

EXPLORE HOW  
**AHB & BLASER**  
CAN SAVE YOU TIME AND MONEY

INTERACTIVE BLASER PRODUCT GUIDE



**AHB**

TOOLING & MACHINERY

COMPLETE METALWORKING SOLUTIONS

**Blaser.**  
SWISSLUBE

(800) 991-4225 | [www.AHBinc.com](http://www.AHBinc.com) | [CustomerService@AHBinc.com](mailto:CustomerService@AHBinc.com) | ISO CERTIFIED

## MICHIGAN'S FULL-SERVICE BLASER DISTRIBUTOR

AHB Tooling & Machinery is your go-to resource for metalworking in Michigan. Our customers rely on us for exceptional service and top-notch product expertise—especially when it comes to Blaser metalworking coolants. We carry every Blaser product you need!

Blaser metalworking fluids are more than just an aid to machining parts. The Liquid Tool saves time and money – without harming humans and the environment. Blaser Swissslube products are engineered to provide:

- **Greater productivity:** We let you produce more parts in a given time. And how do we do that? By optimizing the machining process and using our long-term stable cutting fluid to enable higher speeds, feed and machining rates as well as longer tool life.
- **Maximum safety:** Our cutting fluids are very well tolerated and user-friendly. They comply with the highest workplace safety standards. The result is fewer health-related issues and greater employee motivation.
- **Process dependability:** We help to keep your production running smoothly, by stabilizing your processes and preventively identifying potential interferences. This results in greater machine availability, which enables better production planning.
- **First class machining quality:** We help you produce at better quality with less fluctuation. The result is consistently high surface quality, greater precision, and more constant quality. That means less reworking outlay and fewer rejects.
- **Better cost-effectiveness:** We help you produce more economically and save manufacturing costs accordingly. We cut your tooling costs by reducing wear to extend tool life. The long service life of our cutting fluids significantly reduces machine cleaning outlay and waste disposal costs. Machine availability and labor deployment efficiency are thereby improved.

Please take a look at this exciting new interactive product guide. It provides a quick overview of some of our most popular Blaser products. Better yet, it provides you with links to more information, including product videos to help you make better decisions and **get the details you need FAST!** **And...with your customer login detail...you can even place product orders!**

**Don't see what you need?** You can always call your AHB Metalworking Specialist to help you with any Blaser product decision at **800-991-4225!** Or customer service is only an email way at [customerservice@ahbinc.com](mailto:customerservice@ahbinc.com).



## TABLE OF CONTENTS

<a href="#">Blasocut BC 940</a>	3
<a href="#">Blasomill GT</a>	4
<a href="#">Blasogrind GTC 7</a>	5
<a href="#">Synergy 735 Titan</a>	6
<a href="#">Vasco 6000</a>	7
<a href="#">Vasco 7000</a>	8
<a href="#">Coolant 101 Educational Series</a>	9

# NEW! BLASOCUT BC 940: WATER-MISCIBLE CUTTING FLUID



[CLICK HERE TO ORDER  
BLASOCUT BC 940](#)

## BLASOCUT BC 940 OFFERS THE LATEST ADVANCEMENTS IN BLASOCUT «MICRO-EMULSION» TECHNOLOGY BLASER SWISSLUBE

Blasocut products – with the unique Bio-Concept – have been in use for over 35 years. Their novel product composition allows for successful use without subsequent bactericide additions.



[CLICK HERE FOR A SHORT VIDEO](#)

### EASY HANDLING & UNIVERSALITY

- for use in soft & hard water
- for individually filled machines & centralized filter systems
- for machining & grinding of both soft and hard metals
- easy to mix – spontaneous emulsification

### MACHINE & SYSTEM FRIENDLY

- machinery stays clean thanks to the excellent rinse behavior of the emulsion
- easy on machine tool paints & seals; protects against corrosion without sticky residues
- maintains stability when contaminated; especially applicable for cast iron machining

### FRIENDLY TO HUMANS AND THE ENVIRONMENT

- Blasocut Bio-Concept – mild formulation without bactericide
- extended long term sump life and low monthly consumption
- free of boron, formaldehyde, formaldehyde releasers, secondary amines, bactericides

### DESCRIPTION

Blasocut BC 940 is a water miscible, mineral and ester oil-based metalworking fluid. The product is very clean, leaving behind only a light, non-sticky protective oil film. The product is also characterized by its remarkable pH and biological stability.

### RANGE OF USE

Universal machining and grinding fluid for steel, alloyed steels, cast iron, aluminum, titanium and other tough to machine alloys. Ideal for both individually filled machines as well as centralized systems.

