

# System PowerJet

The modular all-rounder

### FEATURES AND STANDARDS

- High standardisation grade and use of standard parts

- High quality performance in production and assembly

- Can be extended and expanded at a later date
- Low operating costs at high availability

The LPW-PowerJet modular series is currently our most powerful system for meeting premium purity requirements in all high-tech branches. At the end of the 1990s the automotive industry and industry in general were investing in singlechamber immersion systems because these were seen as the standard for almost all applications regarding final cleaning tasks. Multi-chamber systems have since been added to these because they offer a much wider process scope.

This applies particularly for the final cleaning of medical system devices or components for the semiconductor industry which usually takes place on wet benches/ serial immersion bath systems. Chamber systems are by now far superior under consideration of all the relevant aspects. The bottom line is that these plants are extraordinarily flexible and extremely efficient systems that are designed to fulfil all criteria regarding residual purity and at the same time for high availability and low operating costs.

These systems are designed so that they can be integrated ideally into the production processes. Our modular PowerJet system also meets customer requirements for integration as a "quality gate" between the grey room and clean room environment. The unique features of this modular structure include the hermetically sealed treatment chambers, maximum flexibility with regard to throughput and the easily expandable configuration. The design of this system type allows integration of all known cleaning techniques and media processing techniques. With much higher filtration rates and minimised cross contaminations in comparison with all other known systems. We offer a high degree of flexibility with regard to the media-wetted materials (e.g. stainless steel or plastic). LPW also offers suitable automation and control systems. These range from simple automatic loading to complex connections to multi-stage upstream and downstream processes, also under the aspect of batch size 1 and batch tracking if required.





### Available cleaning processes



**CNp** 

Fast emptying

(ĆNp)

Additional options (examples)





Filtration

Deionised/high purity water system // INDUSTRIAL PARTS CLEANING -- WITH AQUEOUS SOLUTIONS

## "ADAPTING TO THE TASK DOES NOT MEAN REALISING AN EXPENSIVE SPECIAL SOLUTION"







Automation

- » Flexible and extremely efficient system
- » Designed for high residual dirt requirements
- » High disposability at low operating costs



960

Variants





PowerJet Inline compact

# Single/Multi flood washing system

PowerJet - the all-rounder

High-quality fine cleaning:

- Components made of metal, plastic, glass or ceramic
- Bulk goods or positioned single components
- Fully or partially automated
- Cleaning of residual dirt or surface tension
- Process-reliable removal of chips and processing residues after
- mechanical processing
- Use of all known wash-mechanical and wet chemical flooding and spraying techniques
- Cleaning according to branch-specific purity requirements

# 530







Bulk goods or

components

positioned single components

Components made of metal. plastic or ceramic

overhauling of a second-hand engine Removal of contamina-

Preparation for

tion from usage before crack tests Full or partly automa-

Cleaning after grinding and polishing processes

Cleaning on residual dirt of surface tension

ted. i.e. diesel-injection

In addition to tailor-made, customised designs, modular standard systems are also available: 530 (batch size 530 x 320 x 200 mm) 670 (batch size 670 x 480 x 300 mm) 960 (batch size 1020 x 650 x 560 mm) as well as all special sizes

IR, steam drying, etc.)

With standing or lying media templates

Possible integration of all known cleaning techniques (e.g. spray/flood cleaning, ultrasound, cyclic nucleation, fast emptying, etc.)

hydraulic components Cleaning after lugging

Removal of tinder

Removal of oil /

residues before final

emulsion residues as

TEM-preparation i.e.

assembly or processing





PowerJet Inline Twin/Triple



PowerJet Topload



- Process-reliable removal of chippings and processing residues after mechanical treatment
- Preparation for meter/ leak test operations i.e. extension components, engine/transmission production
- Cleaning of residual dirt or surface tension



- Aluminium, steel and grey cast iron components
- Process-reliable removal of chippings and treatment residues after the mechanical treatment
- Preparation of the components for meter/ leak test operations
- Cleaning of residual dirt or surface tension



- Removal of organic residues (normally emulsion
- Cleaning of processed components before further assembly

Possible integration of all known drying techniques (e.g. hot-air, vacuum, CNp,

Possible integration of all known media processing techniques (e.g. full power filtration, bypass filtration)