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Advanced Cutting Fluid Technology made in Germany

Minimum Quantity Lubricants and -Systems

 Advanced Cutting Fluid Technology made in Germany

Good ideas are the guarantee for your success

FOUNDED IN 1968

SCOPE OF BUSINESS production, sale and development of minimum quantity lubricants and - systems, as well as tailor-made special fluid application systems and surface cleaning units

BOARD OF MANAGEMENT Wilfried Wahl

Jürgen Wahl Monika Wahl Perfect solutions are our motive – since the company's foundation in 1968 up to now. As experts for minimum quantitiy lubrication (MQL) and special spraying systems for the aluminium and steel processing industry we are developing products and systems promising and assuring our customers the maximum of quality innovation and efficiency.

The results are internationally patented high technology solutions in the field of minimum quantity lubrication and cooling, as well as special solutions for fluid application that proved to be excellent in practice. Minimal consumption, maximal performance and innovation strength are standards set by us. With the innovative UNICUT® Duo-System we succeeded in combining the advantages of a minimum quantity

Our experience of more than 50 years does not only flow into our product development but also into our service offer: We are always at your disposal when you need us, either on the phone or directly at the face. You can expect from us a competent consultation, professional many-sidedness and individual solutions for specific use optimizing your procedures for a long time.

Put us to the test!

UNICUT® Advanced Cutting Fluid Technology made in Germany

Company		
long-standing experience	05	
Quality	06	
We are thinking ahead	07	
Container		
Anwendungsbereiche + Funkitonsweise	08	
Nozzles		
UNICUT® I/8" Full Cone Nozzle	10	
UNICUT [®] 7mm Full Cone Nozzle	10	
Nozzles for Circular Saws		
UNICUT [®] All-round Nozzle Head with 5 Nozzles	Ш	
UNICUT [®] All-round Nozzle Head with 3 Nozzles	Ш	
UNICUT [®] M-Nozzle Head	Ш	
Nozzles for Band Saws		
UNICUT [®] Stainless Steel U-shaped Nozzle Head	12	
UNICUT [®] U-shaped Nozzle Head	12	
Nozzles for Custom Applicatio	ns	
LINICLIT® Extended Nozzle with Stainless Steel Tube	12	

CONTENT

Distribution Units	
UNICUT [®] Intermediate Distribution Unit	13
UNICUT [®] Dual Distribution Unit	13
UNICUT [®] All-round Distribution Unit	13
Fluid Level Monitoring	
UNICUT [®] Level Switch	14
Minimum Quantity Coolant	
UNICUT [®] Coolant	15
Minimum Quality Lubricants	
UNICUT [®] Basic-EP	16
UNICUT [®] Basic-HT	17
UNICUT [®] Basic-V	18
UNICUT [®] Alu-MF	19
UNICUT [®] Alu-MF LT	20
UNICUT [®] Alu-SI	21
UNICUT [®] Alu-Milling	22
UNICUT [®] Alu-SF	23
UNICUT [®] Alu-HT-MF	24
UNICUT® Steel A4	25
UNICUT [®] Duo System	26



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••••	••••	•••• •••••	••••	
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long-standing experience

Top quality oils for minimum quantity lubrication (MQL) and minimum quantity cooling lubrication (MQCL) complemented by internationally patented high-tech solutions – this is and has been our core business for more than 50 years.

As experts in the manufacture of minimum quantity lubricants and high-performance cutting oils we place great emphasis on our products and systems being of top quality. We set our benchmark at minimum consumption and maximum performance, and at the same time we care about the future of our planet by using environmentally friendly formulas. We keep developing and improving innovative products which in practice have proven to be outstanding.

With our many years of experience combined with our professional expertise we are considered to be a reliable and first-rate supplier especially for the aluminium and also for the large-scale steel processing industry. Likewise, we are known for our sophisticated and application-specific solutions. In fact, our product range covers more than high-quality lubricants: we can also supply the suitable spraying systems and provide professional support and assistance quickly and easily – we can meet you wherever you are or we can help you by telephone.

