



C.W. Brabender®
INSTRUMENTS, INC.

Lab-Station Plasti-Corder®

Universal measuring drive for all measuring tasks...

Lab-Station



Features & Specifications

C.W. Brabender® • Lab-Station

The Lab-Station Plasti-Corder® is a torque rheometer designed for practice-oriented investigations or processing tasks in laboratories and simulation.

Simply dock the movable and self-centering measuring heads like mixers and extruders to the basic unit. The fully digital 12-kW motor ensures full torque of 400 Nm over the entire speed range from 0.2 to 275 min⁻¹. The inverter drive provides for precise and constant speed while a torque measurement is integrated.

- Plug & Play
- Self-validation
- Modular configuration
- Real multitasking
- State-of-the-art fieldbus technology with standard bus system
- Easy installation - high reliability
- Powerful, 32-bit software for all current Windows versions



Lab-Station with measuring mixers

Test your sample material under practice-oriented conditions in the dock station measuring heads. The measuring mixer/developer simulates all important production processes like compounding and mixing under conditions that are near to production reality, and documents the tests.

Results display the relationship between torque (viscosity) and temperature/time in consideration of structural changes of the material. The measured data are displayed numerically as a table and/or graphically as a diagram during the running measurement on the monitor or on the display unit and can be printed and stored.



Lab-Station with measuring extruders

Combine the Lab-Station with a single screw or twin screw measuring extruder and simulate all types of extrusion that are relevant for practice - on a laboratory scale, but under production-like conditions:

- Cold forming
- Gelatinization
- Cooking and expansion
- Texturization
- Extrusion of biodegradable polymer-starch compounds

All measuring values like torque, melt temperature, melt pressure, and screw backforce (if requested) are registered continuously and displayed in the form of tables and diagrams parallel to the running test.



Technical Data

Dynamometer	digital AC inverter motor, carried in a pendulum bearing
Power	12 kW
Speed	0.2 - 275 min ⁻¹ , infinitely adjustable, digital display
Speed constancy	quartz precision through digital feedback
Sense of rotation	forward or backward (key-operated switch)
Torque measuring range	0 - 400 Nm
Mains	standard: 3 * 380/400/415/440 V (adjustable) option: 3 * 230 V (with transformer) 48 - 62 Hz, 3 * 32 A
Dimensions (H x W x D)	1200 x 630 x 980 mm
Weight	approx. 283 kg



C.W. Brabender®
INSTRUMENTS, INC.

C.W. Brabender® Instruments, Inc. • 50 East Wesley Street, South Hackensack, NJ 07606
Tel: 201.343.8425 • Fax: 201.343.0608
E-Mail: foodsales@cwbrabender.com • www.cwbrabender.com