

# THE MODULAR SOLUTION.

engineering with precision

# INNOVATIVE SOLUTIONS. INTELLIGENT TECHNOLOGIES. WORLDWIDE.

GERMAN QUALITY MACHINERY  
FOR THE GENTLE, CLEAN AND  
PRECISE PROCESSING OF RUBBER,  
SILICONE AND POLYMERS FOR A  
WIDE RANGE OF APPLICATIONS

This is the core competence of UTH GmbH. Since 1985, we have been providing innovative solutions and intelligent technologies for the rubber, tyre, silicone, sealant and adhesive industries worldwide – as serial machines, system solutions or individual, customised machines. We are continuously expanding our product portfolio and utilise our application competence to drive new developments.



## WHAT DRIVES US

# TRUST. FAIRNESS. INNOVATION.

THIS MAKES UTH GMBH A  
RELIABLE PARTNER ON AN  
INTERNATIONAL LEVEL

We deliver much more than just  
a machine. Together with our  
customers we develop process  
engineering solutions.





## VALUES PROVIDE STABILITY. TEAMS PROVIDE STRENGTH.

### UTH IN FOCUS

UTH GmbH is an owner-managed, medium-sized company with headquarters in Fulda, Germany, and subsidiaries in the USA, China and Japan. Our worldwide sales and service network offers customer proximity on a global level.

Since its foundation in 1985, UTH has stood for expertise, experience and continuous innovation in the rubber and silicone industry. We have set global standards with the **roll-ex**® extrusion system:

Our fine mesh straining solutions ensure clean rubber and less waste and the **roll-ex**® extrusion technology achieves the highest level of precision in rubber processing.

Depending on the desired implementation, UTH offers a modular system that enables straining inline using TRF or DSE and offline using TRF or SF, according to the specific task.

Thanks to the volumetric principle, **roll-ex**® gear pump technology also enables the precise dosing of highly viscous polymers. Combined with a conical twin-screw extruder, we have developed a key technology for plasticising and dosing raw materials in continuous mixing processes.

UTH thinks ahead – also in terms of sustainability. With the innovative TRP technology we have developed an efficient single-stage process for return material in the tyre industry. In many recycling processes, UTH machines have become indispensable.

A LOT HAS CHANGED SINCE UTH WAS FOUNDED. BUT WHAT CONTINUES TO DRIVE US FORWARD, ARE OUR VALUES:



## THIS IS WHAT MAKES US STRONGER FOR THE FUTURE.

### SUSTAINABILITY

We continuously optimise and develop resource- and environmentally friendly internal processes, consistently avoiding emissions and pollution, which meets environmental standards such as DIN ISO 14001. We are also a member of the sustainability initiative Blue Competence.

### ENERGY EFFICIENCY

Our mission is the development of technologies which conserve resources and reduce emissions through energy savings of up to 70% and close material cycles in a sustainable manner.

