

**Are you ready for
the future of spray
technology?**



„By using our INDUOIL® HL high-performance oils in combination with our process-safe INDUTECH® MS spraying technology, you **reduce** your company's **coolant and lubricant consumption** to a minimum, **optimise** your **work processes**, **minimise costs** for provision, preparation and disposal and make a valuable contribution to the **health of your employees** and **environmental protection**.“

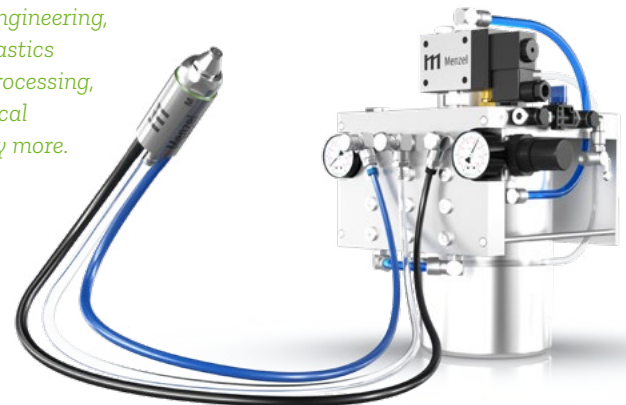


We at Menzel Metallchemie have been developing high-performance oils since 1989 and are still pioneers and market leaders in the development of spray technology and minimum quantity cooling lubrication systems (MQL) and lubricants based on biodegradable raw materials.

By consistent optimisation, we offer comprehensive solutions for a wide range of challenging applications in the fields of non-cutting and cutting machining. Environmentally friendly, cost-efficient and **reliable**. **Modular, flexible** and **economical** – your **technological advantage** over the competition.

We serve customers from a wide range of industries worldwide:

Metalworking, (special) mechanical engineering, assemblers, mould manufacturers, plastics production, glass processing, wood processing, food industry, tobacco industry, medical technology, tyre production and many more.





INDUOIL® HL high-performance oils for almost every application

With now more than 30 different INDUOIL® HL high-performance oils, we have a wide range of lubricants that can be used to solve almost any application in metalworking, plastics processing, woodworking and many other industries.

Process reliability through years of development

Whether as cutting oils, forming lubricants, assembly fluids, release agents, cooling lubricants or lubricants for heavy machining - , more than 5,500 customers worldwide from a wide range of industries rely on our INDUOIL® HL high-performance oils.

Non-marked INDUOIL® HL products and our lubricants based on renewable resources are becoming increasingly important.



Which high-performance oil for which application?

For better overview, we have divided our INDUOIL® HL high-performance oils into the following categories:



**Non-marked
lubricants**



**Residue-free /
low-residue
lubricants**



**Lubricants for heavy
machining / forming**



**Lubricants on the
basis of renewable
resources**

Do you still have any questions about our high-performance oils and about selecting the right medium or are you interested in an individual special solution?

Our competent team will be happy to advise you.
Call us at **+49(0)7331 9878-0** or send us an e-mail
to **info@menzel-metallchemie.de**.



Process-safe technology reduced to the absolute minimum

By using our innovative INDUTECH® MS spray technology and minimum quantity cooling lubrication systems, you benefit from lower costs for medium, storage, cleaning and disposal, as well as from dry workpieces, machines and chips and thus a longer tool service life.

Innovative nozzle concept

By selecting the appropriate nozzles in combination with various attachments, almost any medium can be sprayed, and numerous spray patterns be generated.



INDUTECH® MS SD4



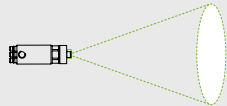
INDUTECH® MS SD3



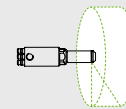
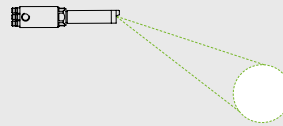
INDUTECH® CD HD



INDUTECH® MS FAD



Flat jet



Round jet

Flat jet – angled

Round jet – angled

Annular jet

Spray patterns and angles

By using different attachment caps, different spray patterns and angles can be created for almost any application.

Of course, we can also manufacture an individual spray head for you.

Swabian world class for over 30 years

Besides the development of our INDUTECH® HL high-performance oils and the appropriate INDUTECH® MS spray technology and minimum quantity cooling lubrication systems, we also plan and implement individual special solutions.

- ✓ **Spray technology for foundries**
Mould spraying with minimum quantity and shot piston lubrication
- ✓ **Grease conveyor units and grease application nozzles**
For precise application of pasty media like grease
- ✓ **Coil wetting**
Material efficiency thanks to continuous wetting
- ✓ **Release agent application**
Fully automatic release agent application during laser cutting
- ✓ **Internal cooling**
Effective reduction of generation of frictional heat

**SPECIAL
SOLUTIONS**

m Menzel Metallchemie

Im Gewerbepark 14 · D-73329 Kuchen · Germany
Phone +49(0)7331 9878-0 · Fax +49(0)7331 9878-78
info@menzel-metallchemie.de



Further information on our products,
safety data sheets and much more can
be found on our website

www.menzel-metallchemie.de

