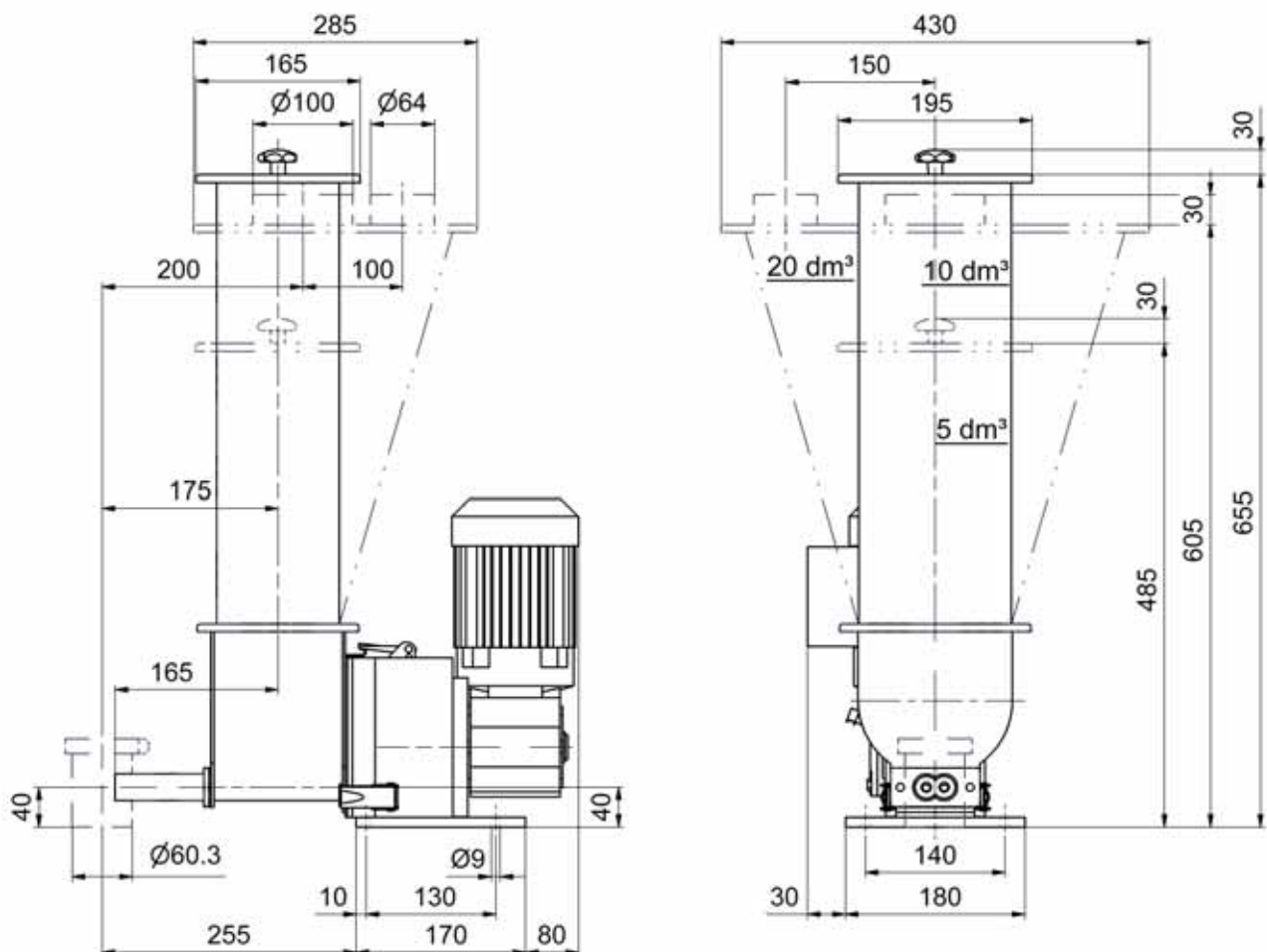
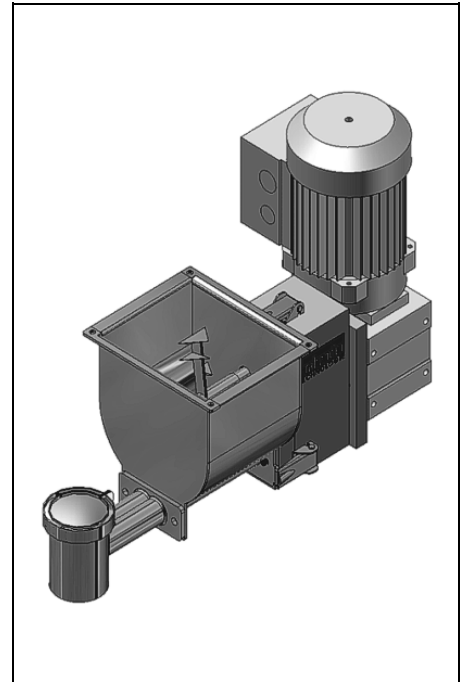


Brabender Twin-Screw Feeder Type DDSR20

The Brabender Twin-Screw Feeder Type DDSR20 feeds powders with problematic flow characteristics at low feed rates, in particular poorly flowing or floodable ingredients. It is designed for ease of servicing and quick dismantling and cleaning. Around the twin-shaft drive unit the individual component groups, screw tubes and screws can easily be mounted and dismantled by hand. The Brabender Twin-Screw Feeder Type DDSR20 consists of a stainless steel screw trough with interior stirring agitator, a twin screw for ingredient dispense and a frequency-controlled three-phase current motor driving the screw. Depending on refill method, feed rate and storage requirements it can be combined with a 5 dm³, 10 dm³ or 20 dm³ extension hopper.

