



Micro feeder RotoTube 2.0



Volumetric und gravimetric

General Information

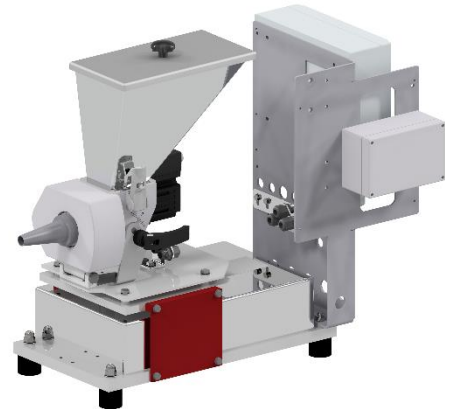
The [RotoTube](#) screw feeder is capable of reliably feeding granules as well as fine-grained bulk ingredients in the gram range.

The feeder has the following main components: a freestanding chassis/weighing system combination, an aluminum housing, a rotary tube, a [DC smart motor](#) and an extension hopper for storing bulk material.

The RotoTube is easily disassembled for wet or dry cleaning, whereby the hopper is detached from the fixed housing by means of quick-release fasteners and pulled off. The RotoTube is equipped with a tilting device for stepless tilting of the rotary tube to adjust the output as required.

The gravimetric version includes the [weighing system MDO](#) featuring a high resolution digital load cell with serial data transmission with a strain gauge load cell with advanced filtering technology.

The unit conforms to CE directives.



Model Specification

| | |
|-------------|----------------------|
| Screw drive | DC smart motor |
| Drive power | 0.18 kW (0.24 HP) |
| Tube speed | 67 min ⁻¹ |

Control Modules

Control and speed modules are offered either mounted onto the feeder ([Congrav® CM-E](#)) or are available for mounting in a separate control panel ([Congrav® CB-E](#) or [Congrav® CB-S](#)).

Controls can communicate directly to most host/ PLC systems or to Brabender Technologie Congrav® Operator Interfaces.

Feeder tips and feeding capacities

The selection of the feeder tips and the determination of the feeding capacity is carried out product-specifically in the technical center of Brabender Technologie.

Technical Drawings and Dimensions

| | volumetric feeders | gravimetric feeders | |
|--|----------------------------|------------------------------------|---------------------------------------|
| | | Control module CB | Control module CM |
| Hopper 1.5 dm ³ (0.05 cuft) | RT-2.0-1,5 | DDW-MD0-RT-2.0-1,5 | DDW-MD0-RT-2.0-1,5 CM |
| Hopper 3,0 dm ³ (0.11 cuft) | RT-2.0-3 | DDW-MD0-RT-2.0-3 | DDW-MD0-RT-2.0-3 CM |



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Technical Specification

| | |
|---|--|
| Ambient temperature: | 0°C to +45°C (32°F to 113°F) |
| Humidity of the air: | up to 85% without condensation |
| Ingredient temperature: | 0°C to +60°C* (32°F to 140 °F) |
| Max. bulk density (volumetric): | 1.5 kg/dm ³ (96 lb/cuft) |
| Max. bulk density (with MDO) | 1.5 kg/dm ³ (96 lb/cuft) with hopper 1,5 dm ³ (0.05 cuft) |
| | 0.75 kg/dm ³ (46.8 lb/cuft) with hopper 3 dm ³ (0.11 cuft) |
| Screw trough, extension hopper, hopper lid: | Aluminium, 1.4301 |
| Feeder tip | 1.4301/1.4404 |
| Non-contact components: | Aluminum, plated or painted steel (RAL 7035) |
| Extension hopper: | Hopper lid manual refilling |
| Screw drive: | 0.18 kW (0.24 HP) , IP65 |
| Power supply: | 100-240 V , 50-60 Hz (1/N/PE AC) ** |
| Net weighing range MDO: | 3.1 kg (6.8 lb) with hopper 1,5 dm ³ (0.05 cuft) |
| | 2.3 kg (5.1 lb) with hopper 3 dm ³ (0.11 cuft) |
| * other values upon request | ** Operation on TT networks, TN networks or networks with earthed neutral. For different networks adaptation measures are necessary. |

Options and Accessories

- Replacement tips
- Explosion-proof versions as per directive 2014/34/EU (ATEX)
- Wind protection (polycarbonate, transparent) for stabilization of wind and draught
- [Maintenance disconnect box, pluggable version](#)
- [Ground plate](#)
- Cleaning and filling systems upon requests