



Geyser



High-pressure processes



Pure Technology.

Customized cleanliness

Efficient cleaning despite increasing requirements for the technical cleanliness of products? Our solutions help you, the user, to master this challenge. Each system is individually designed because different customers can have very different requirements.

Our support and design staff can fall back on their experience from numerous implemented projects. Cleaning trials with the original components at our Technical Center give you, the user, the reassurance of a safe investment for their plant while also determining the exact parameters for cleaning chemicals, time and temperature.

BvL systems reliably clean your components and can be integrated seamlessly into your production processes. They are easy to operate and comply with the strict guidelines of the automotive industry. In addition, they are designed in line with the Machinery Directive 2006/42/EC, C standard EN 12921 and the German Accident Prevention Regulations (UvV).

- Solid design & long service life
- Intuitive operation
- Easy access for easy maintenance
- High-quality components from renowned manufacturers
- Quality "Made in Germany"
- Specialist firm according to the German Water Management Act (WHG), certified management systems





variable pressure range allows for different applications

robot system for maximum flexibility

can be combined with pre-cleaning, fine cleaning, drying and cooling



System type

Geyser for deburring with linear guided high-pressure wands



Brief description

The Geyser uses a high-pressure water jet to clean, deburr and strip paint. The pressure range can be adjusted to between 100 and 3,000 bar depending on the component, material and residual contamination requirements. We perform extensive tests at our Technical Center to determine the optimum parameters.

High-pressure cleaning

Persistent contaminants, such as shavings/filings, welding residues, silicates, etc. can be loosened effortlessly with high force.

High-pressure deburring

Machining burrs, casting flakes and shavings/filings can be reliably removed – even from workpieces with technically complex geometries. The high-pressure jet is directed at the critical points of the component so that even those components with deep or small holes, blind holes and undercuts can be deburred with ease thanks to the high kinetic energy of the jet.

High-pressure paint stripping

Old paint, varnish and persistent rust can be removed easily without placing thermal or mechanical strain on the components. The components are thus perfectly prepared for further processing, such as repainting, quality testing, etc.



Smart Cleaning

Intelligent cleaning with **BvL** apps and digital networking.
Transparent process information for predictive diagnostics and maintenance of the system: efficient and automatic.



Media Supply

- Cleaning medium passes through a circuit or the waste water process
- Absolute reliability thanks to filter technology
- High-pressure processes in a wet cell



Advantages

- Robot technology (optional) offers maximum flexibility for the range of movement, conversion, as well as for changing processing sequences and new geometries
- No thermal or mechanical strain on the components
- High efficiency thanks to short cycle times

Usable dimensions of the Geyser

Usable length, width and height, as well as the load capacity and pressure range, are individually adapted.

Example: Technical data

based on the BvL demonstration system Geyser

Usable length	in	31
Usable width	in	24
Usable height	in	16
Load capacity	lb	110



Detailed view

Multiple rotating nozzles in permanently installed nozzle system

Powerful professional.

High-pressure supply module GeyserVM

Pump unit:	Frequency-controlled high-pressure pump; variable pressure range
Equipment enclosure:	Integrated pre-pressure pump, filtration system and high-pressure pump
Circuit cooling:	Cooling of the high-pressure pump via a heat exchanger
Supply:	From the cleaning system tank or optionally via an integrated storage tank
Housing:	Completely stainless steel housing including the floor pan
Control and operation:	Siemens Simatic with Siemens touch panel or integrated into the controls for the cleaning system

High-pressure work unit GeyserAE

Processing chamber:	High-pressure unit integrated into the wet cell
Water tools:	Specifically aligned nozzles, multiple rotating nozzles or individual lances <ul style="list-style-type: none">■ Changeable tools for various different applications
Workpiece guidance:	<ul style="list-style-type: none">■ Nozzle guided to workpiece or workpiece guided to water tool■ Integrated, water-proof robots (optional)
Integration:	Can be combined with pre-cleaning, subsequent fine cleaning, drying and cooling



High-pressure wands

Targeted deburring of oil and water channel bores



Workpiece holder cleaning as optional component

- The empty workpiece holder passes through a washing unit while the component is cleaned or deburred.



Robot-assisted high-pressure water tool for large usable dimensions

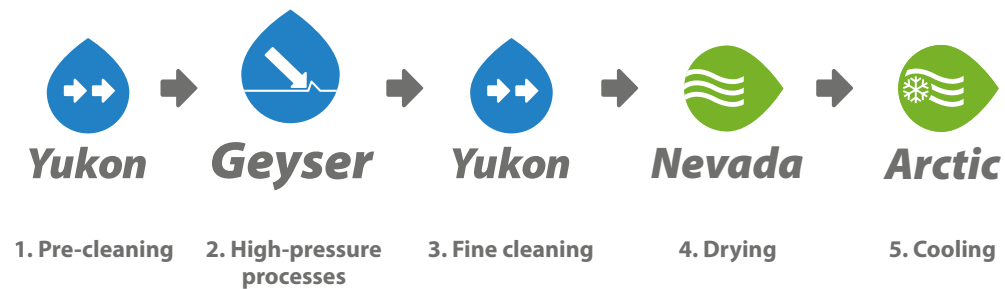


- The deburred component is placed on the cleaned workpiece holder.
- This prevents the component becoming contaminated again by residues on the workpiece holder.



The **Geyser** integrates perfectly into BvL's process chain for modern component cleaning. All interfaces are optimally coordinated with one another. As a long-standing specialist for the demanding requirements found in parts cleaning, BvL offers standardized quality systems that can be individually adapted to create modular solutions customized to suit your tasks.

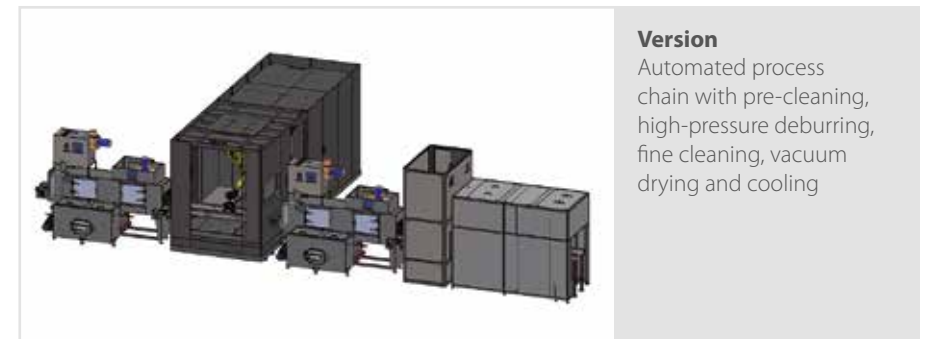
Everything from one source!



High-pressure processes in the process chain



Version
High-pressure processes combined with pre-cleaning and subsequent fine cleaning



Version
Automated process chain with pre-cleaning, high-pressure deburring, fine cleaning, vacuum drying and cooling



Version
High-pressure deburring with lance technology, combined with pressure / flood / spray cleaning on a conveyor system, vacuum drying and cooling tunnel



BvL Oberflächentechnik GmbH

Grenzstr. 16
48488 Emsbüren
Germany
Phone: +49 5903 951-60
Fax: +49 5903 951-90
Email: info@bvl-group.de
Internet: www.bvl-group.de

Pure Technology.