

## DiaGrind series

Your standard for more productivity!





Philipp and Martin Storr • Managing Directors

## Your partner for metalworking fluids

oelheld is a medium-sized company, which has more than 130 years of tradition and experience. Since the foundation in 1887 by Carl Christian Held, oelheld has become an established specialist for lubricants. Partnerships, research, and human resources technology have grown as a valuable tradition of which we are proud of.

Numerous customers and machine manufacturers along with national and international universities have partnered with us to develop high quality lubricants. Through this cooperation we are able to focus intensively on meeting and adjusting to specific requirements on a wide range of different manufacturing processes. Our laboratories are equipped with state-of-the-art analytical equipment and numerous application testing systems that guarantee today's demanding requirements, and many of tomorrow's ever changing new standards.

**„Innovative product development, strengthened by continuous quality control and comprehensive customer service, is the key to the success of our products.“**



## Human Technology

### Innovations for man, environment and machines

Hutec is our main focus in the development and production of our products. It is also our mission statement in our use of resources and at oelheld always presence.

#### What does this mean?

- REACH requirements are fulfilled
- Skin reviews and approvals available for most products
- Low emission and aromatics free / low aromatic products
- Products free of heavy metal
- State-of-the-art production facilities
- Environmentally friendly production processes
- Products are tested for compatibility with machine components
- Sustainability in the selection of raw materials
- Environmentally friendly and resource-saving products







## Advantages of the DiaGrind Series

oelheld has earned a reputation for its proven, unrivaled high-end metalworking fluids, which are designed to meet even the toughest requirements with flying colors. The engineers and technicians of our R & D department are equipped with state-of-the-art machine tools to continuously improve the performance of our metalworking oils. The industry's growing need for increased productivity and cost efficiency makes it necessary to regularly optimize the performance of existing metalworking fluids.

The products of the DiaGrind series have been developed in response to these challenges and new materials. The high-performance products are available in various viscosities to optimally cover a wide range of applications.

oelheld pursues a continuous improvement strategy and stays in close cooperation with leading machine tool manufacturers. Our goal is to strengthen our customers' competitiveness through our metalworking oils which offer shorter machining times, less tool wear and better surface quality.

Incidentally, oelheld's metalworking oils are among the safest products for people, nature and machines and meet the strictest chemical laws in the world.

# Advantages

- Meets all requirements of chemical regulations around the world
- Best possible occupational safety
- Recommended by numerous machine manufacturers
- Increased productivity
- Increased lifetime of grinding wheels and cutting tools
- Highest surface quality
- Outstanding machine cleanliness
- Excellent air release properties
- Good filterability
- Outstanding longevity and low top-up requirements
- Absolute production reliability under harshest production conditions
- Low evaporation rates
- Unique multi-functionality
- Reduced tool wear
- Significant reduction of grinding burn and burr formation
- Maintenance-free
- Free of chlorine and heavy metals
- Low-foaming
- High flash points

Our products are especially developed for the use on following machines:



**Gleason**



**LIEBHERR**



# Product overview

## DiaGrind series

### DiaGrind 535/5

Applications: Honing, rolling, milling, grinding

Technical facts	data	testing method
Density at 15°C (g/cm <sup>3</sup> )	0,83	ASTM D 7042
Kin. viscosity at 40°C (mm <sup>2</sup> /s)	5,5	ASTM D 7042
Flash point (°C)	>120	DIN EN ISO 2592
Corrosive effect on copper	4	EN ISO 2160

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### DiaGrind 535/10

Applications: ID/OD grinding, gear grinding, profile grinding, cutting, turning, deep-hole drilling

Technical facts	data	testing method
Density at 15°C (g/cm <sup>3</sup> )	0,85	ASTM D 7042
Kin. viscosity at 40°C (mm <sup>2</sup> /s)	10	ASTM D 7042
Flash point (°C)	>150	DIN EN ISO 2592
Corrosive effect on copper	4	EN ISO 2160

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### DiaGrind 535/15

Applications: ID/OD grinding, gear grinding, gear hobbing, gear shaping, gear shaving, flute and thread grinding, surface and profile grinding, honing, milling, turning, deep-hole drilling, broaching

Technical facts	data	testing method
Density at 15°C (g/cm <sup>3</sup> )	0,85	ASTM D 7042
Kin. viscosity at 40°C (mm <sup>2</sup> /s)	15	ASTM D 7042
Flash point (°C)	160	DIN EN ISO 2592
Corrosive effect on copper	4	EN ISO 2160



## DiaGrind 535/25

Applications: Gear hobbing, gear shaping, gear shaving, milling, turning, deep-hole drilling, broaching