UNICUT®

High-performance cutting oils and spraying systems

UNICUT®

Minimum quantity lubrication with maximum efficiency

Quality is our ambition

UNICUT®

MQL on the highest level To take account of technological advancements and our customers' expectations, we strongly rely on customised and application-specific solutions which means for you that we meet your individual requirements – both in the high-end and standard segment.

Our products are manufactured IT-based in state-of-the-art production facilities. A stringent monitoring regime with regular checks and the annual certifications according to DIN ISO EN 900I as well as DIN ISO EN I400I ensure a consistently high and reliable quality standard.

With a view to our oils and spraying systems, we expect top quality from ourselves. Nevertheless, our comprehensive project experience that we have acquired in numerous application scenarios and a wide variety of tasks have made us highly qualified professionals able to accommodate.



We are thinking ahead

And of a better environment

To meet our high demand we are constantly refining our products, especially as to their environmental compatibility. Already nowadays UNICUT[®] products are considered to be a progressive contribution to improve the environmental balance of metal processing companies. Numerous products are mineral oil free and biodegradable, all are free of silicone, PCP, PCT, chlorine and other halogens. Metal cuttings coming up during working stay dry and can be recycled comfortably.

Clean production

In the UNICUT® company building most modern energy saving measures are applied: Power generation is made by an own photovoltaic equipment (capacity 30 KW/h). Production emissions will not be found in our company or are avoided as far as possible.

WAY OF MACHINING:



UNICUT® Minimum Quantity Lubrication Systems

• FIELDS OF APPLICATION

UNICUT[®] minimum quantity lubrication systems offer a wide range of possible applications with the focus on circular saws, band saws, die cutting and slitting lines. Additionally, we can realize custom-made solutions to meet our clients' individual needs..

• OPERATION

UNICUT[®] MQL systems work with air pressure which means that the fluid is supplied by excess pressure and therefore pumps that are prone to malfunction are no longer necessary. The UNICUT[®] MQL systems is a fully reliable system which is particularly suited for large-scale industry applications.

The dosage nozzle, developed by UNICUT®, always feeds the right amount of lubricant. Fluid amounts can be adjusted easily and precisely and reproduced without any diffi culties since the fluid dosage is only controlled by the pressure inside the container. A proportional valve is available as an option which allows the electronic control of fluid quantity.



UNICUT[®] MMS - 30 Capacity: 3 litres

Benefits compared to other Lubrication Systems

- Reproducible results
- \cdot Very low consumption
- between 0.5 1.0 gram/minute • Extremely reliable
- Very precise low-mist spray pattern
- Up to IOO lubrication points can be connected to one pressure container
- Oil and air flow can be adjusted independently
- All hose lines have a diameter of > 2.0 mm
- Solid design



UNICUT[®] MMS - 50 Capacity: 5 litres





Pressure container made of solid aluminium

2 Easy quantity control via container pressure

③ Optional level monitoring using float switch

General Solid design for large-scale industry or industrial application

5 Visual level control

6 Pressure gauge only made of metal and glass

⑦ Dual filter

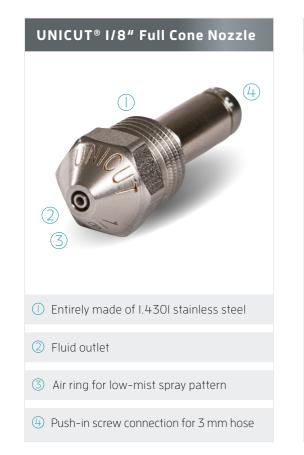
• Optionally extendable due to modular design

 Pre-fitted for automatic refill with the optionally available UNICUT[®] filling station

• Suitable for network systems of up to IOO nozzles

Nozzles

UNICUT[®] Nozzles are precise and robust at the same time. Made of stainless steel, they are resistant against flying burrs and mechanical stress. The UNICUT® full cone nozzles are two-phase nozzles with a separate air and fluid flow. Due to the pressure-tight connection of nozzle and fluid line, air and fluid only come into direct contact when exiting the nozzle which enables a very precise and low-mist spray pattern. Another positive side effect of this type of connection is that fluid and spray air pressure can be controlled independently from one another.