The crucial point for proper function of the system is the ingredient supply to the screws. Here, the stirring agitator in the trough provides for homogenization of the ingredient and for uniform screw filling at a constant level: the prerequisite to high feeding accuracy. The universal design of the different feed screws permits easy interchanging. The feeder is available as a stand-alone volumetric unit or, combined with a Brabender scale and one of the Brabender single or multiple feeder control configurations, as a gravimetric loss-in-weight feeder. All parts in touch with the ingredient are made of stainless steel. The unit conforms to the CE directives.



Weight with 5 dm³ extension hopper approx. 19 kg, 10 dm³ approx. 21 kg, 20 dm³ approx. 25 kg

Technical Data*

Available Srew Sizes and Feed Rates

Screw type	Ø mm x p (mm)	Tube designation	Tube dia. (mm)	Screw speed (r.p.m.)	Max. feed rate (dm ³ /hr)*
Double spiral screw (SS)	SS 13/10	200 T	24.0 x 2.0	485 (240) [85] / 100Hz**	60 (30) [11]**
	SS 13/10	223 T	26.9 x 2.3	485 (240) [85] / 100Hz**	125 (62) [22]**
	SS 13/15	200 T	24.0 x 2.0	485 (240) [85] / 100Hz**	98 (48) [17]**
	SS 13/15	223 T	26.9 x 2.3	485 (240) [85] / 100Hz**	195 (97) [34]**
Twin spiral screw (TS)	TS 18/13	200 T	24.0 x 2.0	485 (240) [85] / 100Hz**	150 (74) [26]**
	TS 18/13	223 T	26.9 x 2.3	485 (240) [85] / 100Hz**	199 (98) [35]**
	TS 18/19	200 T	24.0 x 2.0	485 (240) [85] / 100Hz**	237 (117) [41]**
	TS 18/19	223 T	26.9 x 2.3	485 (240) [85] / 100Hz**	308 (152) [54]**
	TS 18/29	200 T	24.0 x 2.0	485 (240) [85] / 100Hz**	380 (188) [67]**
	TS 18/29	223 T	26.9 x 2.3	485 (240) [85] / 100Hz**	489 (242) [86]**
Twin concave screw (TC)	TC 20/12	200 T	24.0 x 2.0	485 (240) [85] / 100Hz**	35 (17) [6]**
	TC 20/11	223 T	26.9 x 2.3	485 (240) [85] / 100Hz**	67 (33) [12]**
	TC 20/20	223 T	26.9 x 2.3	485 (240) [85] / 100Hz**	139 (69) [24]**

* 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 flow characteristics of the ingredient the screw filling level may decrease down to 50 %.

** Values in brackets refer to optional motors 68 r.p.m./100 Hz and 24 r.p.m./100 Hz

Screw Drive / Agitator Drive

Three-phase current motor

Wattage: 0.18 kW

Voltage: 230/400 V

Speed: 136/100 Hz

Optional: 68/100 Hz

24/100 Hz

Protection: IP 65, insulation class F

Speed Controller

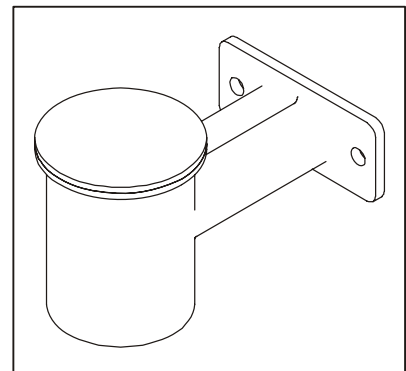
Frequency converter FC-B1 in an IP55 housing (setpoint potentiometer or external control by 0-5 (10) V, 0(4)-20 mA), or **frequency converter FC-V1.1** for control cabinet installation (external control by 0-5(10) V, 0(4)-20 mA or by setpoint potentiometer)

Materials / Finish

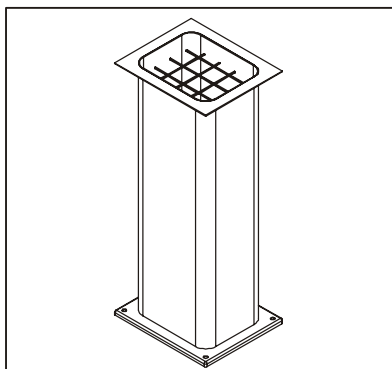
Ingredient-touched parts SS 1.4301 (≈ AISI 304), mild steel parts painted light grey (RAL 7035, textured coating)

Accessories / Options

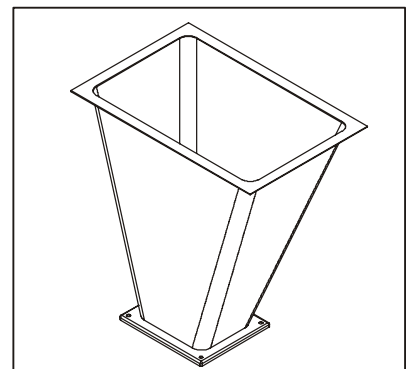
- Extension hopper, SS 1.4301 (≈ AISI 304), 5 or 10 dm³ (rectangular cuboid) or 20 dm³ (cone)
- Safety grid, 1.4301
- Cover with handle or inlet pipe, 1.4301
- Downspout
- Flexible connection sleeves
- Exchange screws and screw tubes
- Gravimetric version as a loss-in-weight feeder (see separate Works Standard)



Downspout



Extension hopper 5/10 dm³, cuboid



Extension hopper 20 dm³, cone



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An ISO 9001/EN 29001 Certified Company

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