

Brabender Screw Feeder Type DSR28

The Brabender Screw Feeder Type DSR28 feeds flowable bulk ingredients at low feed rates. It is designed for ease of servicing and quick dismantling and cleaning.

Around the drive unit the single component groups, screw tubes and feed screws can easily be mounted and dismantled by hand.

The Brabender Screw Feeder Type DSR28 consists of a stainless steel screw trough with interior stirring agitator, a feed 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.

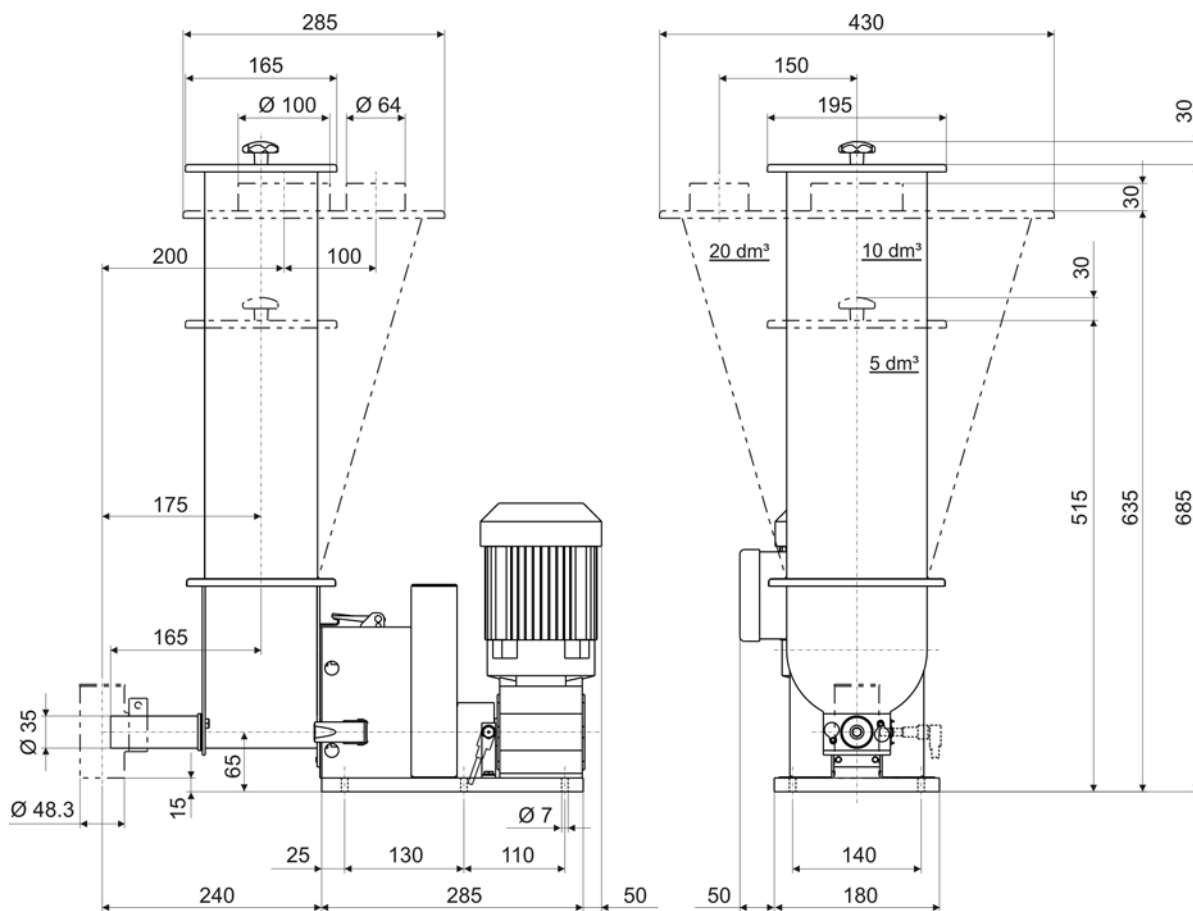
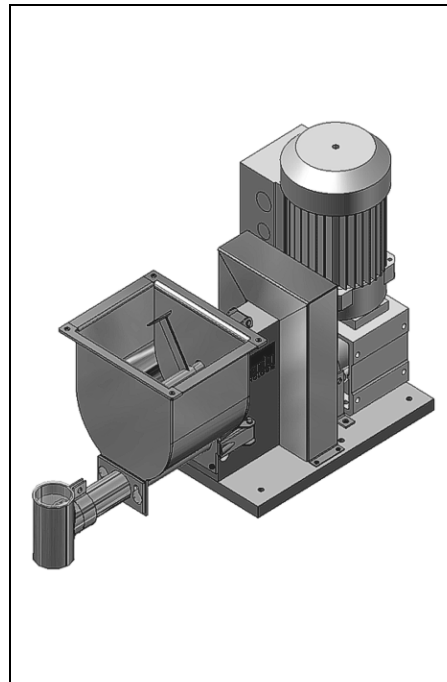
The crucial point for proper function of the system is the ingredient supply

