



YOUR PARTNER FOR METERING AND
MIXING TECHNOLOGY

LIQUID SILICONE RUBBER



WHO WE ARE – AND WHAT WE STAND FOR

Joined materials – metals, glass, plastics and composites – is omnipresent in our world, countless products are manufactured from them. Bonding technologies have become more and more replaced traditional joining processes during recent decades, and Reinhardt-Technik is recognized as a pioneer of this trend.

What started in 1962 with a team of ambitious engineers has grown over half a century to a leading global supplier of metering and mixing systems with a proven record of innovative solutions on the market.

Our well received core competences are the processing of liquid performance materials for applications of adhesives and sealants, dispensing technology and surface treatment – combined with full systems integration and process control.

As a technology leader of adhesive and sealant processing we belong to J. Wagner GmbH since 2012.

Wagner is a leading manufacturer of surface technologies with more than 1,400 employees worldwide and headquarters in Markdorf near Lake Constance.

- > **Customer orientation**
- > **Partnership**
- > **Innovative products**
- > **Individual solutions**
- > **Automation**
- > **Reliable applications**
- > **Global service**

LIQUID SILICONE RUBBER

Nowadays almost everyone comes into contact with liquid silicone rubber (LSR). It can be found in many products that make our lives easier and more comfortable, such as baby pacifiers, shower heads, TV remotes, diving goggles, as well as many functional textiles.

More often it is used in industrial products such as insulators, membranes, gaskets, technical textiles, various medical devices and also in „highly transparent“ products, such as lighting components.

For the production of LSR products, injection molding is preferred because it provides the highest degree of automation as well as the greatest freedom in product design.

The injection molding process for LSR is similar to the thermoplastic polymers process. The main difference between these processes is the feeding and mixing of the two-component material at an ambient temperature.

LSR need to be very accurately processed and precisely measured and mixed in order to ensure an optimum result in terms of quality.

Constantly increasing demands for higher productivity and quality require reliable processing equipment and an appropriate quality control.

Reinhardt-Technik is therefore your preferred supplier of processing equipment in the LSR industry.

We offer a wide range of products to process liquid materials in different applications taking the manufacturing environment and local requirements into account.

Reinhardt-Technik is also a partner of significant injection molding companies as well as machine manufacturers, helping to optimize processes and find new solutions for the market – for the benefit of our customers.

We understand your needs and offer solutions in your interest:

- **Consistent quality based on constant mixing precision**
- **Reliable production by monitoring of the relevant process parameters**
- **Significant cost savings by perfect material utilization**

Learn more about manufacturing applications and get convinced about our products and system solutions - Made in Germany.



LSR VARIANTS

LSR eTwin



Optional **airtract** pump de-aeration system with material recirculation allows up to 90% material savings compared to manual venting.



Automatic aeration system for fast, safe and clean drum exchange.

The LSR eTwin represent the latest generation of 1:1 mixing and metering plants for Liquid Silicone Rubber. Constantly increasing demands for smaller shot sizes, higher productivity and quality require reliable processing equipment and an appropriate quality control. This product line comes with top-notch features which provide great operator comfort, higher efficiency and significant cost savings.

■ Material savings & increased efficiency:

Approx. 50% material savings compared to other electrical driven pumps, thanks to optimized follower plate incl. automatic de-aeration and optional pneumatic drum support. Simultaneous drum emptying possible. Roll-in device and drum locks for easy drum change, optional **airtract** automatic pump de-aeration.

■ High productivity & quality:

addControl - Additive metering control unit meters and controls exact color amount.

■ Industry 4.0 ready:

Flexible and future-oriented OPC-UA interface to provide all process data in a standardized format.

■ Comfortable operation & high process reliability:

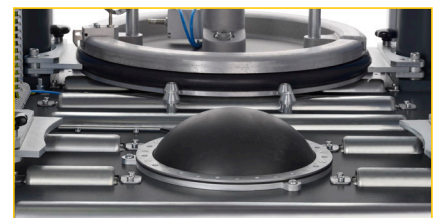
Intuitive controls and direct visibility of the process status.

■ Energy savings:

Servo-driven scoop-piston pumps save up to 80% energy compared to air-driven pumps.

■ Small footprint:

Compact design, easily moveable with forklift or hand truck.



Optional pneumatic drum support. Helps to save additional 50% of residual material.

› **Great level of operator comfort**

› **Higher efficiency**

› **Significant cost savings**



LSR Conti Mix

Powerful meter mix plant for high volume continuous LSR process impresses with a programmable control, including saving of various recipes, and variable discharge amounts for different volumes.



LSR 20 LC

Compact meter mix plant for LSR processing provides proven technology for an economic price.





BENEFITS

- Innovative solutions help to save material, increase productivity and enhance sustainability.
- Robust 2K processing system for reliable operation in demanding production environments.
- Easy handling due to operator friendly and ergonomic design.
- Optimized design and functionalities based on close cooperation with material manufactures.
- Standardized product portfolio provides on the spotservice and spare parts availability.

OPTIONAL PRODUCTS

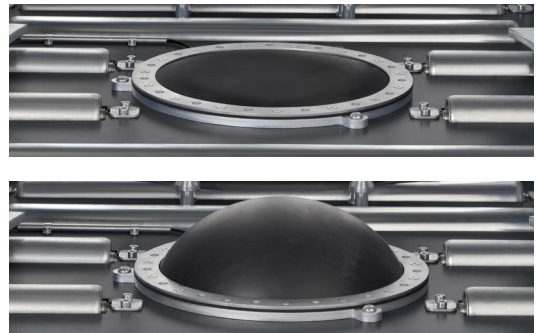
Drumlifter

Comfortable and easy handling of 200L drums.



Drum Support

Helps to save additional 50% of residual material.



Colour Feeder

Mobile paint supply unit with container cover for flexible use.



Material pressure tank

Material pressure tank for colours for a easy use and is available in different sizes.



Colours injection

Optionally up to two colours can be precisely added with the colours injection unit.



De-aeration system

Optional automatic pump de-aeration system **airtract** for efficient material use.



Additive metering control

The exact metering and controlling of the color amount with **addControl** improves quality and productivity.



OPC-UA interface

Flexible and future-oriented OPC-UA interface to provide all process data in a standardized format.





YOUR GLOBAL PARTNER IN LIQUID SILICONE RUBBER INDUSTRY

- Innovative metering and mixing systems for 2K Liquid Silicone Rubber
- Ambient or temperature conditioned equipment
- Systems for manual or fully automatic processes
- Innovative process control and verification