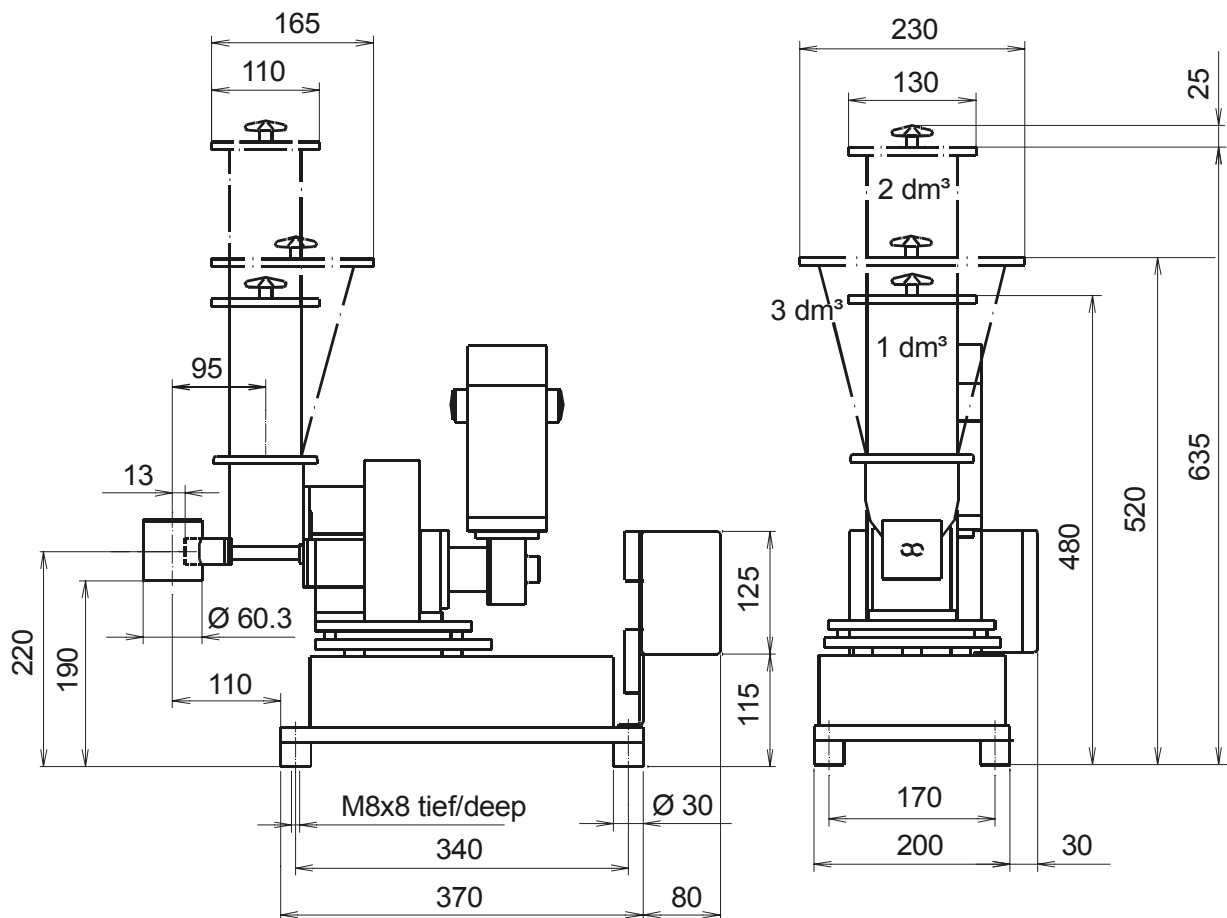
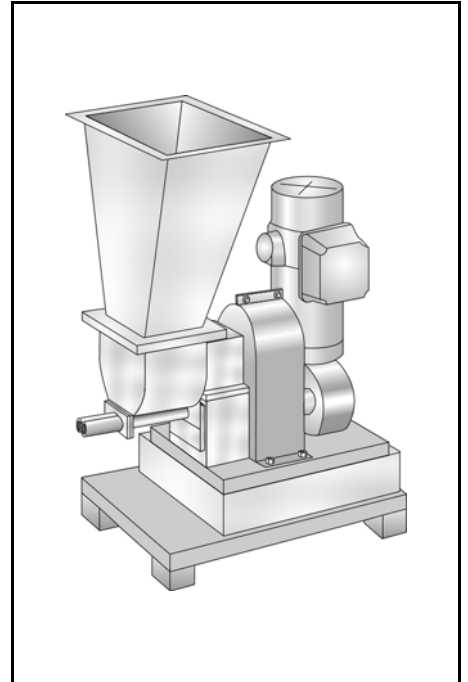


