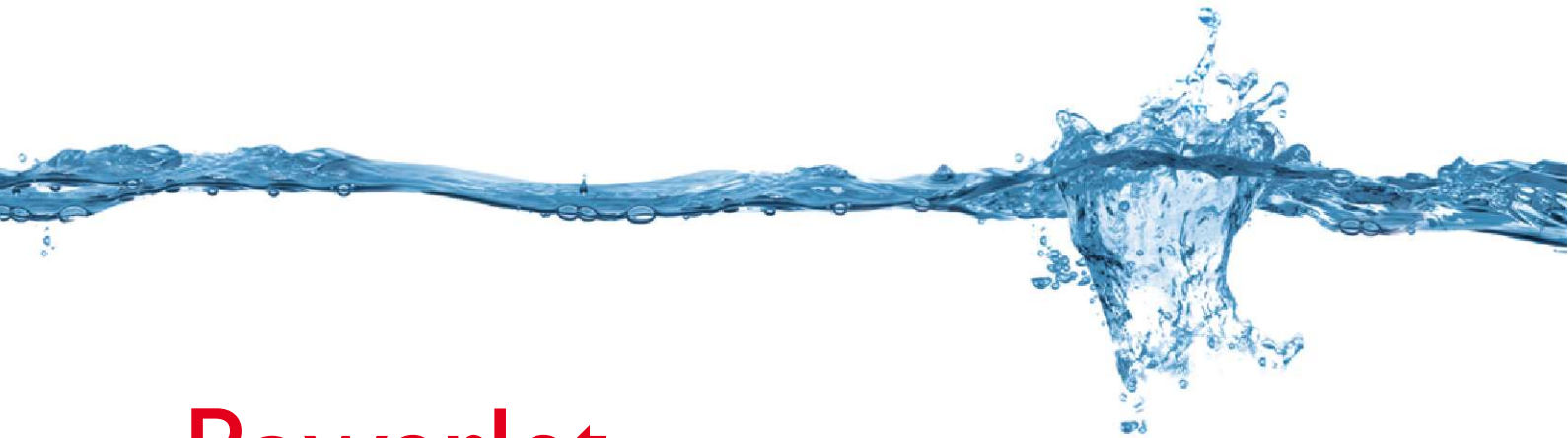




Member of **SURFACE ALLIANCE**



# PowerJet

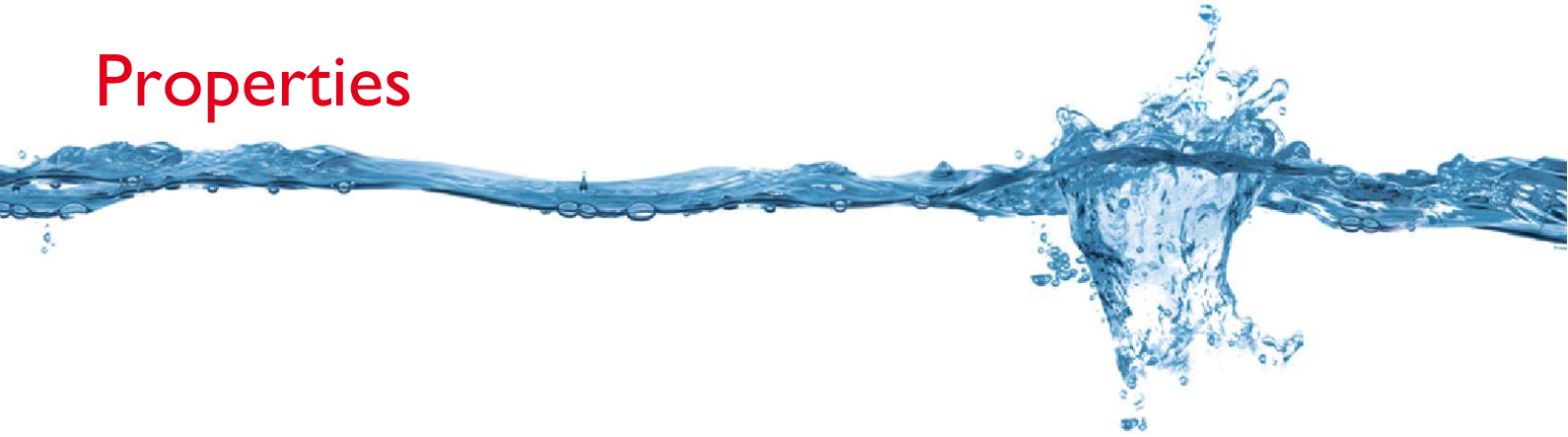
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LPW Reinigungssysteme  
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# Properties