### THE PRODUCT DOES NOT CONTAIN:

Nitrite, nitrite separators, formaldehyde, formaldehyde separators, triazine (HHT), secondary amines, diethanolamine, NDELA and/or nitrosamines, active sulphur, silicones, PCP (pentachlorophenol), PCB, PCT, TCDD or other dioxin-containing substances.

**Description** Blasocut BC 940 is a water-miscible, mineral and ester oil based, boron free cutting fluid with minimal residue. This product is characterized by strong pH and long term stability.

**Range of application** Universal cutting fluid for machining and grinding of steel, cast iron and is also applicable for mixed manufacturing with aluminum alloys.

#### Product properties

Product properties	Benefits
good cutting performance	→ universally applicable long tool life
good rinsing behavior	→ clean machines
mild formulation without bactericide	→ good human and skin compatibility

#### Physical-chemical data

	Concentrate	Emulsion
Color	brown	light brown, semi-transparent
Mineral oil content	45%	
Water content	0%	
Chlorine content	6%	
Density at 20°C	0.98 g/cm <sup>3</sup>	
Viscosity at 40°C	98 mm <sup>2</sup> /s	
Flash point	299°F	
pH (fresh emulsion)		9.5-9.8
Refractometer factor		1.0

**Note** The product does not contain:\*  
Heavy metals, boron, secondary amines, silicone, bactericide, formaldehyde, nitrosamines.

\*The substances listed here are not part of the formula, but trace amounts of these substances may be present.

#### Concentration of use

Variable concentrations	3 - 15%
- Best results grinding operations	4 - 7 %
- Best results machining operations	7 - 10%

For make-up we recommend to use a mixing unit (Jetmix).

If the water is very soft, add calcium up to 500ppm at the initial fill (recommended to prevent foam).

information contained in this data sheet is based upon the properties and applications of use as known to us. However, generally no legal liability may be deducted from such information.

2016 18.01.2017 V 01

Blaser ISO 9002 Reg. Nr. 15596/0623





# BLASOMILL GT



[CLICK HERE TO ORDER  
BLASOMILL GT](#)

State of the art cutting oil for demanding machining operations based on highly refined mineral oil: GtL – Gas to Liquid. Perfect match for the use in high production screw machine shops supplying for example, medical and aerospace industries.

## YOUR BENEFITS

- peak cutting performance, especially in stainless steel
- all common non-ferrous metals and copper alloys remain stain free
- high surface quality
- clear view onto the machining process: transparent, colorless oil
- low foaming and evaporation, even under high-pressure
- exceptional fast air release

## CHARACTERISTICS

Developed for machining and automatic turning, especially for stainless steels, titanium, copper alloys, aluminum and precious metals. The additives allow for a high tool life, good surface quality and a stain free production under pleasant working conditions. The positive characteristics of the high-quality base oil (Gas to Liquid) remain in this high performance cutting oil.

## PRODUCT DATA

PRODUCT	Blasomill GT 22
Art. No.	03322
Color	colorless, clear
Viscosity at 40 °C	22 mm <sup>2</sup> /s
Flashpoint	419 °F (215 °C)
Ester oil content	8 %
Sulfur content	1.2 %
Copper corrosion (3 h at 60 °C)	1a
Sedimentation tendency	optimal
Band filter	optimal
Cartridge filter	optimal
Centrifuge filtering	optimal
Compatibility with electrostatic mist collection systems	good

**liquidtool**<sup>®</sup>

THE LIQUID TOOL BOOSTS  
YOUR PRODUCTIVITY.  
FOR DEMANDING  
MACHINING OPERATIONS.

# BLASOGRIND GTC 7



[CLICK HERE TO ORDER BLASOGRIND GTC 7](#)

## FAST AIR RELEASE FOR OPTIMAL COOLING.

### PEAK PERFORMANCE GRINDING OIL

- Performance-optimized formulation for high feed rate, long dressing intervals and excellent surface quality.
- Active cobalt inhibition preventing leaching in carbide grinding.
- Colorless and transparent for a clear view of the grinding process.
- Odorless for a pleasant working environment. Especially suited for tool grinding and re-grinding

### ESPECIALLY SUITED FOR TOOL GRINDING AND RE-GRINDING

- For carbide, ceramic and cermet.
- Also suited for profile and creep feed grinding. Fast air release

### FAST AIR RELEASE

- Ensures optimal cooling.
- Prevents microcracks in tools.
- Allows for a smaller coolant tank.