Loss-in-Weight Scale Type DDW-MD1-MT-1(2)[3] with Brabender MiniTwin Feeder

The Brabender MiniTwin Feeder from the Brabender Lab Line is one of the smallest twin-screw feeders in the world and feeds powders down to a minimum feed rate of a few grams per hour due to screw profiles of no more than 12 mm in diameter. Especially when fine powders are fed at ultra-low rates, the self-cleaning twin concave screws offer particularly brilliant dispense without pulsations. Due to its low dimensions and its low centre of gravity the Brabender MiniTwin Feeder permits combination with a platform scale allowing full access to the feeder from all sides. The platform scale and the Brabender MiniTwin Feeder together form a high-tech gravimetric loss-in-weight feeder in laboratory size. For weighing the system uses the digi-

tal load cell DigiMASS-2 in platform scale design featuring two vibrating wires and real weight determination by comparison of masses. The system offers utmost reproducibility, linearity and long-term stability. All parts in touch with the ingredient are made of stainless steel. Mild steel parts are painted light grey as per RAL 7035 (textured coating). The unit conforms to CE standard.



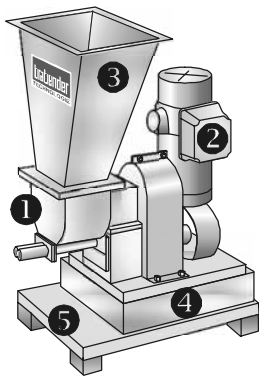
Weight approx. 17kg

Technical Data*

Available Screw Sizes and Feed Rates

Screw Type Ø mm x p mm	Tube Designation	Tube Dia. mm	Speed r.p.m.	Max. Feed Rate dm ³ /hr*
Twin-Concave Screw				
TC 12/04	130 T	16 x 1.5	195 (100)	1.8 (0.9)
TC 12/12	130 T	16 x 1.5	195 (100)	7.0 (3.5)

* The max. feed rates mentioned above are theoretical values based on a screw filling level and a motor speed of 100 % each. Depending on the ingredient flow characteristics the screw filling level may decrease down to 50 %. In gravimetric application further feed rate reductions have to be taken into account because part of the upper motor speed range is required to balance bulk density variations.



Components

- ❶ Twin-screw feed module
- ❷ DC gear motor
- ❸ Stainless steel storage hopper, 1, 2 or 3 dm³, incl. cover with handle for manual refilling
- ❹ DigiMASS-2 weighing system MD1
- ❺ Base plate with anti-vibration pads
- ❻ Brabender speed controller for control cabinet installation (not shown)

Digital Weighing System

Monobloc weighing module DigiMASS-2 Type MD1 in platform scale design:

- Principle of two vibrating wires
- Real comparison of masses
- Stabilization of physical ambient interferences (temperature variations,

- shocks) due to principle of two wires
- Software filter for dynamic electronic vibration attenuation
 - High speed data communications due to serial interface
 - Theoretically utilizable resolution of 4,000,000 d
 - High electromagnetic compatibility

Weighing Range

- 9.0 kg net with 1 dm³ hopper
- 8.5 kg with 2 dm³ hopper
- 8.0 kg net with 3 dm³ hopper

DC Gear Motor

- Wattage: 0.09 kW
- Voltage: 160 V
- Speed: 79 (option: 40) r.p.m.
- Protection: IP 55, insul. class F

Accuracy

- ± 0.25 - ± 1 %

Materials

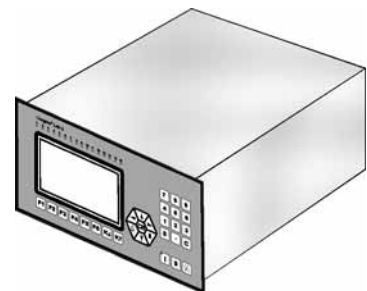
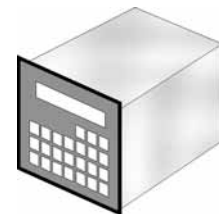
- Parts in touch with the ingredient made of stainless steel 1.4301 ≈ AISI 304 (twin-concave screws stainless steel 1.4305 ≈ AISI 303)

Accessories / Options

- Mass plate to eliminate vibration
- Volumetric version without scale system (see Brabender Works Standard „Brabender MiniTwin Feeder Type MT“)

Microcomputer Controller

- Single or multiple feeder controller from the Congrav[®] product line (see the respective Brabender Works Standards)



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