

Binks



We are
creating new
standards in
LSR dosing.

 LSR eTwin Connect

From standard system to customized solutions

RT LSR eTwin Connect

The RT LSR eTwin Connect represents the new generation of dosing & mixing systems for liquid silicone rubber.

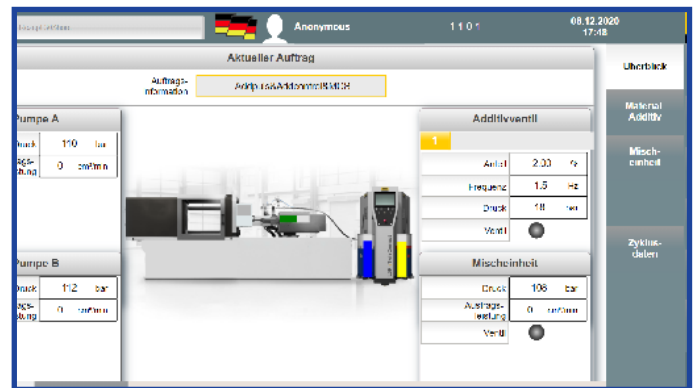
It meets the requirements for consistently high productivity and quality at both low and high shot weights. Thanks to the close cooperation with our partners, e. g. injection moulding machine manufacturers, LSR processors and material producers, the RT LSR eTwin Connect can impress with its features.



Benefits:

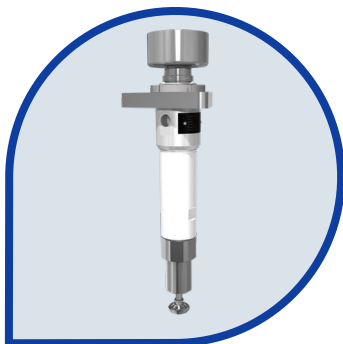
- Modern design
- Exact mixing ratio
- Up to 99.75%¹ material utilization enables cost savings through efficient material utilization
- Reliable operation thanks to process-safe and energy-efficient pump technology
- Pulsation-free volume flow improves product quality
- Ready for Industry 4.0
- Software always up to date thanks to updatable software
- Clear HMI thanks to 15.6" multi-touch display
- Process optimization
- Intuitive operation
- Easy maintenance of the system increases machine availability
- Includes automatic drum locking and user-friendly drum release

Control



- Intuitive HMI
- Clearly arranged multi-touch display
- Process data management
 - User management
 - Recipe management
- OPC-UA
- Machine status display
- Every language possible
- Remote maintenance
- Backup and restore function via USB
- FTP server for process data retrieval

RT LSR eTwin Connect

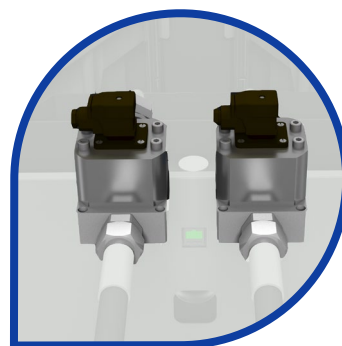


Pump technology

- Servo driven scoop piston pump
- Up to 80% energy saving compared to air driven pumps
- Process safe technology
- Process optimised (not perceptible changeover point)

ABControl (optional)

- Additional process monitoring
- Direct volume measurement of the individual components
- Automatic readjustment increases the accuracy compared to the unregulated version.



Follower plate deaeration



FManual

- Manual follower plate deaeration
- Can be used for all common LSR materials, preferably very low-viscosity LSR materials
- For viscosities up to 100,000 mPas

FPAuto (optional)

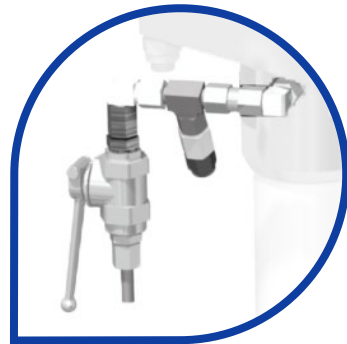
- Automatic follower plate deaeration
- Automatic aeration & deaeration system
- Fast, save and clean barrel change
- Alternative to manual follower plate deaeration
- For viscosities above 100,000 mPas