BLASOGRIND GTC 7

LITTLE FOAM

NO ENTRAINED AIR



Shaken for 10 sec.

Let stand for 10 sec.



Customary grinding oil

Lots of foam

Lots of entrained air

Product data		Measuring method
Viscosity at 40°C	7.0 mm <sup>2</sup> /s	ISO 3104
Flash point	160°C	ISO 2592 (COC)
Copper corrosivity	1a (3h at 60°C)	ISO 2160
Color	Colorless	ASTM 0.5

Note: Suitable for edgcap and pre-coat filters.



# SYNERGY 735



[CLICK HERE TO ORDER SYNERGY 735](#)



[CLICK HERE FOR A SHORT VIDEO](#)

## EXCELLENT SURFACE QUALITY AND CLEANLINESS.

### FULL-SYNTHETIC, WATER-MISCIBLE OIL-FREE METALWORKING FLUID

- Spotless surfaces thanks to neutral pH – even with sensitive aluminum alloys
- Suitable for precision cleaning due to outstanding rinse behavior and easy cleanability
- Extremely low foaming – ideal for high-pressure systems
- Excellent tramp oil separation and filterability down to 1 micron
- Free of critical substances such as bactericide, boron, chlorine, formaldehyde and sulfur\*

### SATISFIED OPERATORS

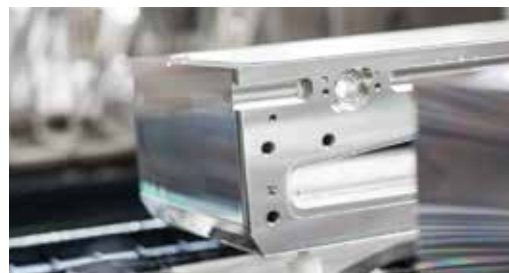
- Crystal clear coolant for a clear view of the machining process
- Neutral odor and excellent skin compatibility

*\*Without active addition of chlorinated EP additives*

### PERFORMANCE IN A VARIETY OF MATERIALS

- Aluminum and titanium alloys
- Steel and stainless steels
- Composites (CFRP and others)
- Copper alloys
- Designed for use in DI/RO or otherwise demineralized water

## SPOTLESS SURFACES THAT ARE EASY TO CLEAN



## PROFIT FROM OUR UNIQUE LIQUID TOOL

Productivity, economic efficiency and machining quality are factors that critically depend on the choice and the quality of your metalworking fluid.

With our profound know-how and experience, customized services and excellent products, we help you fully capitalize on the potential of your machines and tools and turn your metalworking fluid into a key success factor – a Liquid Tool.

# VASCO 6000



[CLICK HERE TO ORDER VASCO 6000](#)

## DEVELOPED FOR THE DEMANDING CONDITIONS OF GENERAL MACHINING.

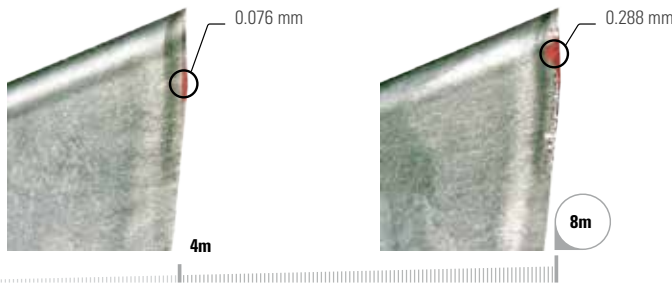
### ESTER-OIL-BASED COOLANT WITH HIGH PROPORTION OF ADDITIVES

- Resilient, stable, universally applicable product with robust performance and long tool life
- High machining volume and best surface quality even for difficult operations and materials
- Clean parts and machines thanks to excellent rinsing behavior
- Economical due to low consumption
- Good human and skin compatibility (free of bactericides)

### BROAD RANGE OF APPLICATION

- For general and high performance machining of titanium, nickel based alloys, alloyed steel, steel, cast steel, cast iron and cast aluminum alloys
- For individually filled machines as well as central systems
- For soft and hard water

