

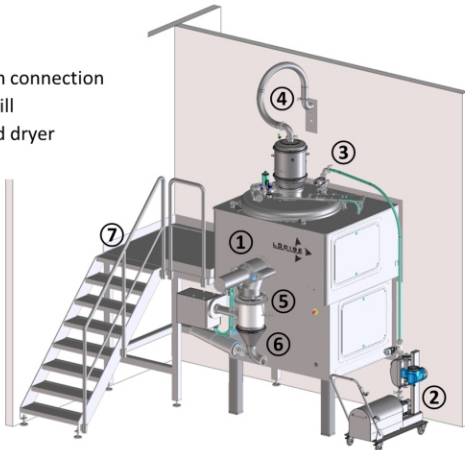


High Shear Mixer MGT for pharmaceuticals, cosmetics and food products

- GMP design with straight surfaces
- Modular WIP-System
- Multiple possibilities for liquid addition
- New pharma compliant control system
- Temperature control jacket for heating / cooling
- Integrated sieve mill at machine's discharge
- Vacuum feeding system
- Customized ATEX-solutions for explosion protected design

High Shear Mixer MGT for pharmaceuticals, cosmetics and food products

- ① MGT housing
- ② pump station
- ③ liquid addition
- ④ aspiration / vacuum connection
- ⑤ discharge / sieve mill
- ⑥ transfer to fluid bed dryer
- ⑦ operator platform



Sample MGT installation with various options



Mixing impeller and chopper

High Shear Mixer MGT

The high shear mixer MGT is designed for mixing, granulating and sieving of pharmaceuticals powders, granules and a wide range of cosmetics and food products. A three-arm mixing impeller rotates close to the wall and bottom of the vertical, cylindrical mixing drum. The shape and peripheral speed of the impeller are coordinated in such a way that the product forms a vortex. This achieves short mixing times, excellent homogeneity and enables a buildup of granules. A separately driven chopper unit disperses any lumps in the product, ensures uniform moistening and granulation of the powders. Liquid addition is carried out with a pump or by gravity. The liquid is added into the mix right above the chopper which achieves best possible distribution. The optional wet sieve calibrates the wet granules while discharging from the mixer. Discharge can take place into a vessel or product can be transported pneumatically to a Fluid Bed Dryer.

Sizes

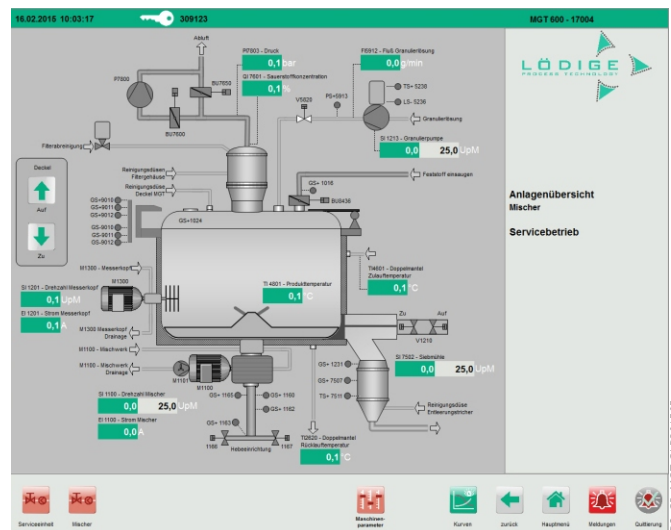
Type	Working capacity [liter]
MGT 30	8 - 24
MGT 70	18 - 56
MGT 125	31 - 100
MGT 250	63 - 200
MGT 400	100 - 320
MGT 600	150 - 480
MGT 900	225 - 720
MGT 1200	300 - 960

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New pharma control system

The PC/PLC-based control system is equipped with the SCADA system WinCC and designed CFR 21 Part 11 compliant. The new designed user surface enables an intuitive machine control in service and automatic mode for production or cleaning processes. All parameters, graphs and messages are indicated on the screen. A batch documentation takes place as hard and soft copy. For warnings and alarms the whole screen is highlighted in specific colors for getting an immediate operator attention.



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