



## High-pressure deburring

# Our trade fair innovation: Integrated high-pressure cleaning



- For removing **cutting burrs, casting flashes** and **swarf**
- For workpieces with a **technically demanding geometry**, e.g. deep or small boreholes and hard-to-reach undercuts
- For optimising the functional and ergonomic **quality of the component**
- For **series production** of workpieces in medium and large quantities
- For **high output rates** and short cycle times
- A **highly flexible system** which can react to changes in the geometry or the processing sequence of the workpieces
- **Compact design** adapted to container size
- **Modular** system to cover the **entire processing chain of component cleaning**

### Deburring with high-pressure water jet

The Geysler is suitable for workpieces which have to conform to the highest safety and cleanliness requirements. The high-pressure water jet is directed at the critical points of the component. The high kinetic energy deforms the burr, causing it to break and come away from the component. Swarf, burrs and other contaminations are removed reliably even in hard-to-reach deburring locations, e.g. deep or small boreholes, blind holes and undercuts.



#### Deburring technology

- Robot-assisted component handling
- Stationary high-pressure water tools: multiple rotating nozzles or individual lances
- The burr is removed through the high kinetic energy of the water jet
- Frequency-controlled pump: adapted to the requirements of component, material and residual contamination



#### Media guiding

- Cleaning medium used in a cycle
- Absolute reliability of filter technology

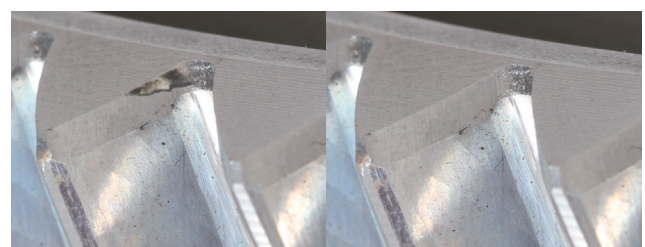


#### Advantages

- Robot technology allows maximum flexibility: for range of movement, conversion, changing processing sequences and new geometries
- No thermal or mechanical strain on the components
- Increased product quality through high, reproducible deburring results
- High level of efficiency through short cycle times

**NEW**

**We offer you the opportunity to carry out thorough tests at our Technology Centre.**



## Technical information

### Brief description

The **Geyser d** is a high-pressure deburring system. A high-pressure water jet with multiple rotating nozzles or individual lances is used for deburring. The spray-water protected robot ensures efficient and safe component handling. The water tools and the robot are housed in the processing chamber. The high-pressure pump, the storage container, the filter system and the booster pump are installed in the unit chamber with separate access.

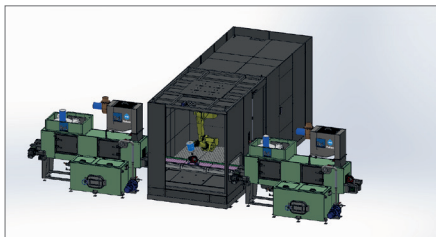
### Basic system

Handling:	robot assisted component guiding
Water tools:	two tools as a standard – multiple rotating nozzles and individual lance
Optional:	other water tools possible
Robots:	water-resistant Fanuc robots
Pump unit:	frequency controlled Hammelmann pump
Housing:	stainless steel
Control and operation:	Siemens Simatic with Siemens touch panel
Bath monitoring:	Libelle Fluid Control

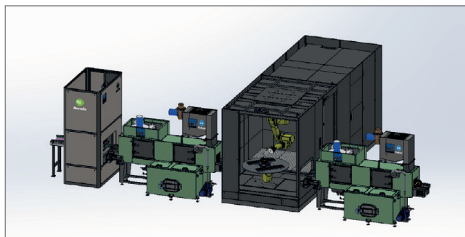
System types	Pressure range	Name
high-pressure cleaning	100 – 200 bar	Geyser c (cleaning)
high-pressure deburring	250 – 1000 bar	Geyser d (deburring)
high-pressure paint stripping	2000 – 3000 bar	Geyser p (paint stripping)

Standard sizes	Unit	
Effective length	mm	800
Effective width	mm	600
Effective height	mm	400
Load capacity	kg	50
other technical data and on-site services on request		

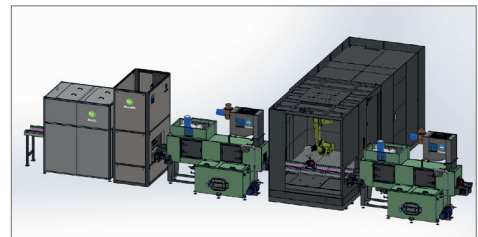
## High-pressure deburring in the process



High-pressure deburring combined with pre-cleaning and subsequent fine cleaning



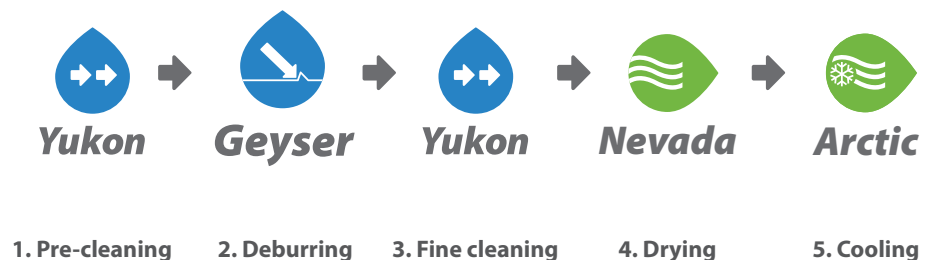
Supplementing the system with vacuum drying



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

## Everything from one source!

The **Geyser** perfectly integrates into the processing chain of modern component cleaning by BvL. All interfaces are optimally coordinated. As a long-standing specialist for high requirements in parts cleaning, BvL offers standardised quality systems which can be adapted individually. This creates modular solutions which are customised to suit your tasks.



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