### SOCIAL RESPONSIBILITY

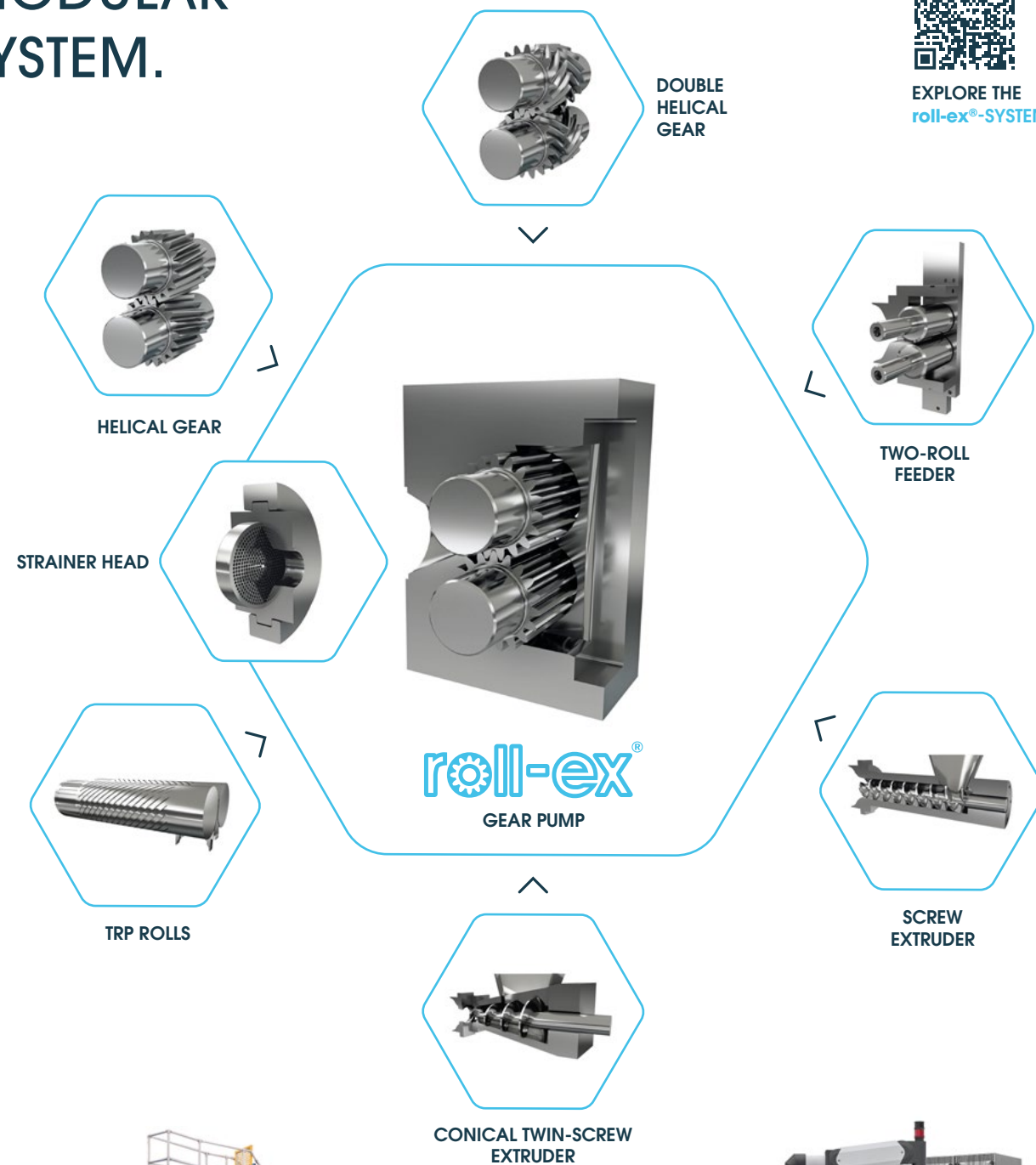
Our responsibility extends to our community, our region, and especially our employees. Therefore, we support Fulda as a location, represent the values of a socially aware society and offer innovative trainee positions and jobs with real prospects.



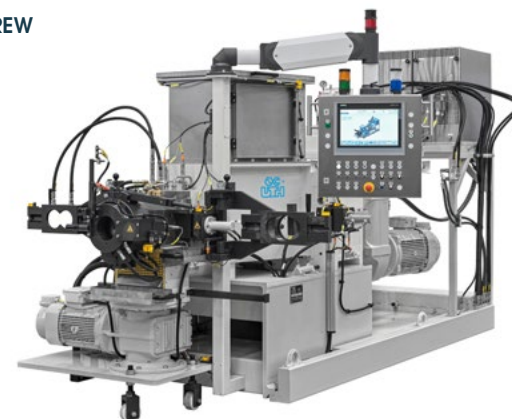
## MODULAR SYSTEM.



EXPLORE THE  
roll-ex®-SYSTEM



TWO-ROLL PLASTICISER: **TRP REWORKER**



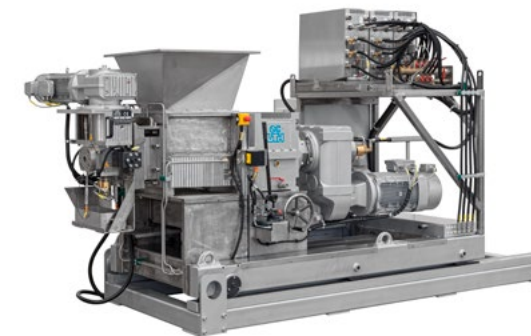
SILICONE COMPOUNDING: **MDSE**



FINE MESH STRAINING: **roll-ex® TRF**



PRECISE EXTRUSION: **roll-ex® SF**



POLYMER DOSING SYSTEM: **roll-ex® PDSE**

## OUR TECHNOLOGY SETS GLOBAL STANDARDS.

A PIONEER IN THE FIELD OF GEAR PUMP TECHNOLOGY FOR FINE MESH STRAINING, COMPOUNDING AND DOSING OF HIGH-VISCOSITY MATERIAL.

The processing of highly viscous material presents industry with daily challenges. Our **roll-ex®** gear pumps are the solution for particularly gentle processing of highly viscous materials. The secret lies in the strictly volumetric conveying principle of the gear pump. This creates an even flow of material, regardless of the counter-pressure.