Technical facts	data	testing method
Density at 15°C (g/cm <sup>3</sup> )	0,85	ASTM D 7042
Kin. viscosity at 40°C (mm <sup>2</sup> /s)	25	ASTM D 7042
Flash point (°C)	180	DIN EN ISO 2592
Corrosive effect on copper	4	EN ISO 2160

## DiaGrind KSB 1100-B

Applications: ID/OD grinding, milling, turning

Technical facts	data	testing method
Density at 15°C (g/cm <sup>3</sup> )	0,84	ASTM D 7042
Kin. viscosity at 40°C (mm <sup>2</sup> /s)	8,8	ASTM D 7042
Flash point (°C)	>150	DIN EN ISO 2592
Corrosive effect on copper	1b	DIN EN ISO 2160

## Add-on product – ControXid 1642

ControXid 1642 is a ready-to-use corrosion protection fluid for cooling circuits based on synthetic, water-soluble corrosion inhibitors. It is very low-foaming and offers reliable protection against corrosion along with high resistance to fungi and bacteria.

Technical facts	data
Density at 15°C (g/cm <sup>3</sup> )	1,036
Kin. viscosity at 20°C (mm <sup>2</sup> /s)	3 - 4
pH-value	ca. 9,2
Refraction (Brix)	16,2 %

For other materials and applications please contact us.



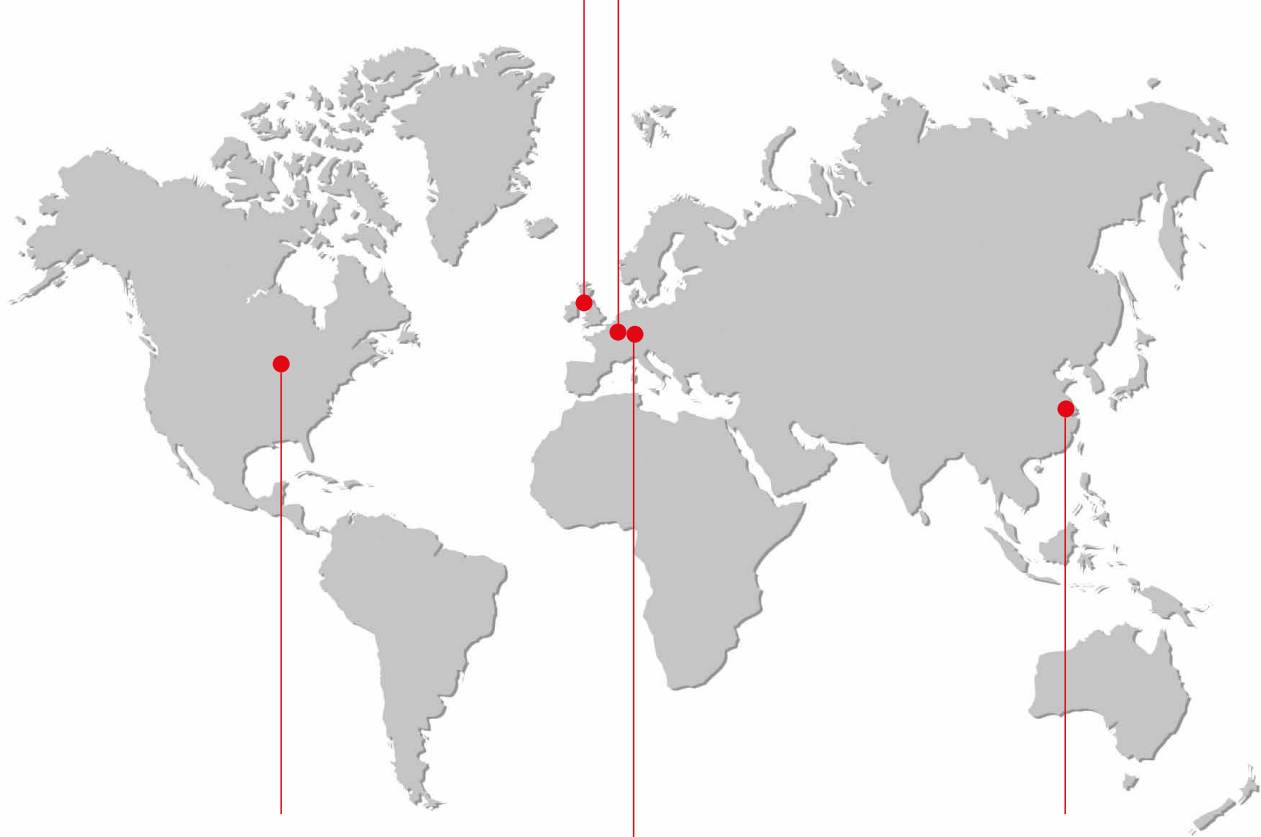
# High-tech products for machines – worldwide!

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