

Brabender® Big Compounder B-TSE-S 30/40

Compact 30 mm twin screw extruder for applications in pilot plant and small-scale production



Brabender®

... where quality is measured.

Brabender Big Compounder B-TSE-S 30/40

The Big Compounder B-TSE-S 30/40 is an electrically heated, co-rotating twin-screw extruder (Ø 30 mm) with integrated drive and hinged liner for process monitoring and easy cleaning.

With a throughput of up to 100 kg per hour, it is suitable for use in the pilot plant as well as for small-scale production of various extrudates made of plastics, rubber, food, feed and many other extrudable materials.

Different die geometries and screw configurations make the Big Compounder B-TSE-S 30/40 a versatile extruder that can be fed via several top opening along the barrel as well as from the side.



Technical Data

- Drive power: 39 kW
- Screw diameter: 30 mm
- Barrel length: 40 D
- Throughput: application dependent max. 100 kg/h
- Materials: Pellets, powders, fibres, liquids
- Screw speed: max. 1200 min⁻¹
- Dosing openings: 0 D, 10 D, 20 D, 30 D (along the barrel), 12 D, 22 D (side openings)
- Screw torque: 2 x 150 Nm
- Operating temperature: max. 450 °C
- Pressure: max. 300 bar
- Heating / cooling zones: 4 (electrically heated, water cooled)
- Mains connection: 3 x 400 V, 50/60 Hz + N + PE, 160 A
- Dimensions (L x W x H, with feeder, without die head) : 2200 mm x 1800 mm x 1320 mm
- Weight (without die head): 850 kg

Liner options

| Brabender Liner | Ph range | Corrosion resistance | Abrasion resistance | Hardness |
|-----------------|------------|----------------------|---------------------|----------|
| Liner 1 | 3 - 12 | ☆☆☆☆☆ | ☆☆☆☆☆ | 59 |
| Liner 2 | 3 - 12 | ☆☆☆ | ☆☆☆☆☆ | 60 |
| Bralloy Liner | < 3 > 12 | ☆☆☆☆☆ | ☆☆☆ | 48 |

Stars from 0-5 possible, 0 = low, 5 = high



The B-TSE-S 30/40 features an electrically openable liner for optimum process monitoring and easy cleaning

Highlights

Powerful

- Torque of 150 Nm per screw
- High shear energy achieved with an OD/ID ratio of 1.54
- Up to 1200 rpm
- Pressure up to 300 bar

Flexible

- Processing of pellets, powders, fiber, liquids
- Up to 450 °C in 4 separately controlled barrel heating/cooling zones
- 6 feeding options (4 top / 2 side)

Easy handling

- Clam Shell Design: Electrically hinged liner for process monitoring and easy cleaning
- Two-part L-liner with removable upper and lower part
- Hygienic components in the product-conducting area
- Corrosion-resistant, easy-to-clean stainless steel components

Modular

- Application-specific configurations - Segmented screws with different screw elements
- Interchangeable liner in different variants for high corrosion and/or high abrasion resistance
- Compatible with various die geometries and up-/down stream equipment, including conveying, cooling, feeding, conveying, cooling, granulating and winding

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