



C.W. Brabender®
INSTRUMENTS, INC.

Stand-alone Single Screw Extrusion Systems

APPLICATIONS

The Brabender® stand-alone extruders are directly driven multi-purpose machines for testing and processing a large variety of materials like:

- Plastics
- Elastomers
- Building materials
- Pharmaceuticals

Their compact design and convincing technical features make these machines the ideal solutions for applications both in:

- Laboratories
- Small-scale production

In combination with the large program of screws and die heads, Brabender® stand-alone extruders are perfectly suited for:

- The development of new products
- Testing the processing behaviour for recipe development or incoming and final material inspection
- Quality control during production in combination with measuring heads
- Production of small tubes and profiles
- Production of blown and flat films.

Equipped with a grooved feed zone and a barrier screw, and an appropriate drive power -- throughputs comparable to high performance extrusion can be reached...

An extensive product line of post extrusion/take-off equipment is available to build-up complete processing lines.

**Stand-alone
KE 19 & KE 30**



Features and Specifications

Stand-alone Single Screw Extruders...

- state-of-the-art fieldbus technology (CAN bus with CANOpen protocol)
- multi-master system
- extremely flexible
- self-validation and self-diagnostics
- real-time data communication
- powerful control and evaluation software for Windows™ 95/98 and NT



Expandability

The CAN bus system of the stand-alone extruders is a multi-master system with self-supporting modules like temperature controllers, pressure sensors, etc. Additional equipment for the extruder like dosing units, melt pumps, etc. as well as multiple downstream equipment including the corresponding control system can easily be integrated via the CAN bus into the extrusion line with CAN PC control. This makes the new series extremely flexible and open to expansion whenever needed.

Self-intelligence

The self-intelligence of temperature controllers, speed controller, and pressure sensors includes self-validation (recognition of type, measuring range, and admissible operating parameters) and automatic self-diagnostics. In combination with digital real-time data communication, this provides for utmost operational safety of the entire system.

Software

The convincing features of the stand-alone extruder series are completed by a powerful control and evaluation software under Windows, saving of operation and evaluation data in an MS Access database, and convertibility of the data for commercial Office programs. A special data correlation program is available for further analysis of the test results. In addition to manual operation, the KE 19 & KE 30 can network with local data nets.

Technical data

	Stand-alone extruder KE 19 ¹	Stand-alone extruder KE 30
Barrel diameter	19 mm	30 mm
Screw length	10, 15, 20, 25 D	20, 25 D
Drive power	1.5 kW	7.5 kW
Speed	2 - 150 min ⁻¹	2 - 200 min ⁻¹
Max. screw torque	150 Nm	400 Nm
Max. operating temperature	450 °C	450 °C
Max. throughput	approx. 5 kgs/h	approx. 15 kgs/h

¹also available for food extrusion with forced screw feeding and grooved barrel



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