UNICUT[®] 7mm Full Cone Nozzle

Nozzle heads for circular saw applications supplied by UNICUT[®] can be used to lubricate and cool circular saws, whatever your application may be. UNICUT[®] always offers the right solution for your equipment. Particularly the UNICUT[®] all-round nozzles make sure that the saw blade is lubricated by the nozzle head, while at the same time a coolant can be sprayed onto the steel blade, which means that in applications with hard metal saw blades the nozzle is not removed to exchange the saw blade.



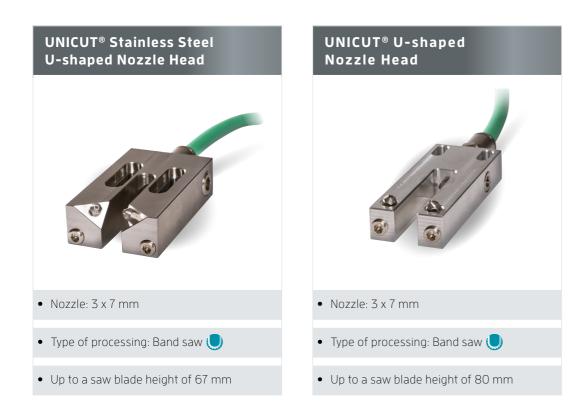
Nozzles for Circular Saws





Nozzles for Band Saws

Nozzle heads for band saws have been designed in such a way that saw blade heights from 34 – 90 mm can be covered. Due to the design with three nozzles fitted both the saw teeth as well as the back of the blade are lubricated.



• Nozzles for Custom Application

Due to the modular design of the UNICUT® MMS systems custom solutions can be implemented easily and cost-effectively. Sucessfully accomplished projects include those in profile lubrication, profile cleaning, strip slitting and many more.



The intermediate distribution unit allows bridging long distances between container and nozzle. The intermediate distribution unit is connected to the pressure container via a traditional hose or tube line. The valve unit of the nozzle-valve-arrangement can then be linked with the intermediate distribution unit using a quick coupling connection. This particular design allows on the one hand that the pressure container can be placed outside the machine, so that it can be refilled without entering the exclusion zone of a machine, while on the other hand network systems comprising of up to IOO lubrication points can be set up.

UNICUT® Dual Distribution Unit



Distribution Units

UNICUT[®] Intermediate Distribution Unit





Fluid Level Monitoring

The optionally available level switches will give you the opportunity to monitor the fluid level of your lubrication system. The switch signals when the fluid in the container has reached the minimum level via the SPS of the processing machine or the optionally available UNICUT® flashing light. A level switch that gives a signal of being full / empty is available for the MMS IOO system. So the container can be automatically refilled from a barrel or an IBC container by means of the UNICUT[®] filling station which is optionally available.



UNICUT® Coolant-SAF

RANGE OF SERVICE:	High tech speci
MATERIALS:	C-steel, CrNi-st rials, non-ferro
CHARACTERISTICS:	Fully synthetic,
WAY OF MACHINING:	Band sawing, c rubbing

TECHNICAL CHARACTERISTICS

- Fully synthetic special concentrate
- Does not emulsify the cutting oil
- Specially developed for dual application
- Grants highest performance of cutting and cooling fluid
- Mixable in a ratio of I:30 with purified water
- No residues

ADVANTAGES

- Maximum productivity through maximum machine utilization rate while significantly extending tool life.
- of cooling liquid.
- "Dry cut" = dry chips that are easily disposable due to minimum quantity, no disposal of cooling agent, no disposal of fluid bonding agent which means improved workplace environment.
- Extremely kind to your skin, no harmful vapours when used properly, paint-preserving characteristics.
- It has not been rated as a hazardous substance in the workplace, biodegradable.
- It has not been rated as a hazardous material
- Free from wax-like, sticky or resinous residue
- Free from DEA, PCB, PCT, chlorine, heavy metals, silicones, nitrosamines, halogens.
- Disposal according to EAK No. 120109 WGK I (VwVwS) rule of mixtures.

