

SICOMIX

Dynamic Foam Mixing System

Functional range of SICOMIX

- Carpet industry
- Non-woven industry
- Paper industry
- Mattress industry
- Textile industry



Main Tasks

- Continuous foaming of liquids and low viscous pastes
- Product saving foaming by dynamic low-shear mixing heads
- By using additional dispensing units additives can be formulated highly accurately in the foaming process



SICOMIX for mattress production

- SICOMIX with ZnO, DPG and NSF injection, climatic control cabinet
- Dynamic blender to mix foam with NSF
- Dynamic foam buffer

Advantages

- All components coming into contact with the product are made of stainless steel
- Easy to maintain housing
Pumps and mixing heads are easily accessible
- Large selection of radial and axial mixing heads and blenders
- Fully automatic procedure as a result of using the most up-to-date process computers
- High level of flexibility because of its modular structure
- Low power consumption through use of modern gear motors
- Very quick air control (<math><300\text{ms}</math>).
Stable foam weight regardless of product throughput changes or fluctuation in the air supply.



SICOMIX for non-woven and textile industry

Basic equipment

- Fully automatic foaming of a liquid or low-viscous paste with a gas.
High-quality measurement sensors together with a quick control engineering ensures a constant foam weight over the total working area.

- Dry-run protection of all product pumps and additive pumps
- A Siemens Step 7 300 CPU controls the process
- Display of all production related process data on a color operation panel
- System speed synchronization

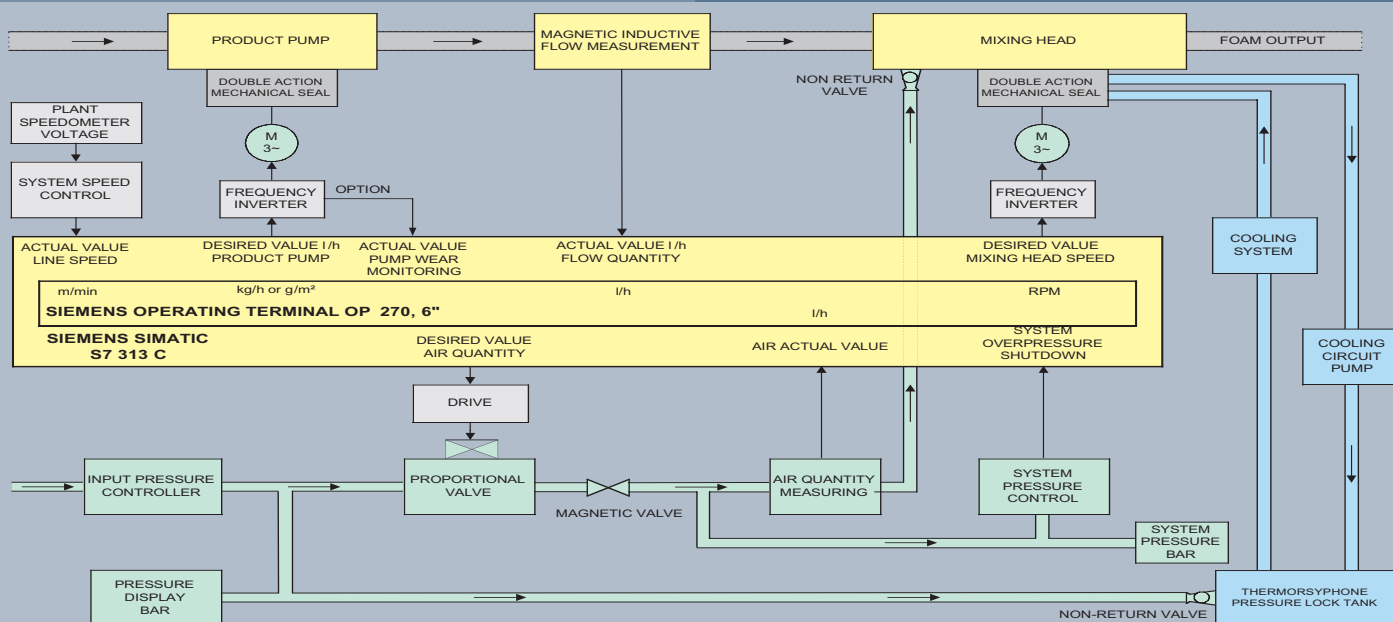


Optional equipment

- Automatic mass-/density measurement
- Shaft seal for mixing head and pump alternatively stuffing box seal, double acting stuffing box seal, lip seal or double acting mechanical seal
- Passive or active cooling of the shaft seals
- Level control of the foam bank, optional control of the throughput power or the foam weight
- Twinbank-level control, filling of two foam banks with one mixer

- Up to 9 additive units can be adapted, each additive unit contains a complete measuring and control system
- Depending on the application several radial and axial mixing heads and blenders are available
- Remote control
- Process data recorded using a printer
- High efficient rinsing automatic
- Connection to a process control system (Ethernet, Profibus)
- Formula management

Functional diagram



Technical data

- Product throughput *
 - 10 - 100 l/h
 - 20 - 200 l/h
 - 60 - 600 l/h
 - 120 - 1200 l/h
 - 300 - 3000 l/h
 - 500 - 5000 l/h
 - 900 - 9000 l/h
- Product density * Project-related in g/l
- Product viscosity * max. 8000 mPa*s
- Foam weight * Project-related in g/l
- Mixing head revolutions 50 - 300 rpm
- Air consumption Project-related
- Weight ** 350 - 1200 kg
- Dimensions (L/W/H)
 - Single head system ** 2200/1000/1800 mm
 - Double head system ** 2200/1500/1800 mm
- Power supply 400 V/50 Hz
- Power consumption ** 1,7 – 6,5 kW
- Mixing head types
 - MÜ1 radial, 258 Pins
 - MÜ2 radial, 427 Pins
 - MÜ3a axial, 594 Pins
 - MÜ3c axial, 1260 Pins
 - MÜ3u (Blender) axial, 396 Pins
 - MÜ4 axial, 1404 Pins
 - MÜ5 radial, 497 Pins
 - MÜ6 (Three chamber sandwich) radial, 1371 Pins

* The data relates to the standard versions. Other data is also possible on request.

** The data depends on the type of housing or mixing head used.

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