Pump deaeration

airManual

- Manual pump deaeration
- Operator determined
- Cost efficient solution



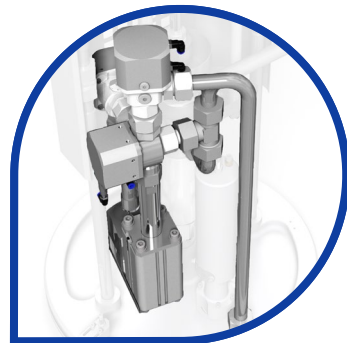
airAuto (optional)

- Volumetric pump deaeration
- Predefinable deaeration volume
- Semi-automation of deaeration process
- Alternative to manual pump deaeration (airManual) and to airTract



airTract (optional)

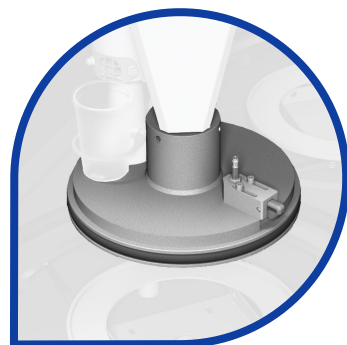
- Patented pump deaeration
- Up to 95%² material savings during deaeration process
- Cost saving
- Air free material flow
- Can be used with LSR materials up to 60 Shore A and a viscosity of up to 390,000 mPas



Barrel sizes

20 l follower plate

- For the processing of 20 l hobbocks
- For configuration as a pure 20 l dosing system or as a conversation kit to 200 l variant



Barrel sizes



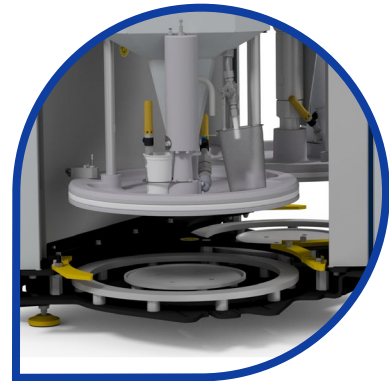
200 l follower plate

- For the processing of 200 l hobbcocks
- For configuration as a pure 200 l dosing system or as a conversation kit to 20 l variant

Barrel change

Drum ronde

- Standard system
- Applicable for 200 and 20 l drums

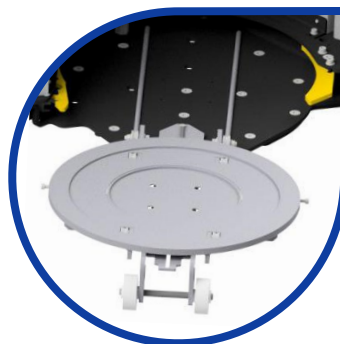


Barrel drawer (optional)

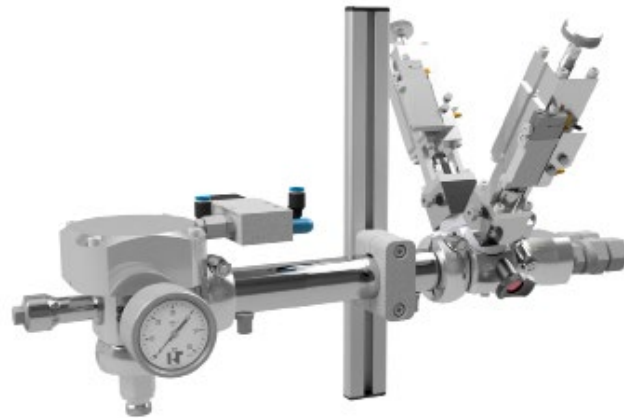
In many production facilities, there is only little space. it is therefore important to make optimum use of the available space. We invented a flexible system for barrel change for our RT LSR eTwin Connect.

With the drum insertion device the machine can be placed against the wall with a minimum distance of only 40 cm. The barrel is then changed by crane loading.

