

Brabender Screw Feeder Type DSR 67

The Brabender Screw Feeder Type DSR 67 feeds bulk ingredients with good to restricted flowability in a medium feed rate range. It is designed for ease of servicing and permits quick disassembly and cleaning.

The Brabender Screw Feeder Type DSR 67 consists of a stainless steel screw hopper with integrated agitator driven by its own three-phase current motor, a spiral or blade screw for ingredient dispense and a frequency-controlled three-phase current motor driving the screw. Depending on the refill mode, feed rate and storage requirement it can be combined with an extension hopper of either 60 dm³ or 110 dm³ volume.

Substantial for proper function of the system is reliable ingredient supply to the screw. The hopper agitator homo-

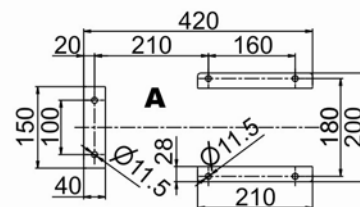
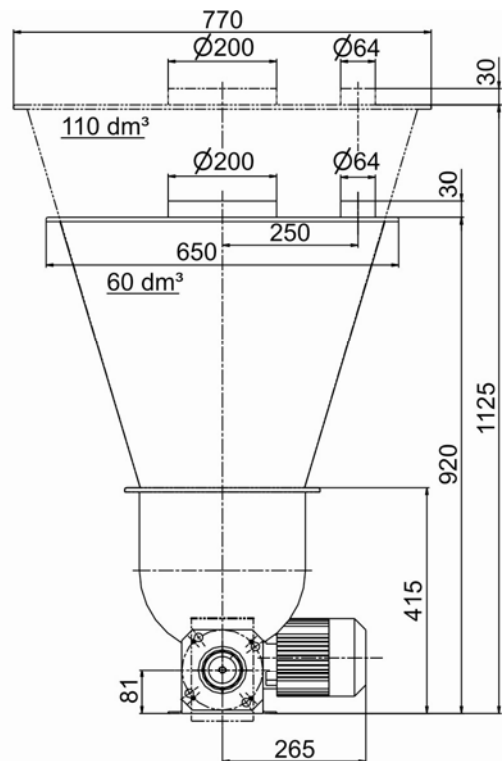
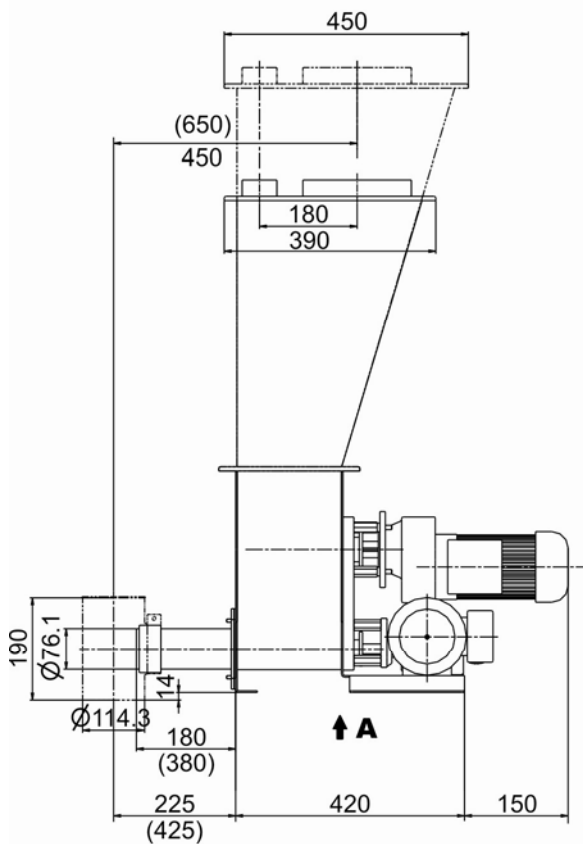
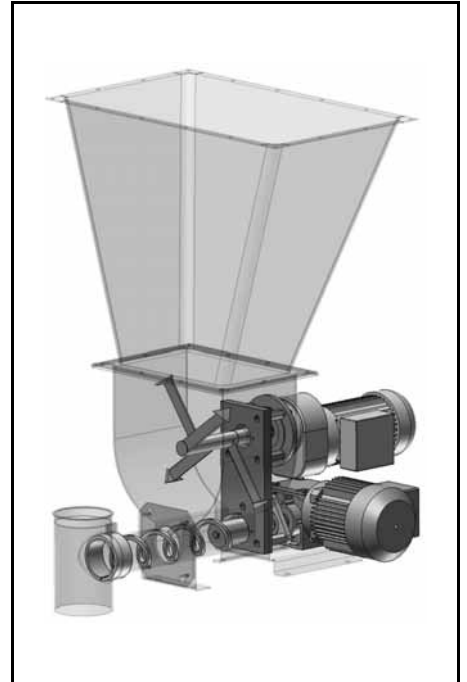
genizes the ingredient and ensures a constant screw filling level: the prerequisite to high feeding accuracy.

