	Profile and surface grinding
DiaGrind SDD 100	2,6	>100	0,827	Steel and cast alloys	High performance oil for a wide range of applications
DiaGrind IN	8,5	>150	0,85	Nickel based alloy	Aerospace engineering
DiaGrind KSB 1100-B	8,8	>150	0,84	Non-ferrous metals up to highly alloyed chromium-nickel steel	High performance oil for a wide range of applications
DiaGrind 535/5	5,5	>120	0,83	Unalloyed to highly alloyed steel	Honing, grinding and lapping
DiaGrind 535/15	15	>160	0,85	Steel	High performance oil for a wide range of applications
DiaGrind 535/25	25	>180	0,85	Unalloyed to highly alloyed steel	High performance oil for a wide range of applications

Base oil: Gas-to-Liquid – GTL

Advanced

Product name	Kin. visc. 40°C (mm ² /s)	Flash point (°C)	Density at 15°C (g/cm ³)	Materials	Character
SintoGrind GMH 600	6,3	>150	0,81	Hochlegierten Stählen, Vergütungsstählen, Einsatzstählen und Keramiken	Honing, grinding and lapping
SintoGrind GSC 820	8,2	>150	0,83	Unalloyed to highly alloyed steel	High performance oil for a wide range of applications
SintoGrind 535/10	11,7	>200	0,82	Unalloyed to highly alloyed steel	High performance oil for a wide range of applications
SintoGrind HSS-X 650	6,5	>150	0,80	Steel, HSS, PM steel and medical steel	Honing, grinding and lapping
SintoGrind HSS-X 1400	14	>200	0,81	Steel, HSS, PM steel and medical steel	High performance oil for a wide range of applications

Base oil: Polyalphaolefine – PAO

Pro

Product name	Kin. visc. 40°C (mm ² /s)	Flash point (°C)	Density at 15°C (g/cm ³)	Materials	Character
SintoGrind ZO	5,7	>150	0,81	Zirconium oxide and ceramic	Medical technology and wear protection
SintoGrind SI	5,4	>150	0,81	Ceramics, silicon, glass and sapphire	Medical technology and wear protection

Base oil: Ester– EST

Pro

Product name	Kin. visc. 40°C (mm ² /s)	Flash point (°C)	Density at 15°C (g/cm ³)	Materials	Character
DiaGrind X	9,6	>200	0,87	Unalloyed to highly alloyed steel	No labeling required, very low mist formation, high flash point



Your strategic problem solver

In modern manufacturing, cutting fluid is not a by-product, but a decisive factor for your economic efficiency. oelheld's high-performance grinding oils are designed to master even the most extreme requirements.

- **Comprehensive Service**

We don't just sell products – we solve challenges. By closely integrating our technical field service with in-house analytical expertise, we support you as a strategic partner right from the start.

- **Why oelheld is your problem solver?**

Direct support from a dedicated local contact who understands your processes and supports you with expertise and hands-on assistance.

- **High-end analytics**

Using state-of-the-art laboratory technology, we identify root causes rather than just symptoms. This allows us to systematically optimize your manufacturing processes.

- **Knowledge as a competitive advantage**

Our continuous transfer of knowledge between laboratory and practice flows directly into your process optimization and into the development of future products.

Contact us for your individual all-round service!



Seminars / Training courses

Throughout the year, oelheld offers free seminars that provide practical guidance on the correct handling of grinding oils. This ensures optimal application and maximum performance in daily operations.

The seminars take place at the oelheld GmbH training center. Afterwards, participants have the opportunity to take part in a guided plant tour.

Registration is possible at any time, and oelheld also offers customized training sessions for larger groups.