The versatile **PowerJet** series is characterized by high performance and a long operating life time, combined with a space-saving design. Even the basic configuration includes all important features necessary for compliance with customer requirements with respect to residual dirt and long operating life time. The system can be extended to include up to five cleaning/rinsing stages. In addition to the standard sizes and versions special sizes and versions can be implemented at any time. Important process properties are decisive for making the system ideal for solving demanding cleaning problems. The direct emptying of the working chamber decisively reduces the risk of foaming compared with systems which use pumps and thus better demulcation of the oil dissolved in the cleaning fluid. This improves the oil separation in the storage tank and extends the useful life of the baths. If the parts to be cleaned contain large amounts of swarf only the overflow-proof filter chamber is emptied, reducing the contamination of the process filters. This swarf box ensures that no pump is damaged or lost parts. It is not necessary to blow out the return lines in order to reduce the unwanted transfer of cleaning fluid from one bath to another. Generously dimensioned drain valves commit a fast draining of the working chamber and thus shorter idle periods.

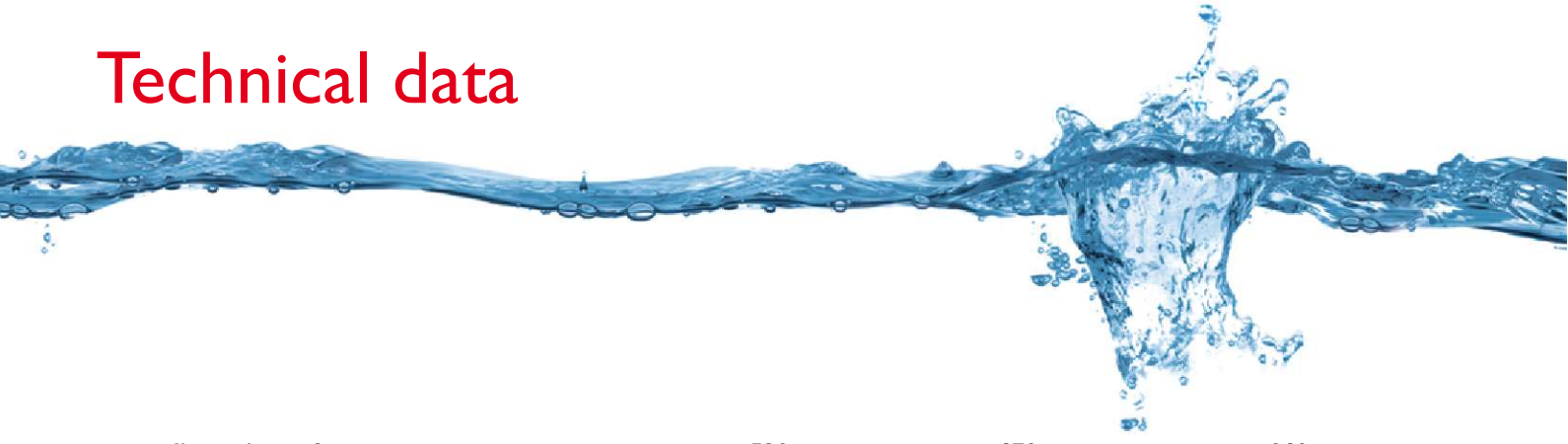
Further properties:

- Highly efficient pressure flooding properties in the pressure range 14 - 18 bar
- High energy efficiency
- Modular expandability
- Optimized process properties to reduce unwanted transfer of cleaning fluid
- Uses filtered air for drying
- Integrated full-flow filtration at a constant fluid temperature
- Integrated pre-separation of oil
- Handling systems tailor-made to meet customer specific requirements
- Compact design reduces heat losses





# Technical data



<b>outer dimensions of system</b>	<b>530</b>	<b>670</b>	<b>960</b>
width (mm)	1700 - 2400	2100 - 3000	3000 - 4000
depth (mm)	2100	2400	3000
height (mm)	2500	2500	2500
<b>batch size (mm)</b>	530x320x200	670x480x300	1020x650x560
<b>max. weight of batch</b>	100 kg	200 kg	400 kg
<b>throughput</b>	6 - 12 /h	6 - 12 /h	6 - 12 /h
<b>storage tank sizes</b>			
cleaning fluid	320 l	550 l	1.300 l
rinsing water	320 l	550 l	1.300 l