AVAILABLE CONTAINER SIZES

- 10, 20, 30 litres HDPE-container
- 200 litres in throw-away barrels
- 1,000 litres container

Minimum Quantity Coolant

ial product

steel, high-alloyed steels, titanium and special mateous metals

low viscosity, water mixable

circular sawing, milling, turning, drilling, reaming and





• Flash cooling of cutting edge through minimum quantity spray cooling and reduction of surface tension







Minimum Quantity Lubricants

UNICUT[®] Basic-EP



STAINLESS STEEL

RANGE OF SERVICE:	Broadband-allround product
MATERIALS:	Aluminium, non-ferrous metals, C-steels and CrNi-steels
CHARACTERISTICS:	Based on mineral oil, medium viscous, all-purpose use
WAY OF MACHINING:	Drilling, rubbing, band sawing, milling, turning, circular sawing, reaming



TECHNICAL CHARACTERISTICS

- Viscosity 60 cSt at 40 degrees Celsius
- Based on mineral oil
- Excellent lubrication effect
- Usable with every commercially approved MQL-spraying station
- Free of evaporation promoting solvents
- Free of silicone as well as chlorine and other halogens

ADVANTAGES

- Cost saving by increasing the machining speed
- Reduction of tool costs
- Avoiding of built-up edges
- Less standstills by tool change
- No costs for cooling agent odour
- Ideal for companies with high material variety
- Cost-effective by low consumption
- Good skin tolerance and environmentally friendly

AVAILABLE CONTAINER SIZES

- 10, 20, 30 litres HDPE-container
- 200 litres in throw-away barrels
- 1,000 litres container

UNICUT® Basic-HT

RANGE OF SERVICE:	Broadband-allround
MATERIALS:	Aluminium, non-fer
CHARACTERISTICS:	Based on mineral oil,
	Aluminium, non-ter Based on mineral oil,

WAY OF MACHINING: Drilling, rubbing, band sawing, milling, turning, circular sawing, reaming



TECHNICAL CHARACTERISTICS

- Viscosity 220 cSt at 40 degrees Celsius
- Based on mineral oil
- High temperature resistant
- For high performance processing machines
- Excellent lubrication effect
- Especially adhesive
- Also suitable and well-tried for aviation and space flight alloys
- Suitable for silicon bearing alloys and pure aluminium
- Suitable for special non-ferrous metal alloys
- Usable with every commercially approved pumping and spraying MQL station
- Recycable and dry shavings
- Free of silicone as well as chlorine and other halogens

ADVANTAGES

- Cost saving by increasing the machining speed
- Reduction of tool costs
- Avoiding of built-up edges
- Less standstills by tool change
- No costs for cooling agent odour
- Ideal for companies with high material fluctuation
- Cost-effective by low consumption
- Good skin tolerance and environmentally friendly
- No staining during heating-up on hot rolling temperature
- Grooveless milled surfaces

AVAILABLE CONTAINER SIZES

- 10, 20, 30 litres HDPE-container
- 200 litres in throw-away barrels
- 1,000 litres container

nd product

rrous metals, C-steels and CrNi-steels

, highly viscous, high temperature resistant, all-purpose use



STEEL/ STAINLESS STEEL

UNICUT[®] Basic-V



STAINLESS STEEL

RANGE OF SERVICE:	Broadband-allround product
MATERIALS:	Aluminium, non-ferrous metals, C-steels and CrNi-steels
CHARACTERISTICS:	Based on mineral oil, medium viscous, high temperature resistant, all-purpose use
WAY OF MACHINING:	Circular- and band-sawing, rubbing, reaming, milling, ingot milling, turning Drehen

