Universal Tabletop Mixer Granulator TMG

What do you need in an innovative lab Mixer/Granulator?

- A cGMP compliant design
- Small size
- Heating/Cooling capability
- Easy Charging/Discharging
- Easy & efficient Cleaning
- Interchangeable working vessels
- PLC control easy to operate
- Display of critical process parameters

New

- Process control, display and evaluation of all data via integrated touch screen Windows PC (option)
- Extern data handling via USB port (option)

Both vessel types with integrated agitator and chopper, available in single-wall or jacketed design

TMG on moveable table with Mitsubishi control

Spray nozzle for binder addition

Cylindrical vessel

Conical vessel

Control and data evaluation via touch screen-PC; Data storage via USB

Measurement of product temperature
# Universal Tabletop Mixer Granulator TMG

## Technical Data

(Subject to change)

<table>
<thead>
<tr>
<th>Drives</th>
<th>Laboratory unit Tabletop Mixer Granulator TMG 1/6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gross volume</td>
<td>dim³</td>
</tr>
<tr>
<td>Working volume</td>
<td>dim³</td>
</tr>
<tr>
<td>Outer rotor diameter</td>
<td>mm</td>
</tr>
<tr>
<td>Rotor speed (stepless)</td>
<td>r.p.m.</td>
</tr>
<tr>
<td>Motor power</td>
<td>kW</td>
</tr>
<tr>
<td>Chopper speed (stepless)</td>
<td>r.p.m.</td>
</tr>
<tr>
<td>Motor power</td>
<td>kW</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Weights</th>
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</thead>
<tbody>
<tr>
<td>Length</td>
<td>mm</td>
</tr>
<tr>
<td>Height</td>
<td>mm</td>
</tr>
<tr>
<td>Width</td>
<td>mm</td>
</tr>
<tr>
<td>Weight (unit empty)</td>
<td>kg</td>
</tr>
</tbody>
</table>

**Mains connection:** 400 V / 3 Ph / 50 Hz (others upon request)

**Material:**
- product contacting metallic parts made of stainless steel AISI 316 L
- other metallic TMG parts made of stainless steel AISI 304

**Surface finish:**
- product contacting (interior): polished < Ra 0.5 µm
- exterior: ground < Ra 1.2 µm

**Protection class:** drive assembly and unit control in non-Ex-execution and IP 54.

**Control:** Programmable Logic Controls (PLC)

- Agitator ON/OFF and preselection of rotation speed
- Chopper ON/OFF and preselection of rotation speed
- The mixing time is adjustable.

**Display of following parameters:**
- Actual agitator speed (r.p.m.)
- Actual chopper speed (r.p.m.)
- Product temperature (°C) - optional

**Options:**
- Control by means of an integrated Windows-PC via touchscreen display (Beckhoff) and display of all process curves
- Data interface for transmission of all relevant parameters (USB) incl. USB stick
- Torque recording at the frequency inverter
- Measurement of product temperature
- Spray nozzle for binder liquids
- Hose dosing pump
- Moveable stainless steel laboratory trolley