

Brabender MiniTwin Feeder MT

The Brabender MiniTwin Feeder MT from the "Brabender Lab Line", one of the smallest twin screw feeders of the world, is capable of reliably metering powders with temperatures from 0 to 45°C (32-113°F) at rates of a few grams per hour.

The feeder has the following main components: a stainless steel screw trough, a stirring agitator in the screw trough, a twin feed screw, a feed screw tube, a brushless DC motor with integrated speed controller and an extension hopper for ingredient storage.

Extension hoppers are available with 0.5 dm³ (0.02 ft³), 1.0 dm³ (0.04 ft³) or 1.5 dm³ (0.051 ft³) volume.

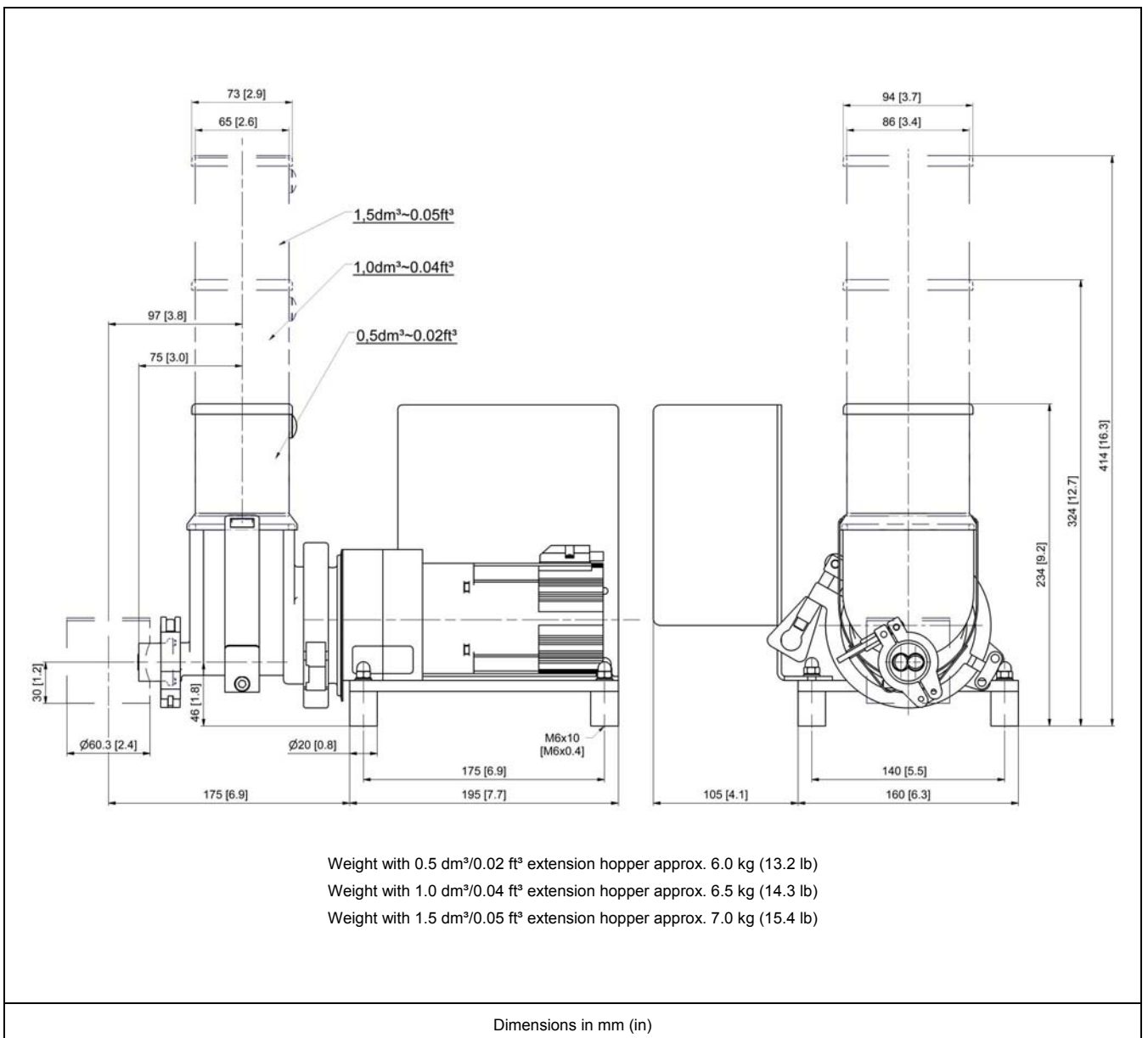
These components work together to provide reliable flow of ingredient and consistent screw filling since the stirring agitator mixes the ingredient, prevents bridging and promotes ingredient flow into the screw.