## Possible configurations (extract)

- Expandable up to 3/5 tanks
- Pressure flood washing (14/18 bar)
- Ultrasonic cleaning
- Hot-air drying
- Vacuum drying
- Finest filtration (bag / cartridge)
- Continuous bypass filtration
- Vaporizer
- Coalescence oil separator
- Steam condenser
- Desalinator for rinsing bath
- Tank cleaning jets
- Automation
- Automatic closure of baskets
- Designed as a belt washing system (inline version)
- Control Siemens S7 (alternatively Bosch Rexroth)

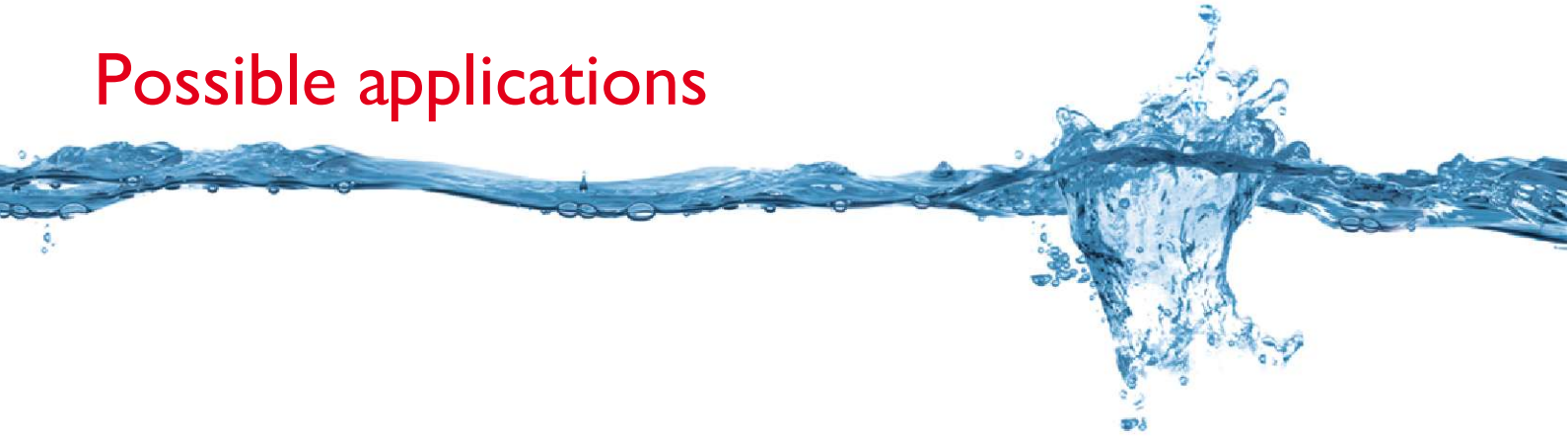
Special sizes for heavy loads ( "heavy duty" series)  
or non-standard dimensions are available on request.



Photo PowerJet 960



# Possible applications



## High-quality aqueous cleaning of

- ▶ Metal, plastic or ceramic parts
- ▶ Bulk material or positioned single components
- ▶ Partially or fully automated



## Finest cleaning of stainless-steel/aluminium components

- ▶ Reliable removal of chips and swarf after machining
- ▶ Preparation of components for measurement/leak-testing operations
- ▶ Cleaning up to defined residual or surface tension



## Cleaning of engine and gearbox components

- ▶ Aluminium, steel and cast-iron components
- ▶ Reliable removal of chips and swarf after machining
- ▶ Preparation of components for measurement/leak-testing operations
- ▶ Cleaning up to defined residual or surface tension



## Removal of coarse contamination

- ▶ Preparation of used engines for overhauling
- ▶ Removal of dirt resulting from normal use before inspection for cracks
- ▶ Cleaning after lapping
- ▶ Cleaning after grinding and polishing



## Cleaning before and after thermal deburring

- ▶ Removal of scale residues before further machining/final assembly
- ▶ Removal of oil/emulsion residues as preparation for TEM



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**A Surface Alliance Company**