

Made in Baden-Württemberg

Our precision mixers are the result of our total commitment to quality, innovative technology, years of experience and consistent further development of tried and tested systems.

MIXING AND MONITORING UNIT

Typ MM0902

Advanced emulsion control at the highest level

The new mixing and monitoring unit sets standards in automated emulsion supply and control. With intelligent control, flexible parameterization, and well-designed monitoring technology, the system offers a reliable and precise solution for a wide range of production requirements. It enables progressive, accurately controlled mixing of emulsions for up to five machines simultaneously, ensuring homogeneous quality. All relevant parameters—such as temperature and concentration—are continuously recorded, stored, and can be accessed at any time via a 7-inch HMI display.

Whether around the clock or at individually defined intervals, the monitoring level of each connected machine can be freely configured. The system is complemented by powerful online functionality: settings and control functions can be performed remotely from anywhere in the world. An integrated signal light and a text-based fault and maintenance display on the



Mixing and monitoring unit

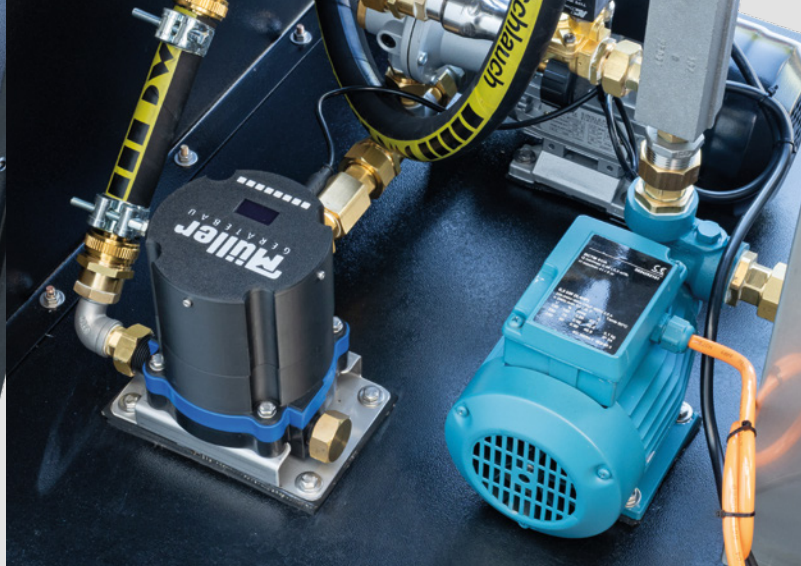
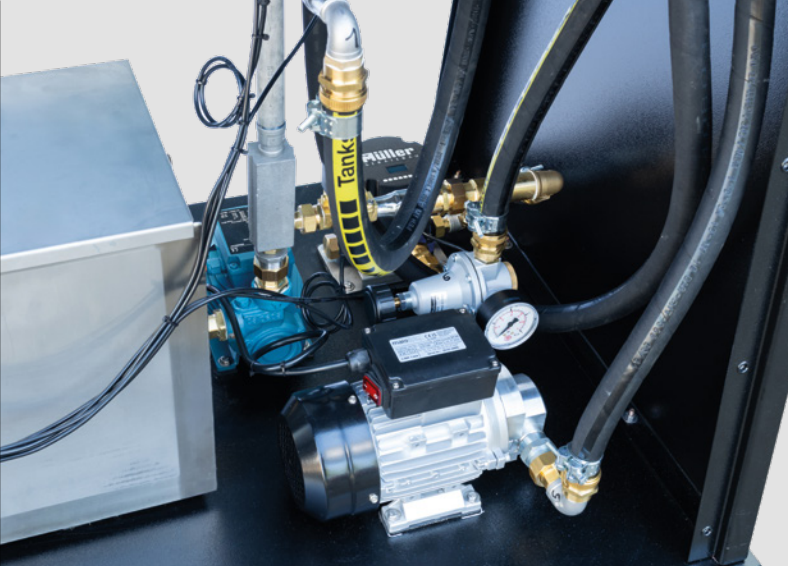
screen additionally ensure maximum transparency and operational safety. Looking ahead, the device will be expanded with functions to measure pH value and conductivity—providing even more control and process security.



Features:

- Automatic mixing and monitoring of emulsions
- All parameters can be freely adjusted for each individual machine
- Monitoring of individual machines can be freely selected, whether »24/7« or only once a week
- The measured values are saved so that they can be retrieved at any time
- It has online monitoring, and system parameters can be adjusted and monitored from anywhere in the world
- Furthermore, the emulsion mixing is progressively and intelligently programmed, resulting in a precise, homogeneous mixture
- Basic model up to 5 machines with one system mixing and monitoring
- In the near future: pH and conductivity measurement
- Current: Temperature, Concentration
- All values and measurements are digitally displayed on the 7" HMI
- Faults or maintenance are also displayed as text on the HMI, as well as with a rotating beacon (red/green)





Advantages:

Precise dosage

- Exact mixing ratios through automatic control.
- Reduces over- or underdosing, minimizing costs and risks.

Constant quality

- The mixing ratio remains stable at all times – regardless of the operator.
- Ideal for standardized processes or quality requirements.

Increased occupational safety

- Less direct contact with concentrates or chemicals.
- Reduces risk of skin contact, inhalation or mishandling.

Time saving

- No more manual mixing necessary.
- Faster workflows through automated processes.

Cost savings

- Efficient use of concentrates.
- Less material waste due to overdosing.

Automatic monitoring

- Control of parameters such as temperature or mixing ratio.
- Warnings for deviations or errors, such as empty barrels

Traceability | Documentation

- Logging of mixing processes or consumption.

Environmental protection

- Resource-efficient use of chemicals.
- Optimized use of concentrates saves resources and reduces the production and transport of chemicals.
- Less consumption = less frequent repurchases = fewer canisters, barrels or IBC containers..
- Saving water, chemicals and energy through optimized process control.



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Client control for machine connection

Installed on each machine to be monitored, the client control communicates directly with the main system (see image on page 1). It manages the automated measurement cycle via an integrated pump and is equipped with a tank level switch, an overfill protection, and solenoid valves for fully automatic operation.

