



## CUSTOMISED CLEANING SYSTEMS





## OUR DRIVING FORCE

Karl Roll GmbH & Co. KG is one of Europe's market leaders in the field of industrial parts cleaning. This standing has been achieved by our engineers applying uncompromising quality standards in the production of high quality roll cleaning systems. Our DIN EN ISO 9001:2008 certification is evidence that we are not only at the forefront of quality management, but also ensures the long-term quality of our manufacturing. And of that we are truly proud!

The Roll product range comprises all available techniques of wet cleaning of your parts: proven solvent cleaning facilities, both for hydrocarbon cleaning agents, modified alcohol and perchlorethylene, as well as wide range of aqueous cleaning systems. As "complex" the stages in your manufacturing process are as individual the cleaning process shall be.

After all, it is a product enhancing stage of treatment that decides on the quality of your products. We have the ideal concept to meet your specific needs. Leading companies are placing confidence in experience and competence of our engineers.

Apart from a standardised range of machines with a multitude of accessories to choose from, we are also always developing and manufacturing designs made to specification. We work closely with the user to ascertain his special requirements and wishes resulting on the basis of these devise an optimally tailored system. The great in house production in Mühlacker gives us enormous flexibility and also assures a uniformly high manufacturing.



## MILESTONES



- 1956: Karl Roll, together with only one employee, built his first degreasing plant in a garage at Enzberg. From the very beginning he developed his ultrasonic devices by himself.
- 1957: Roll delivered the first carousel plant to the company WMF. The multichamber-immersion plants of the types RSK/RSKT became the trademark of the new company. To date, more than 900 such plants have been built.
- 1966: The closed single chamber solvent facility RSPUT becomes a great success and is a prime example of simple and reliable technology. Its emissions protection is way ahead of its time.
- 1968: A new, modern building was erected and the company moved to its present location in the Kanalstraße.
- 1973: After the sudden death of the company founder the management of the family business devolved to the second generation.
- 1976: Roll builds the first solvent plant with vacuum drying system.

- 1984: Delivery of the first completely closed plant, type RWT. In 1993 this extremely successful production series is replaced by the type RWTS, which is free from exhaust air and equipped with the new developed front-loading technique.
- 1985: The production series RUT introduced a carrier system with transfer. Due to the simultaneous treatment of several loads in the same plant, enormous throughputs can be achieved. To this day, Roll ranks as one of the market leaders as far as this technique is concerned.
- 1994: Roll extends the product range by plants for cleaning with unhalogenated hydrocarbons or modified alcohols: the production series RCTS is started.
- 2002: The company Roll was certificated according to ISO 9001:2000.
- 2006: Roll receives the Supplier Award from the Bosch Group.
- 2008: The third generation of the family takes over the reins of the company management.
- 2014: With the RCTS petite, Roll offers a contemporary solution for also the very smallest business.

## INNOVATIONS: TECHNICAL RESEARCH CENTRE

Customer needs don't just begin after signing a contract. Competent sales staff both in our offices and out in the field provide extensive advice on the multitude of possibilities of modern parts cleaning recommending suitable options for all your requirements. We also inform you about essential and useful accessory, for example the conditioning of process media or for automatic integration of the facility into your production line. The focus of all our consultancy is your application needs.

At the Roll technical research centre you also can find a large selection of different cleaning systems and can have some „hands-on“ experience of

their technology. Our staff may carry out cleaning tests for you free of charge using your own contaminated parts. It enables you getting ideas of which process would suit your needs best.

State-of-the-art equipment is available to analyse the cleaning results. Residual contamination analyses as per VDA19 with automatic particle size evaluation are equally possible as the visual inspection of the most complex of components with a stereomicroscope using an integrated, high res digital camera.