### roll-ex® GEAR PUMP TECHNOLOGY:

- Patented design of elementary components
- Modular concept for individual solutions
- Additional equipment for system solutions

# INDIVIDUAL AND APPLICATION-SPECIFIC SOLUTIONS

## TYRE APPLICATIONS

Quality and cost-effectiveness are our top priorities. We provide sustainable support to the tyre industry with innovative solutions and intelligent technologies such as the Two-Roll Plasticiser (TRP) and high-performance fine mesh straining solutions with capacities of up to 10,000 kg/h.

## RUBBER PROCESSING

Our many years of expertise in fine mesh straining and extrusion make us the technology leader for gentle rubber processing of the highest quality and optimal energy efficiency with the **roll-ex**® gear pump.

## SILICONE PROCESSING

In the demanding field of silicone compounding, we offer tailored solutions for both batch and continuous processes – from conical twin-screw extruders to TRP technology. The result: gentle mixing, maximum process reliability and consistent quality.

## POLYMER DOSING

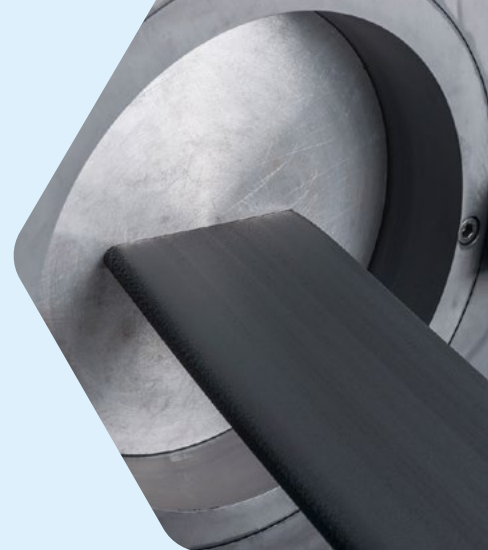
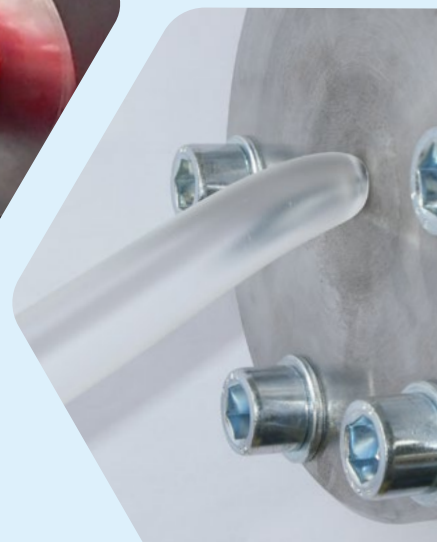
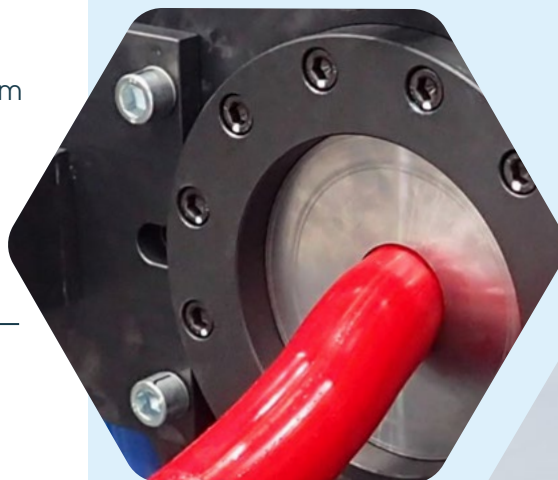
Our innovative polymer dosing systems for continuous processes enable the precise single-stage processing of sticky, low-viscosity and high-viscosity, ball-shaped polymers, combining efficiency and sustainable use of resources.

## OUR COMPETENCIES

### FINE MESH STRAINING & EXTRUSION

### COMPOUNDING & CONTINUOUS MILLING

### PLASTIFICATION & DOSING





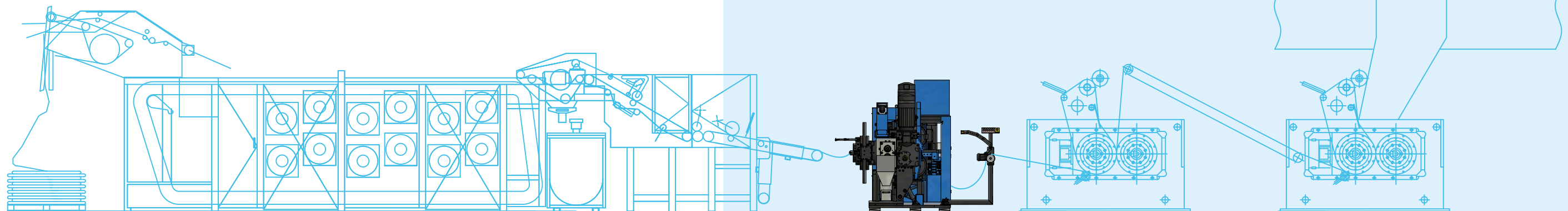
# THE WAY TO AN INDIVIDUAL SOLUTION.



