Tool grinding

The Liquid Tool®
The Liquid Tool® boosts your productivity…

Grinding machine

Production benefits:
– more parts per machine hour
– gain machine time
– less down time

Investment benefits:
– better return on machine investment
– lower maintenance costs
– longer grinding fluid life

Plus tools produced
### Grinding wheels:

<table>
<thead>
<tr>
<th>Self-sharpening effect:</th>
<th>– higher material removal rates thanks to continuous self-sharpening of the wheel</th>
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<tbody>
<tr>
<td>Cutting ability:</td>
<td>– efficient flushing prevents wheel clogging</td>
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<td>Added grinding wheel value:</td>
<td>– more parts per dress, longer wheel life</td>
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<td></td>
<td>– optimised production</td>
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### Workpiece:

| Carbide grinding: | – minimal microcracking thanks to special additives in our grinding oil |
| HSS grinding:     | – less risk of burn marks, even at high removal rates                            |
| Production benefits: | – higher removal rates |
|                    | – shorter cycle times |
|                    | – consistently high surface quality                                              |
Conventional grinding oils

High-pressure foaming test in the laboratory

Blaser Swisslube grinding oils

Cobalt leaching into grinding oil:

- Conventional grinding oil
- Blaser Swisslube grinding oil

Time (months at 50°C / 122°F)

- 0 ppm
- 40 ppm
- 80 ppm
- 120 ppm

Reduced foaming even at high pressures and high peripheral speeds. This improves flushing and cooling.

Workplace safety

During carbide grinding cobalt can be leached with conventional grinding oils. Cobalt negatively affects human health as well as tool coating adhesion. Our grinding oils are specially inhibited to prevent this.

Plus foam-free

Blaser Swisslube grinding oils

High-pressure foaming test in the laboratory

Conventional grinding oils

Plus no cobalt leaching
Work environment

Workplace safety thanks to high flashpoint and negligible oil vapour emissions – no misting, no odour – makes for a safe and user-friendly work environment.

Industry approvals

Efficient cooperation with our customers, machine-tool and filter system manufacturers is the basis of our success.
Industry-oriented product development

Blaser Swisslube has developed a new grinding oil product line through hundreds of grinding tests and laboratory analyses.

Faster feed rates thanks to lower workpiece temperatures because of less friction.

Faster feed rate (= time savings) means greater productivity.

Our product development is driven by the requirements of our customers – who supported our grinding fluid R&D team with numerous tests on their grinding machines.
Our tool-grinding oil product lines are:

**Blasogrind**
- cost-effective start-up product
- good grinding performance
- good human and machine compatibility
- excellent grinding performance
- high flashpoint
- low misting
- very good human and machine compatibility
- colourless and transparent

**Blasogrind HC**
- excellent grinding performance
- high flashpoint
- low misting
- excellent human and machine compatibility
- colourless and transparent

**Blasogrind PAO**
- excellent grinding performance
- high flashpoint
- low misting
- excellent human and machine compatibility
- colourless and transparent

Our field professionals and laboratory specialists provide support to ensure the safe and dependable use of our grinding fluids.

Services to ensure long and dependable use of our grinding oils.
Globally, we are there for you

In partnership with Blaser Swisslube, our customers receive not simply products but liquid tools exploiting the full potential of both machine and tooling, thus boosting their productivity.

Rico Pollak  
Head of Grinding Technology

Blaser Swisslube AG  
CH-3415 Hasle-Rüegsau  •  www.blaser.com  
Tel.+41 (0)34 460 01 01 • Fax +41 (0)34 460 01 00

From our headquarters in Hasle-Rüegsau, Switzerland and throughout the world - from our 15 subsidiaries and network of factory trained distributors in over 60 countries.