

# 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
- N** • Process control, display and evaluation of all data
- e** • via integrated touch screen Windows PC (option)
- w** • Extern data handling via USB port (option)



or



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



TMG on moveable table with Mitsubishi control



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



Measurement of product temperature



Spray nozzle for binder addition

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## Technical Data

(Subject to change)

		Dim.	Laboratory unit				
			Tabletop Mixer Granulator <b>TMG 1/6</b>				
Working vesse	Gross volume	dm <sup>3</sup>	0.5	1	2	4	6
	Working volume	dm <sup>3</sup>	0.1 - 0.4	0.3 - 0.8	0.5 - 1.6	0.8 - 3	1.2 - 4.5
	Outer rotor diameter	mm	132	168	188	208	228
Drives	Rotor speed (stepless)	r.p.m.	50 - 1000				
	Motor power	kW	1.1				
	Chopper speed (stepless)	r.p.m.	300 - 3000				
	Motor power	kW	0.37				
Dimensions Weights	Length	mm	approx. 955				
	Height	mm	approx. 675				
	Width	mm	approx. 515				
	Weight (unit empty)	kg	approx. 140				

**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)  
*Panel operations via display :*

- 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



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