We have the solution for all your washing requirements

From components weighing a few grams...

...to components up to 80 kilograms.

We practice washing trials on your components in our own test centers and control the specifications of the required cleaning level in our laboratory.

The cleaning and degreasing of metallic and/or plastic components is a fundamental step in the majority of industrial processes in order to be able to pass quality control and actual remaining dirt specifications. The parts must normally be washed before or after machining or between processes; as a prior step before surface treatment or assembly. Rösler washing installations guarantee a reproducible cleaning efficiency which meets specifications required in subsequent process production or MRO.

We practice washing trials on your components in our own test centers and control the specifications of the required cleaning level in our laboratory.
Technology of industrial washing

Rösler adapts to your requirements manufacturing equipment specially designed based on the components to be treated. Rösler fabricates custom made machines and systems. We are constantly working with our clients in the individual development of solutions for specific challenges of washing and degreasing. We also provide our own laboratory to carry out cleaning tests and analysis.

All of our equipment is manufactured from stainless steel AISI 304 and includes modern filtration systems, blow off zones and can include orientation of the components.

We provide you with more than 30 years of experience in R+D and engineering in the field of industrial degreasing.

Complete turnkey solutions from a single supplier

Rösler is the only company worldwide that can offer a combination of three turnkey technologies: Vibratory finishing, shot blasting and shot peening, and industrial washing.

Whatever your requirement, leave it in our hands: we give a complete solution from a single source.

Component before and after washing.

Rösler laboratory for cleaning tests and analysis.

Our washing systems are tailor-made to your requirements and production flow.
**Conveyor belt washing machine**

Rössler’s continuous transport belt washing machines are manufactured from stainless steel 1.4301 (AISI 304) and are used for degreasing, washing, blowing and drying of metallic components which are placed directly on the belt or on customized pallets according to the components to be treated. Our machines can be equipped with oil separators, medium or high pressure blowers, compound dosing systems, filter systems and vapor condensers.

**Fully automatic double washing and filtering line of automotive components with adjacent drying.**

**Customized transport systems**

- V6 engine block on sliding double chain transport.
- Support with double roller chain.
- Roller support for camshafts.
- Custom-made component handling.
- Cleaning of large components: Monorail transport.

- Transport with V supports for washing and drying.
- Double chain for steering joint support.
- "Flex on line" transporter with special component handling.

**Step by step fully automatic line with linked upstream and downstream “flex on line” system for component collection.**
**Monorail systems**

Monorail machines are ideal for degreasing, washing and oiling of large components.

![Monorail system](image1)

Automatic electrostatic oiling for bodywork components (3g/m²).

![System for degreasing, washing, blow off and drying of large plastic moulds.](image2)

System for degreasing, washing, blow off and drying of large plastic moulds.

**Drum washing systems**

The Rösler drum type machine is ideal for bulk treatment of large production volumes (nuts and bolts, machined and turned components).

Manufactured from stainless steel AISI 304, the washing machines can have different cycles such as: immersed degreasing, sprayed degreasing, washing, passivation or oiling and drying.

We provide various models with different diameters and a variable production (from 20 litres/h to 1000 litres/h). We also manufacture special type large diameter drums for volumes over 3000kg/h of components.

![Drum washing system for degreasing and rinsing copper fittings; including a conveyor belt with a throughput rate up to 300 litres/h.](image3)

Drum washing system for degreasing and rinsing copper fittings; including a conveyor belt with a throughput rate up to 300 litres/h.

Our washing machines can be equipped with automatic component loading systems and weight control at the discharge point; in addition to oil separation, compound dosing systems and steam condensers.

![Our washing machines can be equipped with automatic component loading systems and weight control at the discharge point; in addition to oil separation, compound dosing systems and steam condensers.](image4)
INDEX rotary washing systems

Rösler’s rotary washing machines consist of a rotary platform and various chambers for separating the washing, degreasing and blow off process. The components are placed directly on the rotary platform or on special designed fixtures based on the shape and size of the components to be treated. The loading and unloading can be carried out manually or automatically using a robot.

The components are placed vertically on rotary transport fixtures. The loading and unloading of the components is carried out using a robot.

Washing installation with three process steps:
- degreasing (divided in two zones: high and medium pressure),
- high pressure washing and blow off.

The main advantage of this type of washing machine is that they require less space than the conveyor belt models.

Cleaning levels crankcase:
- High pressure zone: Gravimetric 5 mg.
- Low pressure zone: Gravimetric 20 mg.

Cover:
- Measured gravimetrically 3 mg.

Rotary washing installation for washing cylinder heads with medium or high pressure (about 2900 psi). Level of cleanliness < 300 mg per component.
Transfer washing line system

Transfer line system for washing parts using component rotation, targeted washing and blow off as well as general blow off while part’s rotation.

Arrangement of the different plant components on two levels for optimal use of the available space.

Example of a transfer washing machine with second level.

Loading zone, transfer of block using automatic manipulator.

Unloading zone using second automatic manipulator and transfer of the components to production line.

View of upper level where exchangers, refrigerators, storage tanks and medium pressure pumps are installed.

View of block rotation in the final blow off zone.
Washing Cabinets

Rösler manufactures washing cabinets in stainless steel 1.4301 (AISI 304), with different processing zones: multistage with degreasing, washing, passivation, blow-off and drying. The washing is carried out via centrifugal pumps that blast the cleaning liquid at high pressure, removing any stubborn contaminants and oils which can be on the surface.

Alternative processes:
- Horizontal rotation of the baskets.
- Vertical rotation of the baskets for immersion bath and spray washing processes.
- Placed on special fixtures for medium or large delicate components.

Options:
- Oil skimmer.
- Filter systems with removable cartridges.

Examples of placement of components to be treated.

Washing Cabinet for big-sized components, such as gears of wind turbines (1,500 kg). Dimensions of the cabin door: 2,400 mm (width) x 1,500 mm (height).

Equipment components:

To ensure our high quality standards we only use components from well-known companies that are leaders in their field.

Control systems
We adapt to any PLC control system for automated control of the different process steps.

Siemens
Allen Bradley
OMRON
Telemecanique

Auxiliary equipment for water treatment, Demineralizing systems.

Manipulator and robotic loading and unloading system

Oil separators.
Level switch.

Demineralizing systems.

Equipment components:

Siemens
Allen Bradley
OMRON
Telemecanique