The different screw profiles are of a universal design and fully interchangeable.

The feeder can be employed as a stand-alone volumetric unit or combined with a Brabender scale and a microcomputer controller from the Congrav[®] controller line or the Brabender SCC Field Bus System as a gravimetric loss-in-weight feeder.

All parts in touch with the ingredient are made of stainless steel.

The unit conforms to CE directives.



Weight
 with 60 dm³ extension hopper approx. 55 kg
 with 110 dm³ extension hopper approx. 60 kg

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 dm³/hr*
Spiral Screw (S)	S 28/22	320	38.0 x 3.0	168 (270**) / 100Hz	118 (189**)
	S 28/35	320	38.0 x 3.0	168 (270**) / 100Hz	197 (317**)
	S 43/27	443	48.3 x 2.0	168 (270**) / 100Hz	322 (518**)
	S 43/42	443	48.3 x 2.0	168 (270**) / 100Hz	539 (866**)
	S 52/39	563	60.3 x 2.0	168 (270**) / 100Hz	696 (1119**)
	S 52/62	563	60.3 x 2.0	168 (270**) / 100Hz	1180 (1897**)
	S 67/45	715	76.1 x 2.3	168 (270**) / 100Hz	1476 (2372**)
	S 67/71	715	76.1 x 2.3	168 (270**) / 100Hz	2395 (3849**)
Blade Screw (B)	B 50/45	563	60.3 x 2.0	168 (270**) / 100Hz	676 (1087**)
	B 50/70	563	60.3 x 2.0	168 (270**) / 100Hz	1085 (1744**)
Granule Screw (S)	S 28/22	443	48.3 x 2.0	168 (270**) / 100Hz	209 (335**)
	S 28/35	443	48.3 x 2.0	168 (270**) / 100Hz	342 (549**)
	S 43/27	563	60.3 x 2.0	168 (270**) / 100Hz	454 (729**)
	S 43/42	563	60.3 x 2.0	168 (270**) / 100Hz	744 (1195**)
	S 52/39	715	76.1 x 2.3	168 (270**) / 100Hz	1039 (1669**)
	S 52/62	715	76.1 x 2.3	168 (270**) / 100Hz	1725 (2772**)

* 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 motor 135 min⁻¹/50 Hz (= 270 min⁻¹/100 Hz)

Screw Drive

Three-phase current motor

Wattage: 0.37 kW
 Voltage: 220/460 V, 50 Hz resp. multi-voltage range as per IEC 38
 Speed: 84 (optional 135) min⁻¹/50 Hz
 Enclosure: min. IP 55
 Insulation class F

Agitator Drive

Three-phase current motor

Wattage: 0.12 kW
 Voltage: 220/460 V, 50 Hz resp. multi-voltage range as per IEC 38
 Speed: 1315/6.9 min⁻¹ at 50 Hz
 Enclosure: IP 55, insulation class F

Speed Controller

Frequency Converter Type FC-B1

in an IP55 housing (setpoint potentiometer or external control by 0-5(10) V, 0(4)-20 mA), or

Frequency Converter Type FC-V1.1 for control cabinet installation (external control by 0-5(10) V, 0(4)-20 mA or by setpoint potentiometer).

Details: see separate Works Standards

Materials

Ingredient-touched SS 1.4301 ≈ AISI 304 (blade screws polyurethane), mild steel parts painted (RAL 7035)

Accessories / Options

- Extension hopper, SS 1.4301 ≈ AISI 304, conical, volume 60 or 110 dm³
- Special extension hopper 200 dm³, SS 1.4301 (≈ AISI 304)
- Cover with inlet pipe and vent pipe for automatic refilling

- Laid-on cover with handle for manual refilling
- Safety grid, SS 1.4301 (≈ AISI 304)
- Nozzle for level sensor
- Special extension hopper, round with discharge agitator, 100 dm³, SS 1.4301 (≈ AISI 304)
- Flexible connection sleeves
- Exchange screws and screw tubes
- Quick-closing valve on outlet tube
- Screw extension 200 mm
- Motor speed 135 min⁻¹/50 Hz
- Pole-changing screw motor
- Explosion-proof designs

Fields of Application

Volumetric or - in conjunction with a Brabender scale - gravimetric feeding (see Brabender Works Standards on Loss-in-Weight Feeders DDW-H32-DSR67-60 [110] and DDW-MD5[6]-DSR67-60[110])



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