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. 21 kg, 10 dm³ approx. 23 kg, 20 dm³ approx. 27 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)*
Spiral screw (S)	S 13/10	160	20.0 x 2.0	254 (134) [66] / 100Hz**	16 (8) [4]**
	S 13/15	160	20.0 x 2.0	254 (134) [66] / 100Hz**	26 (13) [7]**
	S 20/15	210	25.0 x 2.0	254 (134) [66] / 100Hz**	53 (28) [14]**
	S 20/19	210	25.0 x 2.0	254 (134) [66] / 100Hz**	72 (38) [19]**
	S 20/24	210	25.0 x 2.0	254 (134) [66] / 100Hz**	95 (50) [25]**
	S 24/35	260	30.0 x 2.0	254 (134) [66] / 100Hz**	215 (113) [56]**
	S 28/22	320	38.0 x 3.0	254 (134) [66] / 100Hz**	178 (94) [46]**
	S 28/35	320	38.0 x 3.0	254 (134) [66] / 100Hz**	298 (157) [77]**
Granule screw (S)	S 13/10	210	25.0 x 2.0	254 (134) [66] / 100Hz**	28 (15) [7]**
	S 13/15	210	25.0 x 2.0	254 (134) [66] / 100Hz**	46 (24) [12]**
	S 20/15	320	38.0 x 3.0	254 (134) [66] / 100Hz**	96 (50) [25]**
	S 20/19	320	38.0 x 3.0	254 (134) [66] / 100Hz**	128 (67) [33]**
	S 20/24	320	38.0 x 3.0	254 (134) [66] / 100Hz**	167 (88) [44]**
	S 24/35	320	38.0 x 3.0	254 (134) [66] / 100Hz**	215 (113) [56]**

* 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 134 min⁻¹/100 Hz and 66 min⁻¹/100 Hz

Screw / Agitator Drive

Three-phase current motor
 Wattage: 0.25 kW
 Voltage: 230/400 V
 Speed: 254/100 Hz
 Optional: 134/100 Hz
 66/100 Hz
 Protection: IP 65, insulation class F

Speed Controller

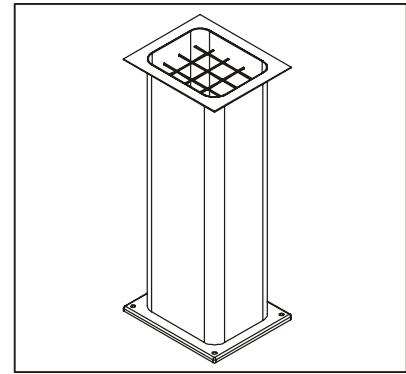
Frequency converter FC-B1 in an IP55 housing (setpoint potentiometer or external control by 0-5 (10) V, 0(4)-20 mA), or **frequency converter FC-V1.1** for control cabinet installation (external control by 0-5(10) V, 0(4)-20 mA or by setpoint potentiometer)

Materials / Finish

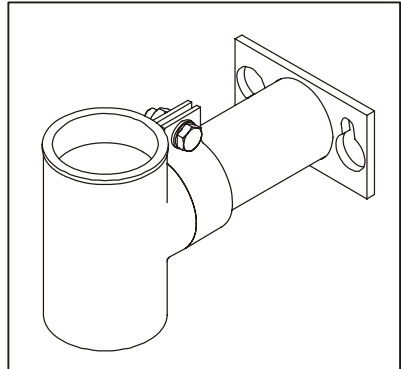
Ingredient-touched parts SS 1.4301 (≈ AISI 304), mild steel parts painted light grey (RAL 7035, textured coating)

Accessories / Options

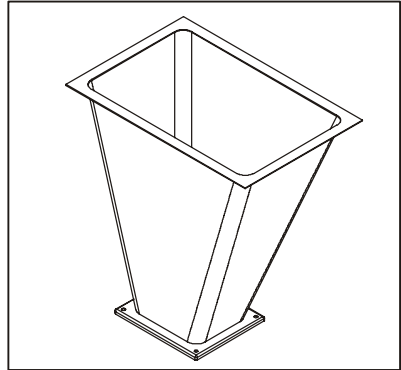
- Extension hopper, SS 1.4301 (≈ AISI 304), 5 or 10 dm³ (rectangular cuboid) or 20 dm³ (cone)
- Safety grid, 1.4301
- Cover with handle or inlet pipe, 1.4301
- Downspout
- Flexible connection sleeves
- Exchange screws and screw tubes
- Gravimetric version as a loss-in-weight feeder (see separate Works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



Extension hopper 5/10 dm³, cuboid



Downspout



Extension hopper 20 dm³, cone



*Modifications reserved. All data describe our products in a general manner. They are no agreement on or warranty of characteristics in the sense of § 434 or guarantee in the sense of § 443 of the German Civil Code or similar regulations and effect no liability.

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