Other advantages of the MiniTwin MT twin screw feeder are that it is easily disassembled for cleaning and that it permits easy exchange of feed screws.

Options include a scale to allow gravimetric loss-in-weight feeding, interchangeable twin screws and a downspout on the feeder outlet. Ingredient contact steel parts are made of stainless steel. Mild steel parts are painted light grey (RAL 7035).

Environmental conditions: 0-45°C (32-113°F), up to 85% humidity without condensation.

The feeder conforms to CE directives.

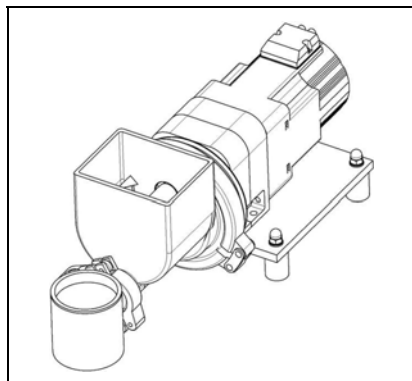


Technical Data

Available screw sizes and feed rates

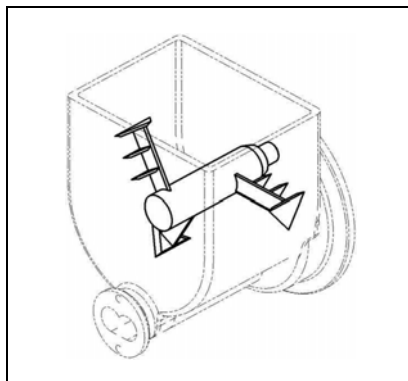
Screw Type	Ø (mm) x p (mm)	Tube designation	Tube dia. (mm)	Speed (rpm)	Max. feed rate (dm ³ /hr)*	Max. feed rate (ft ³ /hr)*
Twin Concave Screw (TC)	TC 12/04 TC 12/12	130 T 130 T	16.0 x 1.5 16.0 x 1.5	max. 140 max. 140	1.26 5.60	0.04 0.20

* Theoretical values at 100% screw filling level and motor speed. Depending on the flow characteristics the screw filling level may decrease to 50%.



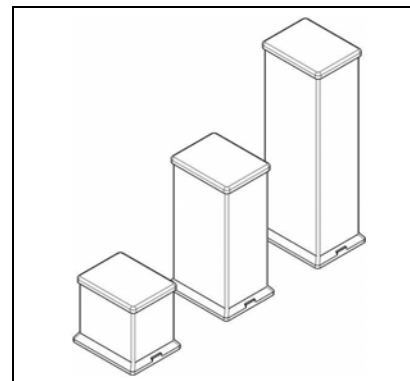
MiniTwin Feeder

- Laboratory sized twin screw feeder
- Stainless steel housing
- Exchangeable twin screw
- Brushless DC motor (0.05 kW, 230 V, IP65, with integrated speed controller, screw speed max. 140 min⁻¹)
- Ingredient contact surfaces are stainless steel
 - Screw trough SS 1.4404 (316 L)
 - Screws SS 1.4305 (303)



Multifunctional Agitator

- Multifunctional stirring agitator
 - Mixes the bulk ingredient
 - Prevents bridging and ratholing
 - Promotes reliable ingredient flow
 - Ensures consistent screw filling
- Driven from screw drive via integral gearbox
- Stainless steel SS 1.4301 (304)



Extension Hoppers

- Extension hoppers
 - 0.5 dm³ (0.02 ft³), straight walled
 - 1.0 dm³ (0.04 ft³), straight walled
 - 1.5 dm³ (0.05 ft³), straight walled
- Lift off cover
- Stainless steel SS 1.4404 (316 L)

Accessories

- Vertical downspout on the screw tube outlet
- Flexible connections
- Exchange twin screws

Options

- Gravimetric loss-in-weight feeder with scale MD0 (see separate Works Standards)
- Designs for higher or lower ingredient and/or ambient temperatures (standard = 0-45°C ≈ 32-113°F each)

Speed Control

- Speed control available via
- potentiometer or
 - 4-20 mA input



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