TECHNICAL CHARACTERISTICS

- Viscosity IOO cSt at 40 degrees Celsius
- Based on mineral oil
- for high performance processing machines
- For milling processes with following plating
- Excellent lubrication effect
- Also suitable and well-tried for aviation and space flight alloys
- Suitable for silicon bearing alloys and pure aluminium
- Suitable for special non-ferrous metal alloys
- Usable with every commercially approved pumping and spraying MQL station
- Recycable and dry shavings
- Free of silicone as well as chlorine and other halogens

ADVANTAGES

- Cost saving by increasing the machining speed
- Reduction of tool costs
- Avoiding of built-up edges
- Less standstills by tool change
- No costs for cooling agent odour
- Ideal for companies with high variety of materials
- Cost-effective by low consumption
- Good skin tolerance and environmentally friendly
- Dry and grooveless milled surfaces

AVAILABLE CONTAINER SIZES

- 10, 20, 30 litres HDPE-container
- 200 litres in throw-away barrels
- 1,000 litres container

UNICUT® Alu-MF

RANGE OF SERVICE:	Hightech speci
MATERIALS:	Aluminium and
CHARACTERISTICS:	Free of minera
WAY OF MACHINING:	Circular sawing



TECHNICAL CHARACTERISTICS

- Viscosity 30 cSt at 40 degrees Celsius
- Free of mineral oil
- Developed in cooperation with leading producers of band saws
- Excellent lubrication effect
- Also suitable and well-tried for aviation and space flight alloys
- Suitable for high-silicon content alloys and pure aluminium
- Usable with every commercially approved MQL-spraying station
- Recycable and dry shavings
- Free of silicone as well as chlorine and other halogens

ADVANTAGES

- Very high tool service lives, at band saws up to 3,000 m² /band
- Cost saving by enormous increase of the machining speed
- Reduction of tool costs
- Avoiding of built-up edges
- Less standstills by tool change
- No costs for cooling agent odour
- Cost-effective by low consumption
- Good skin tolerance and environmentally friendly
- Dry and grooveless milled surfaces

AVAILABLE CONTAINER SIZES

- 10, 20, 30 litres HDPE-container
- 200 litres in throw-away barrels
- 1,000 litres container

Minimum Quantity Lubricants

ial product

d its alloys, non-ferrous metals

al oil, lowly viscous

g, band sawing, milling, drilling, turning





Minimum Quantity Lubricants

UNICUT® Alu-MF-LT



RANGE OF SERVICE:	Hightech special product
MATERIALS:	AlSi-alloys, aluminium, non-ferrous metals
CHARACTERISTICS:	Free of mineral oil, lowly viscous
WAY OF MACHINING:	Band sawing, circular sawing, milling, drilling, turning



TECHNICAL CHARACTERISTICS

- Viscosity 23 cSt at 40 degrees Celsius low temperature restistant up to -40°C
- Free of mineral oil
- Developed in cooperation with leading producers of band saws
- Excellent lubrication effect
- Also suitable and well-tried for aviation and space flight alloys
- Suitable for high-silicon content alloys and pure aluminium
- Usable with every commercially approved MQL-spraying station
- Recycable and dry shavings
- Free of silicone as well as chlorine and other halogens

ADVANTAGES

- Very high tool service lives Stain-free after heat treatment of profiles
- Cost saving by enormous increase of the machining speed
- Reduction of tool costs
- Avoiding of built-up edges
- Less standstills by tool change
- No costs for cooling agent odour
- Cost-effective by low consumption
- Good skin tolerance and environmentally friendly

AVAILABLE CONTAINER SIZES

- 10, 20, 30 litres HDPE-container
- 200 litres in throw-away barrels
- 1,000 litres container

UNICUT[®] Alu-SI

RANGE OF SERVICE:	Hightech speci
MATERIALS:	AlSi-alloys, alu
CHARACTERISTICS:	Free of minera
WAY OF MACHINING:	Band sawing, c



