



YOUR TASK IS OUR PASSION

Tailor-made rubber extrusion technology
made in Germany

„Thanks to our experience in the field of rubber processing we design and manufacture customized extrusion lines tailored to our customers’ materials, products and process requirements.“

Christian Köhler
CEO & managing partner



Directors: Dr.-Ing. Christian Köhler (left) and Philipp Köhler (right)

For decades now the family business, rubicon Gummitechnik und Maschinenbau GmbH, has been a recognised specialist in the production of extrusion lines for the rubber and silicone processing industries. Then as today we are driven by the ambition to create innovative and high quality products perfectly tailored to your requirements.

Turning ideas into reality has been our passion for generations. Choose us as a reliable and competent partner and write your own success story!

Our expertise in the development, design and manufacturing of top quality extrusion equipment for the economically efficient and high quality production of industrial and medical rubber and silicone products, as well as products in the tyre and cable industries, is held in high regard all over the world. This is demonstrated not least by the fact that we export 80 per cent of our production.

rubicon supports you from your initial idea through development and all project phases right up to the start-up of your customized line – and beyond as well. We continue to provide you with support over the entire life cycle of the machine. Working together with you we configure the required equipment and find a suitable solution tailored exactly to your requirements. In this way we provide all the means required to manufacture your products economically and to the highest quality standards, and to ensure the machine customized to your requirements has a long service life. We do everything possible to ensure that your machines and lines justify the trust you have placed in us.

YOUR PRODUCT

Do you have a particular product you would like to manufacture? Based on our wide-ranging experience we undertake the process design, the manufacturing, complete installation, start-up and process tuning of the complete production line used in producing the most diverse of products.

RUBBER



Hoses: Automotive and industrial hoses, cooling water hoses, air conditioning hoses, brake hoses, hydraulic hoses, industrial hoses, special hoses



Profiles: Automobile and construction profiles, coextruded profiles, metal-reinforced profiles, profiles with variable sections, wiper blades

Cables: Single layer cables, multilayer cables



Tube coverings: Roller covering, printer rollers



Industrial rubber products: Rubber sheets, textile-coated rubber sheets, insulation and sponge panels, strained mixing strips

SILICONE



Medical applications: Catheter tubes, coextruded hoses, coextruded profiles, drainage tubes



Industrial applications: Profiles, sponge profiles, textile coating (laminating), panels, production of semi-finished products (silicone blocks)



Cables: Single layer cables, multilayer cables

OUR SOLUTIONS

We manufacture for you individual machines, lines or turnkey projects for the production of selected rubber products in accordance with the required national and international standards.

We specialise in: extruders for processing rubber compounds, extrusion heads for the production of profiles, hoses and cables, special heads customized to customers' specifications, continuous vulcanization lines, material feed and downstream equipment, rubber technology and turnkey projects, laboratory equipment and mixing mills. The quality results achieved in the laboratories of many major rubber manufacturers are due in large measure to the use of rubicon laboratory equipment and special machines. A selection of our products is set out in the following programme:



EXTRUSION

Extruders

Standard extruders, silicone extruders, pin barrel extruders, vent extruders, coextruder systems, extruder-gear pump-combinations, compounding extruders

Extrusion heads

Straight heads, cross heads, sheathing heads (for hoses, pipes and rollers, cables), coextrusion heads, triplex heads, preform heads, slit tube heads, rheometer heads, strainer heads, special heads



VULCANIZATION

RUBBER

Salt bath vulcanization lines

Electrically heated, gas-heated, salt recycling systems, washing and cooling lines

Microwave/hot air vulcanization lines

Electrically heated, gas-heated

Hot air vulcanization lines

Electrically heated, gas-heated

SILICONE

Infrared shock tunnels

Vertical or horizontal tunnels

Infrared/hot air vulcanization lines

Electrically heated, gas-heated

Cable tunnels

Curing ovens

Laboratory mills

Extruders

with/without gear pumps, with/without rheometer heads, including evaluation software

Cooling lines

Cooling devices, drum cooling units, belt cooling lines, air cooling lines, water chillers



LABORATORY EQUIPMENT

Transport systems

Discharge conveyors, caterpillar take-off units, pull-off double capstans

Coating devices

Powder coating lines, siliconising units, application unit for release agents, flock coating lines

Packaging

Winding systems (horizontal/vertical) with/without accumulators storage stations, cutting machines, pelletising lines, blank cutting systems



DOWNSTREAM EQUIPMENT

Labelling

Inkjet printers, laser marking systems

Surface pretreatment

Infrared preheat tunnel, plasma processes, application unit for bonding agent

Measurement, inspection and controls

Diameter gauges, tension controls, length measuring systems, slack control systems, wall thickness gauges, spark testers, defect identification and marking systems

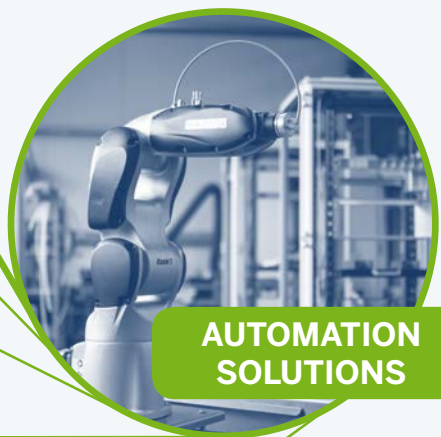
Switch cabinet construction

Handling systems

Robot and weighing technology

Integration into company networks

Remote maintenance systems



AUTOMATION SOLUTIONS

Central control and monitoring of all line components

Intuitive process visualisation, production order management, recording of all system parameters and measurement results, data archiving, product traceability solutions



SERVICES

We are committed to each step of the process manufacturing your extrusion line.

1. Knowledge needs ideas to which it can be applied. We therefore see the work we undertake with you as a team task.
2. From your first contact with us our experts will provide you with technical advice on your project. A dedicated contact person will be on hand to provide you with comprehensive support throughout the project.
3. We work with you in testing products and machines in our extrusion pilot plant laboratory in order to optimise their design.
4. Working together with you we configure the required equipment and find a suitable solution perfectly tailored to your requirements.
5. Our rubber technologists, technical designers and software specialists work closely together to optimise the development of our machines.
6. Our high-quality production process follows on directly from the design stage, cutting out any delay - thanks to our in-house production.
7. In collaboration with you we subject the new line to an exhaustive test run before delivery.
8. Installation at the production site is followed by the test production phase including the training of your personnel.
9. Our optional service and maintenance agreements will ensure your lines are expertly maintained to give you valuable service over longer than average periods.
10. Our parts management, remote maintenance and service calls, as well as technological support, will maintain your machine over its entire life cycle.

QUALITY

The value of a piece of work is demonstrated by its outcome – and by a process that everybody is satisfied with.

Our aim is to meet your requirements for top quality extrusion products which are manufactured on our extrusion lines. A sophisticated quality management system is therefore used to manage your project from one source.

A key element in achieving the above aim is the close cooperation between rubicon's rubber technologists, technical designers and software specialists, and our qualified production and commissioning personnel. This creates solutions combining wide-ranging know-how with practical experience, thereby contributing to the improvement of the quality and development of our machines and lines. We also attach the greatest importance in ensuring that every stage of development and production is carried out to the highest quality standards. We achieve this by ensuring that all internal and external processes are perfectly coordinated. Working within the guidelines of quality management system DIN EN ISO 9001, we continuously strive to optimise our business processes, in order to maintain the quality and functionality of our products. Technical competence, complete reliability and a focused professional approach are the hallmarks of our work.



Worldwide agencies

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