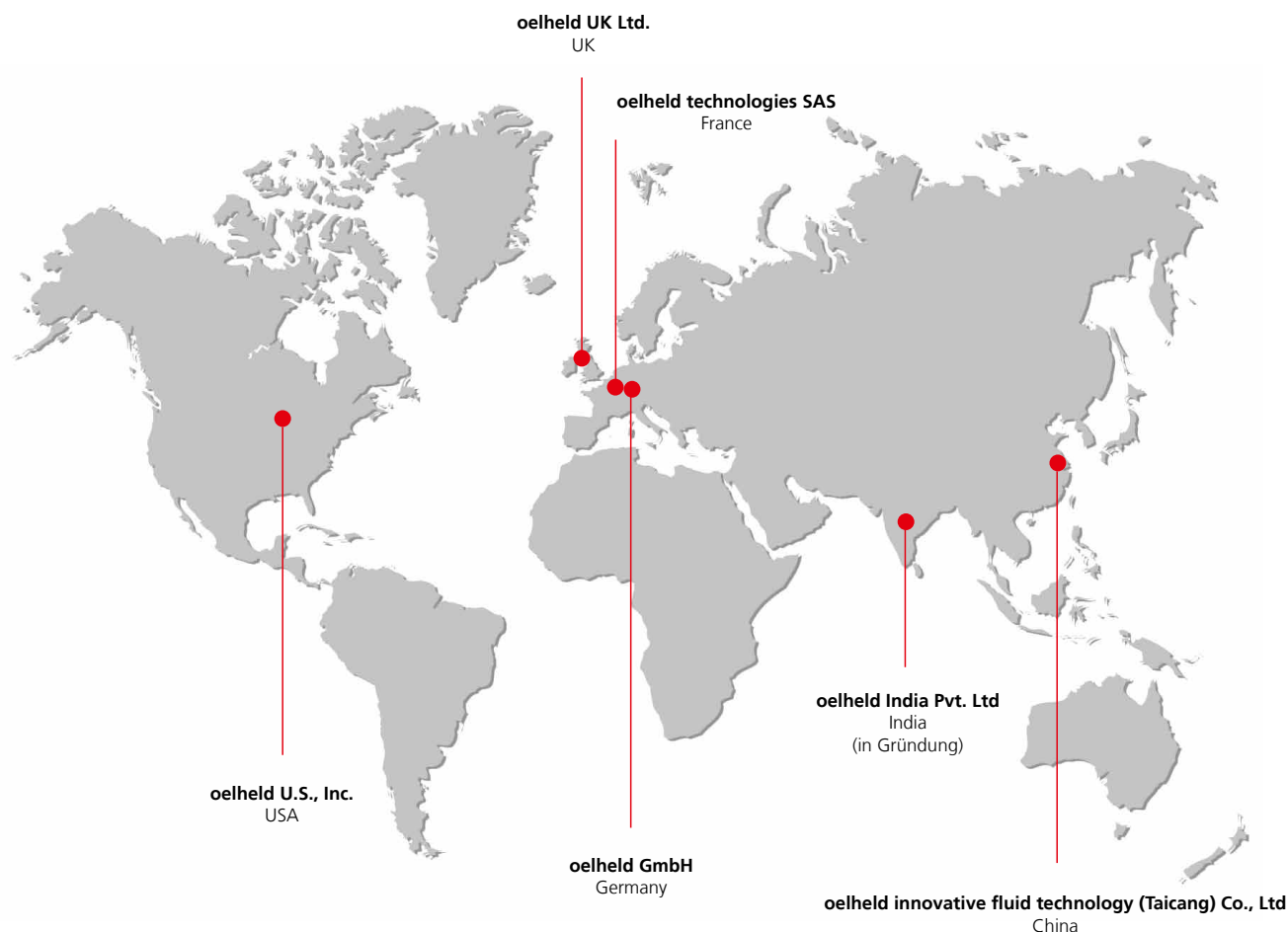
Registration:

All current dates can be found on our website:
www.oelheld.com/en/service/seminars/

We look forward to welcoming you!



High-tech products for machines – worldwide!



Call us – we'll be happy to advise you!



oelheld[®]
innovative fluid technology

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