## MANUFACTURE AND SERVICE

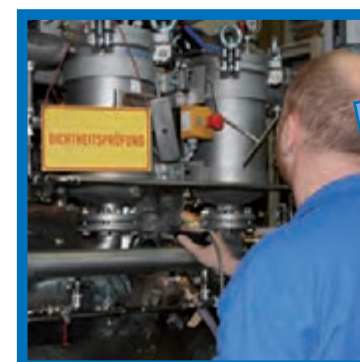
Roll is manufacturing and developing standard applications and special solutions for industrial parts cleaning since 1956. If your project involves facility systems incl. periphery such as for example, supply and disposal of process media, then you have come to the right place. The large in house production in Mühlacker gives us the requisite flexibility and assures uniformly high manufacturing quality. The slogan „tailor-made technology“ is, therefore, not just a motto, but our constant mission.

Our declared aim is the systematic further development and optimisation of our parts cleaning systems for the benefit of our customers. Development focus is on environmentally friendly and energy-saving processes, modern process control with user-friendly operation, as well as reliable and durable process engineering.

Roll standard plants are constantly undergoing further development. Our team of experienced development engineers and creative young staff are always working on new ideas. These are then put through their paces at the Roll technical research centre in extensive batteries of tests before serial production is finally approved.

From starting the project through to delivery - a one-stop service. And on site we are at your disposal. The handover of your new cleaning facility obviously includes a comprehensive test run at our works as well as a thorough training of your operating personnel on site. Our qualified service technicians are always there for you.

Whether your facility needs maintenance, modernisation or repair – one call is enough and we are with you. An extensive parts store ensures the shortest delivery time. And should you face a production bottleneck, you can rely on our technical support. Experienced teleservice staff offers you more than just first aid: In many cases, under their instruction, you will manage to get your facility back up and running on your own and thus will be able to save the valuable time for the journey of a service technician to your works.



## PRODUCT RANGE

A multitude of cleaning systems are available for aqueous media:

**Multichamber immersion facilities.** These facilities always find application when ever high throughputs, large batch weights, complicated part geometries and complex multilevel processes are involved. The configuration as well as the accessory range is tailored in each case to customer requirements.

**Single chamber flood cleaning facilities** are, with their compact exterior dimensions and optional features, such as ultrasound, pressure bath circulation and hot air and/or vacuum drying, the all-round solution for practically all applications.

**Pass-through spray cleaning facilities** are principally intended for inline parts cleaning as part of the manufacturing process. From simple designs to intermediate cleaning and extending to complex multistage final cleaning systems, the systems can be matched to your individual requirements.

**Rotary transfer cleaning facilities,** employing a spray and/or immersion process, are ideal for integrating into manufacturing lines for the cleaning of individual parts due to their low space needs and short cycle times.

In the field of solvent cleaning technology **single chamber flooding systems for non-chlorinated hydrocarbon cleaning agents and modified alcohol** are available. The facilities are operated under vacuum, meaning that the cleaning can be effected with the respective medium above its flashpoint. This means that optimum cleaning and drying results can be achieved and technical safety requirements fulfilled.

Alternatively, **single chamber flooding systems for chlorinated hydrocarbons** with integrated process air treatment can be operated without exhaust air.

For **bath preparation** Roll offers a large range of technologies tailored to your individual requirements. Apart from classic filters, hydro cyclone filters or swarf scrapper conveyors can be employed for high swarf quantities.

Depending on the medium used, oil is separated via distillation, gravity or membrane technology. The rinsing bath of facilities for aqueous media can be cleaned via evaporator and/or ion exchanger units.

Roll also offers a multitude of automation options. These range from the simple automated charging and discharging unit up to complex basket transport, refilling and storage solutions.





## HOW TO FIND US

You easily can reach us via the A8 Motorway Karlsruhe-Stuttgart.  
Exit the motorway at Pforzheim-Ost via B 10 direction Mühlacker  
and leave it exit Enzberg.  
We are right next the B 10 in the industrial estate.

We look forward to welcoming you.



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