TECHNICAL CHARACTERISTICS

- Viscosity 25 cSt at 40 degrees Celsius
- Free of mineral oil
- Developed in cooperation with leading producers of band saws
- Excellent lubrication effect
- Developed especially for highly silicon bearing alloys
- Also suitable and well-tried for aviation and space flight alloys
- Usable with every commercially approved MQL-spraying station
 - Recycable and dry shavings
 - Free of silicone as well as chlorine and other halogens

ADVANTAGES

- Very high tool service lives, at band saws up to 3,000 m² /band
- Cost saving by enormous increase of the machining speed
- Reduction of tool costs
- Avoiding of built-up edges
- Less standstills by tool change
- No costs for cooling agent odour
- Cost-effective by low consumption
- Good skin tolerance and environmentally friendly

AVAILABLE CONTAINER SIZES

- 10, 20, 30 litres HDPE-container
- 200 litres in throw-away barrels
- 1,000 litres container

ial product

uminium, non-ferrous metals

al oil, lowly viscous

circular sawing, milling, drilling, turning







STAINLESS STEEL

Minimum Quantity Lubricants

UNICUT[®] Alu-Milling



RANGE OF SERVICE:	Hightech special product
MATERIALS:	Aluminium and its alloys, non-ferrous metals
CHARACTERISTICS:	Free of mineral oil, lowly viscous
WAY OF MACHINING:	Ingot milling



TECHNICAL CHARACTERISTICS

- Viscosity 30 cSt at 40 degrees Celsius
- Free of mineral oil
- Especially suitable for milling of aluminium
- Developed in cooperation with leading producers of ingot milling machines
- Excellent lubrication effect
- Also suitable and well-tried for aviation and space flight alloys
- Surfaces suitable to be plated after milling
- Also suitable for high-silicon content alloys as well as pure aluminium
- Preferably usable with the UNICUT[®] special spraying equipment UDDS
- Recycable and dry shavings
- Free of silicone as well as chlorine and other halogens

ADVANTAGES

- Very high tool service lives
- Cost saving by enormous increase of the machining speed
- Clean glassy surfaces
- No built-up edges
- Machine parts are suitable to be plated without time-consuming finishing treatment
- Enormous reduction of tool costs
- Less standstills by tool change
- No costs for cooling agent odour
- Cost-effective by low consumption
- Good skin tolerance and environmentally friendly
- Dry and grooveless milled surfaces

AVAILABLE CONTAINER SIZES

- 10, 20, 30 litres HDPE-container
- 200 litres in throw-away barrels
- 1,000 litres container

UNICUT[®] Alu-SF

RANGE OF SERVICE:	Hightech speci
MATERIALS:	Aluminium and
CHARACTERISTICS:	Free of minera
WAY OF MACHINING:	Band sawing, c



TECHNICAL CHARACTERISTICS

- Viscosity 23 cSt at 40 degrees Celsius
- low temperature restistant up to -60°C
- Totally stainfree after heat treatment.
- Free of mineral oil
- Developed in cooperation with leading producers of band saws
- Excellent lubrication effect
- Also suitable and well-tried for aviation and space flight alloys
- Suitable for high-silicon content alloys and pure aluminium
- Usable with every commercially approved MQL-spraying station
- Recycable and dry shavings
- Free of silicone as well as chlorine and other halogens

ADVANTAGES

- Very high tool service lives Stain-free after heat treatment of I80°C and 500°C
- Cost saving by enormous increase of the machining speed
- Reduction of tool costs
- Avoiding of built-up edges
- Less standstills by tool change
- No costs for cooling agent odour
- Cost-effective by low consumption
- Good skin tolerance and environmentally friendly

AVAILABLE CONTAINER SIZES

- 10, 20, 30 litres HDPE-container
- 200 litres in throw-away barrels
- 1,000 litres container

ial product

d its alloys, non-ferrous metals

al oil, lowly viscous

circular sawing, milling, drilling, turning





Minimum Quantity Lubricants

UNICUT® Alu-HT-MF



RANGE OF SERVICE:	High-tech special product for hot machining
MATERIALS:	Aluminium, Non ferrous metals and C-steels
CHARACTERISTICS:	Free of mineral oil, high viscous
WAY OF MACHINING:	circular sawing



