



Lab-Compounder KETSE 20/40 D

Twin screw extruder



... where quality is measured.

Lab-Compounder KETSE 20/40 D



With the new **Lab-Compounder KETSE 20/40 D**, **Brabender®** offers a co-rotating twin screw extruder as miniature scale with application to the chemical industry for material research and process simulation.



TSE 20/40 D with opened barrel

Application

The scale-down of the machine in combination with the comprehensive adaptability to almost each processing task, and the easy handling of the system, explain the distinction of the **KETSE 20/40 D** as an excellent laboratory apparatus.

The modular screw conception offers all individual processing possibilities. Further **Brabender®** accessories like metering systems as well as various downstream equipment are available to setup complete extrusion lines.

Principle

The **Lab-Compounder KETSE 20/40 D** has an integrated drive with a power of 11 kW and reaches speed up to max. 1200 rpm. The clam shell barrel (length: 40 D) is divided horizontally, can be tilted open, and allows visual assessment of individual processing steps. Furthermore, a comfortable mounting of the screws and a quick cleaning of the cylinder is possible.

In addition to the main metering, metering or venting ports at a barrel length of 10 D, 20 D and 30 D are available. Side feeding can be installed at 12 D and 22 D length.

The **Lab-Compounder KETSE 20/40 D** is supported by CAN open bus technology. Recording and evaluation of measuring data as well as control of the entire machine system are done with easy-to-handle software under Windows®.

Of course, the necessary additional equipment like measuring and control units or metering systems (gravimetric, volumetric, liquid) as well as down-stream equipment is available, too, allowing for modular setup of complete extrusion lines.



Lab-Compounder KETSE 20/40 D



Lab-Compounder KETSE 20/40 D EC



C.W. Brabender® laboratory

C.W. Brabender® support

A modern applications laboratory is available for all customers and interested parties for trials with their own materials. All **C.W. Brabender®** measuring systems can be tested under ideal conditions. An experienced expert team will assist all tests.

Together we will find the optimal solution to meet your testing needs.

	KETSE 20/40 D	KETSE 20/40 D EC
Screw diameter:	20 mm	20 mm
Screw length:	40 D	40 D
Heating / cooling zones:	4 electrically heated / water cooled	4 electrically heated / water cooled
Drive:	11 kW	5,2 kW
Max. torque:	2x40 Nm	2x40 Nm
Speed:	1 - 1200 min ⁻¹	1 - 600 min ⁻¹
Temperature controller:	8 zones	8 zones
Pressure:	300 bar	300 bar
Max. temperature:	400 °C	400 °C
Materials:	granules, powder, fiber, liquid	granules, powder, fiber, liquid
Output:	0.5 - 20 kg/h	0.5 - 9 kg/h
Mains:	3 x 400 V, 50/60 Hz, +N +PE, 63 A	3 x 400 V, 50/60 Hz, +N +PE, 32 A
Dimensions (W x H x D):	1660 mm x 730 mm x 1230 mm	1850 mm x 770 mm x 1230 mm
Weight:	approx. 525 kg	approx. 425 kg



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