- Automatic drum lock
- Drum unlock by foot handling
- Ergonomic and user-friendly
- Via crane or drum lifter



Processing unit



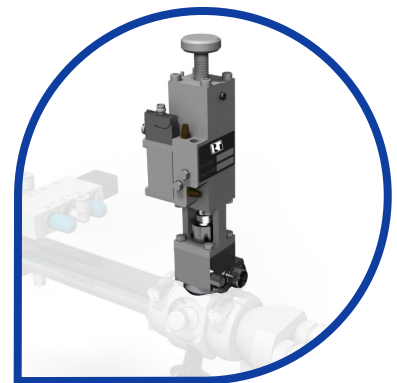
Benefits

- Easy maintenance
- Modular configuration
- Demountable with only one tool
- Integrated cooling system
- Snuffback valve
- High dosing accuracy with small shot sizes
- Up to 4 additives possible
- Tool free additive change
- Integratable material filter

Additive processing

Additive dosing valve

- Optional up to 4 additives possible
- Long-lasting
- Compact design

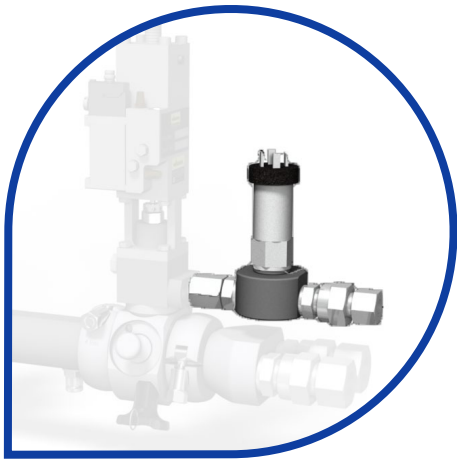


addPulse

- Dosing volume control
- Optimum valve setting
- Automatic additive setting
- Up to 20% higher accuracy compared to standard version
- Combinable with addControl and addPressure



Additive processing

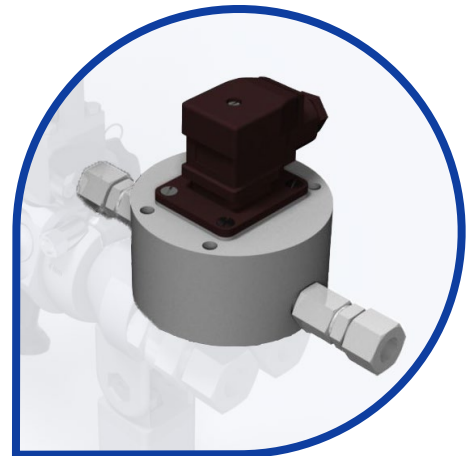


addPressure

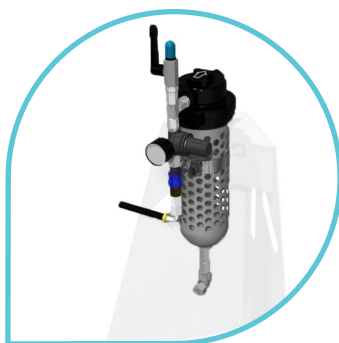
- Pressure monitoring
- One addPressure per additive metering valve provided
- Monitoring of additive supply pressure
- Increase of process reliability
- Combinable with addPulse
- Recommended for additives with high concentration of fillers
- Alternative to addControl

addControl

- Dosing volume control
- Direct volume measurement
- Continuous additive regulation
- Highest dosing accuracy and reproducibility
- Additive savings possible
- One addControl per additive dosing valve provided
- Combinable with addPulse



Additive feeding



Additive feeding mini

- Mobile additive feeding
- Easy handling of material pressure vessels for additives
- 1 l container
- Charging pressure up to 6 bar



Additive feeding midi

- Mobile additive feeding
- 10 l container
- Charging pressure up to 24 bar



Additive feeding maxi

- Mobile additive feeding from 20 l hobstock with drum cover
- Flexible use
- High charging pressure for long distances

RT LSR eTwin Connect HP

The LSR dosing system for particularly high productivity

High productivity is particularly important in manufacturing. The higher the productivity, the more parts can be produced at the same time. A high flow rate can increase the productivity.

This is exactly what the high-performance version of the RT LSR eTwin Connect is all about. The powerful drive of the RT LSR eTwin Connect HP can dispense up to 3 l/min. This makes it particularly suitable for use in moulds with a large number of cavities. Alternatively, the RT LSR eTwin Connect HP can be used to produce large products.

