

Conical TSE

The co-rotating and counter-rotating Conical Twin Screw Extruder is ideally suited for quality control, product development and research applications.

All the screws allow a uniform forward flow regardless to the degree of flight filling, feeding uniformity, polymer flow characteristics, or back pressure.

The co-rotating channel allows material to flow from one screw to the other in a constant wiping motion. In contrast, the counter rotating chamber produces a milling action between the screws similar to a calendering process.

Materials can be metered with precision feed units to exact specifications, while the barrel of the extruder is designed to allow additional materials such as liquid monomers, colors or plasticizers to be added at various stages of the testing process.



D6/2 Compounder

The 42mm parallel, counter-rotating, intermeshing screws create a high shear, high intensity mixing action. The design is ideal for intimate blending, mixing, and compounding of thermoplastics and elastomers.

Despite the relatively short L/D ratio (7:1), residence times are actually longer than extruders twice its length. This is partially due to the mixing notches in the metering zone of the screws.

The D6/2 is capable of outputs up to eight pounds per hour and successfully compounds filler levels as high as 85% without exceeding the torque overload coupling's maximum rating of 24,000 mg.

The extruder features two zone heater/cooler collars on the barrel. The feed throat can be chilled with water to prevent bridging.



Twin Screw Extruders

Features and Specifications

Twin Screw Extruders

Technical Data

TSE	Screw Diameter	Screw Length	Screw Torque	Operating Temperature
Conical	31.1 mm	330.7mm	240 Nm (24,000 mg)	400 °C
D6/2	42 mm	305 mm	240 Nm (24,000 mg)	350 °C

416 stainless steel, honed and nitrided barrel.

Catalog #	Extruder	Description
15-40-000	Conical	Counter Rotating
15-41-000	Conical	Co-rotating
15-03-000	D6/2	Counter-rotating

Customer Satisfaction

C.W. Brabender® Instruments, Inc. provides unparalleled service and technical support for our customers by employing highly skilled tradesmen, service technicians, and an experienced sales force.

We have a modern application laboratory located at our National Headquarters to benefit the interests of our customers. An experienced technician shall attend to the specific needs of each and every individual, and shall remain present throughout the entirety of the test and trial periods in order to assist in the customer's quest for desired results.

To arrange for a personal demonstration of the C.W. Brabender® Twin Screw Extruder product line, contact the technical staff at C.W. Brabender®.

Discuss what WE can do
for YOU...

D6/2 Bonus Feature



The quick disconnect head assembly and the unique "Swing Arm" barrel support system enables easy barrel removal for inspection and cleaning purposes. The screws are then easily removed to facilitate cleaning.