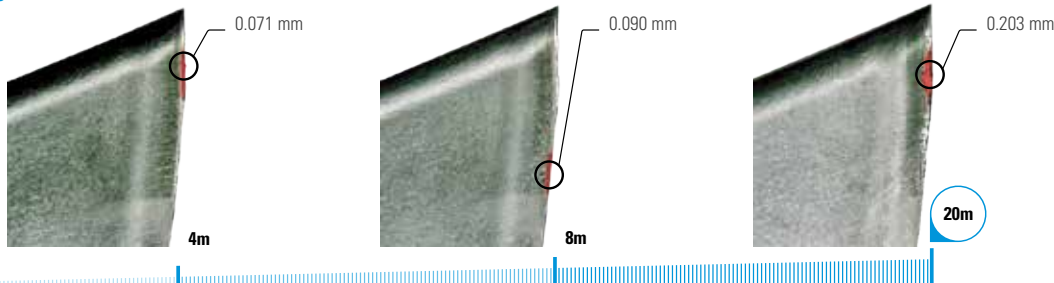
### CONVENTIONAL COOLANT



### LOWER TOOL COSTS PER PART

Tool wear after 4, 8, 20 meters milling in titanium

### Vasco 6000



### PROFIT FROM OUR UNIQUE LIQUID TOOL

Productivity, economic efficiency and machining quality are factors that critically depend on the choice and the quality of your metalworking fluid.

With our profound know-how and experience, customized services and excellent products, we help you fully capitalize on the potential of your machines and tools and turn your metalworking fluid into a key success factor – a Liquid Tool.



# VASCO 7000



[CLICK HERE TO ORDER  
VASCO 7000](#)



[CLICK HERE FOR A SHORT VIDEO](#)

## MACHINING AND GRINDING IN THE AEROSPACE INDUSTRY

Water miscible, ester oil based cutting fluid for efficient machining of titanium, nickel-based alloys and aluminum in the aerospace industry.

### YOUR BENEFITS

- high productivity, Vasco 7000 is characterized by high cutting performance of titanium and nickel-based alloys
- universally applicable for most all operations and materials
- Vasco 7000 is free of chlorine, boron and formaldehyde
- high stability in hard water
- available for suppliers in the aerospace industry worldwide
- sustainable, future oriented formulation

### CHARACTERISTICS

Vasco 7000 was developed especially for efficient machining of titanium and nickel-based alloys (Inconel). Vasco 7000 is also suitable for machining aluminum and alloyed steels and therefore covers the entire range of materials which are typically used in the aerospace industry. Vasco 7000 is also applicable for creep feed grinding and profile grinding.

### AEROSPACE CONFORMANCE

- Rolls-Royce (CSS129 & 131 Type A) fully approved
- Airbus PFA No. ECD025 approved
- Lufthansa LHT HAM TQ/M Report 2011 714
- Bombardier Aerospace Material Specification BAMS 569-001 Rev B
- Safran Group Test 455-201-0-00 Index B approved
- Boeing BAC5008 Area 5 + 6 tests
- Pratt & Whitney approved, PMS # 9295

### PRODUCT DATA

Product	Vasco 7000	
Art. No.	2870	
	Concentrate	Emulsion
Color	light brown	semi-transparent
Mineral oil content	0 %	
Ester oil content	25 %	
Density at 20 °C	0.98 g/cm <sup>3</sup>	
Viscosity at 40 °C	74 mm <sup>2</sup> /s	
Flashpoint	273°F	
pH range	8.8 – 9.5	
Refractometer factor	1.4	
Optimal concentration of use	Machining	7 – 10%
	Grinding	3 – 5%

The optimal foaming behavior is achieved within the hardness range 15 - 25°dH (270 – 450 ppm). It is necessary to harden up when filling with soft water.

If it is still necessary to reduce the foam in spite of the optimal hardness, e.g at high pressure conditions, it is recommended to use Additive A34 antifoam for emulsions.



# COOLANT 101 EDUCATIONAL SERIES

CLICK IMAGE FOR A SHORT VIDEO



*Coolant 101: An Introduction*



*The Importance of Water*



*The Importance of PH:*



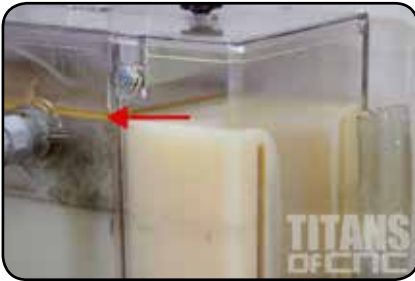
*How to Mix Coolant Properly*



*Concentration Control*



*Refractometer*



*Tramp Oil*



*Rotten Eggs & Dirty Socks*



*Maintain Your Sump, Don't Dump*



*Different Types of Coolant*



*Vasco 7000*



*Oil Skimming*

(800) 991-4225 | [www.AHBinc.com](http://www.AHBinc.com) | [CustomerService@AHBinc.com](mailto:CustomerService@AHBinc.com) | ISO CERTIFIED