## FROM DEVELOPMENT – TO PRODUCTION START – TO AFTER-SALES SUPPORT.

Based on our technology, customers do not simply receive a machine, but an innovative and jointly tested solution for processing rubber, silicone and highly viscous polymers. We take a holistic approach. We accompany our customers from the initial idea, through the testing phase and development, to the start of production.

At the **UTH TECHNICAL CENTER**, we offer our customers the opportunity to test our pioneering technologies and latest processing solutions with their own materials and products.



## UNDERSTANDING TASKS. DEVELOPING SOLUTIONS.

YOUR JOURNEY WITH US: PHASES  
OF PROCESS DEVELOPMENT WITH  
OUR CUSTOMERS.

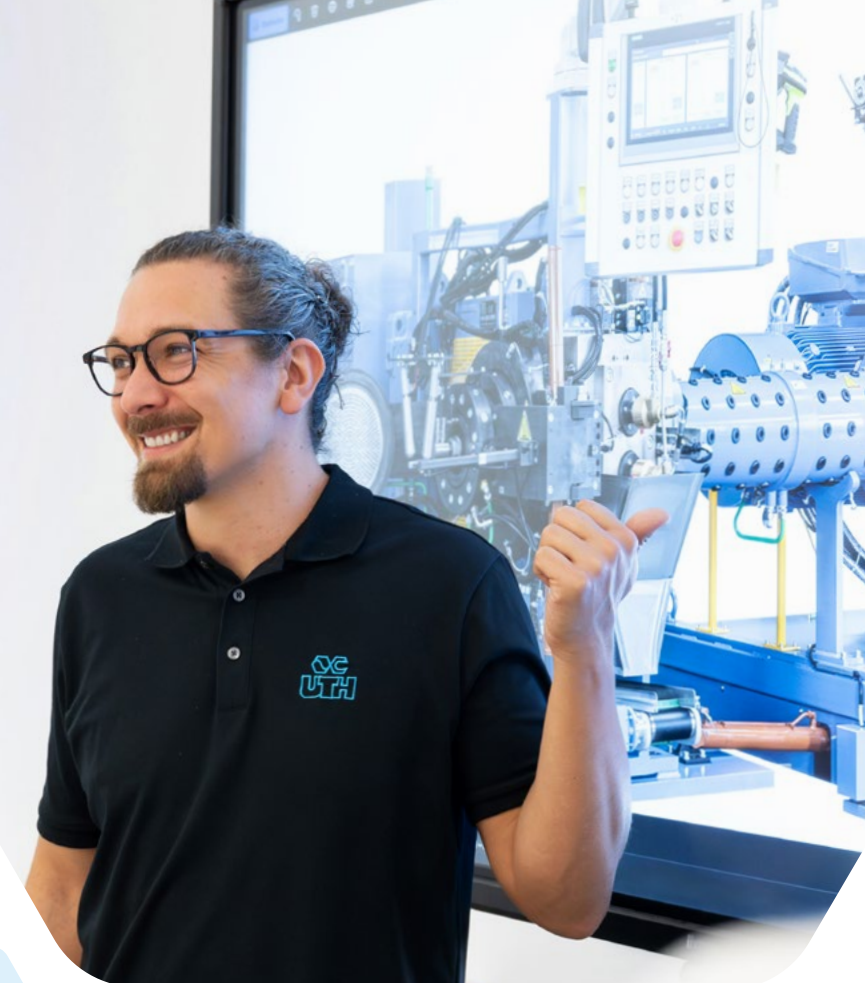
- Processing concept
- Test implementation
- Development
- Design
- Production
- Assembly
- After-Sales Service



# A PARTNERSHIP THAT LASTS. RELIABLY CLOSE.

## EXPERIENCE TRUST. SEAMLESS PRODUCTION.

In our After-Sales Service, we support our customers as a reliable partner together with our global partners and local UTH subsidiaries with quick solutions for every situation and a clear goal: to ensure seamless production.



### AFTER-SALES SERVICE

- Installation
- Commissioning
- Training of operators and maintenance personnel
- Spare parts supply
- Remote emergency service
- Repair and servicing
- Regular maintenance and inspection
- Predictive maintenance per request
- Process optimisation
- Visugraph V2 / Data Lox
- Customer proximity

UTH North America Inc.  
Fort Mill, SC

UTH GmbH  
Head Office, Fulda

UTH Extrusion & Service  
Shanghai Co. Ltd.  
Shanghai

UTH Japan  
Tokyo



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