

LABORATORY MIXING GRANULATOR WITH INTERCHANGEABLE VESSELS



- Mixing and granulating in one single unit
- Interchangeable vessels with 1, 5, 10 or 15 l volume
- Design in compliance with GMP
- User-friendly, integrated control unit
- System ready to run



MGTL with 1 l vessel



View into the 5 l vessel with chopper



1 l vessel with PTFE inlet for feeding and thermometer

Laboratory Mixing Granulator with interchangeable vessels

The Laboratory model MGTL is an innovative new development and completes the practice-proven range of Lödige Mixing Granulators. The same process steps can be carried out in the Laboratory Mixing Granulator as in production machines:

- Mixing
- Moistening
- Granulating

The MGTL is supplied ready to run with CE declaration of conformity.

Mode of Operation

A three-arm mixing impeller rotates close to the bottom of the vertical, cylindrical mixing vessel causing the product to circulate like a vortex. Mixing times are minimum and the mixing quality is excellent, even if the properties of the product components are extremely different. If necessary a separately driven chopper (5, 10 and 15 l vessels only) disagglomerates any lumps in the product, ensure uniform wet granulation and provides streak-free intermixing of colorants, for example in the cosmetic industry.

Sizes

Mixer type	Total volume in litres	Working volume in litres	Drive power in kW
MGTL 1	1	0,9	2,85
MGTL 5	5	4,5	2,85
MGTL 10	10	9	2,85
MGTL 15	15	13,5	2,85

Range of Application

Functions and equipment make the MGTL the ideal Mixing Granulator for product and process development and for production of small batches in the following industries:

- Pharmaceutical industry
- Spices industry
- Cosmetics industry
- And others



Sample product: tablet masses

Standard Equipment

- Product contact parts: Stainless steel 1.4404 (equivalent to AISI 316 L) polished surface; surface roughness < 0,8 µm
- Housing: stainless steel 1.4301 (equivalent to AISI 304)
- Ratio diameter/height of vessels enables extrapolation to production machines
- Liquid addition with airless nozzle
- Control unit with Touch Screen panel
- Rotation speed of the mixing impeller can be regulated depending on the size of vessel
- Operating voltage: 400 V, 50 Hz, three-phase
- Qualification documentation DQ, IQ,OQ (in German or English)
- Product temperature and power consumption measurement to define the final point of granulation

Optional Equipment

- Interchangeable vessels 1, 5, 10 and 15 l
- Chopper unit (for 5, 10 und 15 l vessel)