TECHNICAL CHARACTERISTICS

- Viscosity I75 cSt at 40 degrees Celsius
- Free of mineral oil

- For high performance metal cutting machines
- Extremely suitable for difficult-to-machine materials like austenitic steels, special materials like Nimonic and Hastelloy as well as highly heat resistant steels
- Excellent lubrication effect
- Usable with every commercially approved MQL equipment
- Recycable and dry shavings
- Free of silicone as well as chlorine and other halogens

ADVANTAGES

- Very high tool service lives
- Cost saving by enormous increase of the machining speed
- Reduction of tool costs
- No built-up edges
- Less standstills by tool change
- No costs for cooling agent odour
- Cost-effective by low consumption
- Good skin tolerance and environmentally friendly
- Dry chips

AVAILABLE CONTAINER SIZES

- 10, 20, 30 litres HDPE-container
- 200 litres in throw-away barrels
- 1,000 litres container

UNICUT® Steel-A4

RANGE OF SERVICE:	Hightech special pro
MATERIALS:	C-steel, CrNi-steel, I titanium and specia
CHARACTERISTICS:	Free of mineral oil, r

WAY OF MACHINING: Band sawing, circular sawing, milling, turning, drilling, reaming and rubbing



TECHNICAL CHARACTERISTICS

- Viscosity 60 cSt at 40 degrees Celsius
- Free of mineral oil
- For high performance metal cutting machines
 - and Hastelloy as well as highly heat resistant steels
- Excellent lubrication effect
- Usable with every commercially approved MQL equipment
- Recycable and dry shavings
- Free of silicone as well as chlorine and other halogens

ADVANTAGES

- Very high tool service lives
- Cost saving by enormous increase of the machining speed
- Clean and smooth surfaces
- Reduction of tool costs
- Less standstills by tool change
- No costs for cooling agent odour
- Cost-effective by low consumption
- Good skin tolerance and environmentally friendly

AVAILABLE CONTAINER SIZES

- 10, 20, 30 litres HDPE-container
- 200 litres in throw-away barrels
- 1,000 litres container

oduct

high-alloyed steels, al materials

medium viscous



• Extremely suitable for difficult-to-machine materials like austenitic steels, special materials like Nimonic



UNICUT[®] Duo-System



RANGE OF SERVICE:	Highend special solution
MATERIALS:	C-steel, CrNi-steel, highest-alloyed steels and high-grade steels, titanium and most difficult-to-machine special materials
CHARACTERISTICS:	Minimal Quantity Coolant Lubrication (MQL), free of mineral oil
WAY OF MACHINING:	Band sawing, circular sawing, milling, turning, drilling

TECHNICAL CHARACTERISTICS

- Machining with very efficient synergetic effect: the arising rubbing is reduced to a minimum by means of a special high performance lubrication fluid. The remaining afterheat is then eliminated by a microfog out of the high performance fluid especially fine-tuned to the cooling fluid
- Minimal Quantity Coolant Lubrication (MQL)
- For the maching of steel, C-steels, high-grade steel as well as special materials like titanium, CrNi-Mo-steels, Vanadium-steels, nickel, Ni-base alloys, Hastelloy and Inconel
- Free of mineral oil
- Excellent lubrication and cooling efficiency
- With HM-tools self-induction hot cut is possible
- Recycable and dry shavings
- Free of silicone as well as chlorine and other halogens

ADVANTAGES

- Clean and smooth surfaces
- Considerable tool cost savings
- Noticeable increase of production efficiency
- Considerably reduced fixed cycles at equal tool life
- No adhesive or resinous residues
- No costs for cooling agent odour
- Good skin tolerance and environmentally friendly

AVAILABLE CONTAINER SIZES

- 10, 20, 30 litres HDPE-container
- 200 litres in throw-away barrels
- 1,000 litres container





Advanced Cutting Fluid Technology made in Germany

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