- Areas of application
 - In combination with an injection molding machine
 - Casting of large components
- Footprint corresponding to the standard system



Further LSR variants

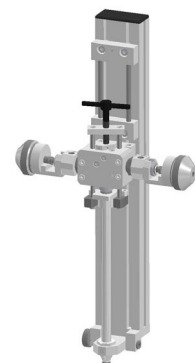
Tandem version

- No production stop due to barrel change
- Gain of production time (min. 10 minutes per barrel change compared to single version)
- Every machine can also be used individually



Dosing with Gamma Mix

- For coating applications
- Dosing directly via the Gamma Mix outlet unit
- No processing unit required
- No injection molding machine required



Customized LSR solutions

Central material supply

Do you have several injection molding machines that are all supplied with the same LSR material? If so, you can optimise the cost of your injection moulding production by centralising your material supply.

Customer requirements:

- Reduced system costs: Reduce your operating costs sustainably.
- Space-saving: Make optimum use of the available space.
- Reduced personnel costs: less effort, lower personnel costs

Solution:

RT LSR eTwin Connect: The LSR material is conveyed to the dosing modules with an LSR eTwin Connect in tandem configuration.

Piston dosing system Vecdos: The Vecdos doses the material into the injection molding machines.



Customized LSR solutions

Open casting of silicones

If parts are to be made from LSR that are too large to be produced with an injection molding machine, the material can be casted open.

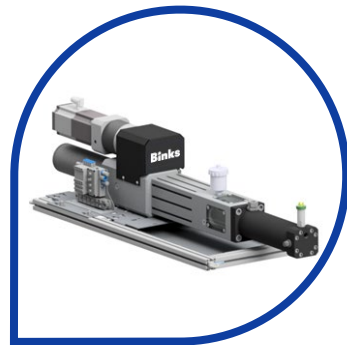
Our solution is a combination of the RT Vecdos piston feeder and the RT Feeder system.



Components

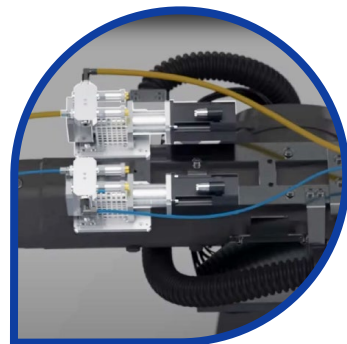
Shot metering unit RT Vecdos

- High discharge capacity combined with high pressure potential
- Continuous filling process thanks to tandem design
- Precise and reliable dosing
- High dosing accuracy
- Compact design
- Individual parameterization of each dosing unit



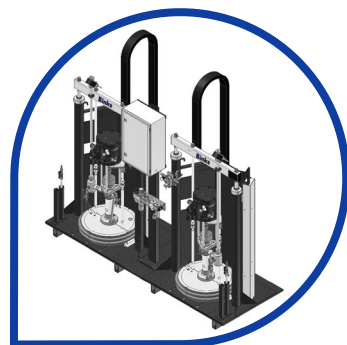
Gear metering pumps RT Conti Flow

- Gear pumps enable continuous dosing
- Compact design
- For liquid to highly viscous materials



Feeding system RT Feeder

- Continuous dosing
- Tandem feeder enables standstill-free operation



Accessories

Drum lifter

- Automatically closing drum clamp
- Simple option for ergonomic drum change
- Recommended solution for every drum change



Drum plier

- Suitable for drum change with crane
- Space-saving drum change
- Ergonomic handling



As your partner for LSR dosing, we offer specific solutions for your application.

¹ depending on various factors, e.g. material properties and other parameters

² compared to manual venting



Experience the difference.

Your global partner in LSR industry.

Processing single or multi-component liquid performance materials for bonding, sealing, casting and encapsulation as well as surface treatment applications combined with system integration and process control are our well recognized core competences.

Binks

For more information,
visit reinhart-technik.com.



A powerful solution can start with a simple conversation.

We want to help build the best solution to your application challenges.

Learn more about what we can offer.

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