

Brabender® B-TSE-A 12/36

12 mm twin-screw extruder attachment
for MetaStation torque rheometers



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B-TSE-A 12/36

With the B-TSE-A 12/36, Brabender offers a small scale twin screw extruder for product development in the plastics, rubber, energy storage and pharmaceutical industries.

The B-TSE-A 12/36 is a 12 mm twin-screw extruder attachment for the MetaStation drive units with an L/D of 36. It enables the processing of small and smallest sample quantities and is specially designed for laboratory purposes.

With a wide temperature range, a high torque density and multiple feeding options, this extruder provides the perfect solution for recipe and process development or very small scale production in food & feed, plastics & rubber and pharma applications.



Technical Data

• Screw diameter:	12 mm
• Barrel length:	36 D
• Throughput:	approx. 0,06 - 5 kg/h
• Materials:	powder, granules (up to ø3 mm)
• Screw speed max.:	1200 min ⁻¹ 740 min ⁻¹ (MetaStation 4)
• Screw torque:	2 x 15 Nm
• Operating temperature:	400 °C
• Pressure max.:	150 bar
• Throughputs max.:	0,06 - 5 kg/h
• Heating / cooling zones:	4 (electrically heated, water or air cooled)
• Die zone / heating only:	1
• Liner:	openable, exchangeable
• Mains:	1 x 240 V, 50/60 Hz + N + PE, 32 A
• Dimensions (L x W x H, with plug-in funnel and vacuum generator, without nozzle head)	
- with coaster:	1240 mm x 600 mm x 1300 mm
- without coaster:	1240 mm x 600 mm x 450 mm

Highlights

Powerful

- Torque density of 15 Nm per screw
- High shear energy achieved with an OD/ID ratio of 1.43
- Up to 1200 rpm, depending on the selection of the drive unit
- Up to 150 bar of pressure

Flexible

- Processing of liquids, powders, micro-pellets and pellets up to 3 mm
- Up to 400 °C in 4 separately controlled temperature zones
- Air or liquid cooling (thermostat and water distribution system required)
- 4 feeding options (3 top / 1 side)

Easy handling

- Hygiene-compliant components in the area in contact with the product
- Clam shell design with an openable liner for contamination-free and easy cleaning between the trials
- Stainless steel components for corrosion resistance and additional cleanability

Modular

- Compatible to all rheological drive units of the MetaStation series
- Segmented screws with a wide range of different screw elements allow for applications specific configurations
- Exchangeable liner with different variants for high corrosion and/or high abrasion resistance
- Compatible to a very wide range of extrusion dies and downstream equipment

Compact

- Lab scale extruder with small footprint
- Available as table-top version or with a rack



Clam Shell Design - openable liner for optimum process monitoring and easy cleaning

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