



**C.W. Brabender®**  
INSTRUMENTS, INC.

## The new Glutograph-E

The Brabender® Glutograph for testing the gluten quality has been completely revised and now appears as Glutograph-E with a completely new, compact design.

The convincing features of the new instrument:

- State-of-the-art electronic measuring system
- Easy and comfortable operation via touch-screen
- Integrated computer with user-optimized measuring and evaluation software
- Printer output

Testing the  
quality of wet  
and dry gluten

### Application

The Glutograph-E represents the state of the art on the sector of gluten testing. The instrument enables

- Reliable, objective, and reproducible measurement of the stretching and elastic properties of washed wet gluten and of dry gluten mixed with water to a dough
- Testing of sample weights usually occurring in practice when gluten is washed out
- Testing flour quality with regard to its suitability for noodle production
- Recognition of drying and heat damage of flour and dry gluten



# Brabender

# State-of-the-art measuring system and software

## The new Glutograph-E

### The principle

The measuring system of the Glutograph-E consists of two parallel, round, corrugated plates mounted at a defined distance opposite each other. The sample is put in-between these two plates.

The fixed distance and diameter of the two plates provide a defined sample volume and reproducible sample geometry.

While the upper plate stands still, the lower one is turned with a constant force -

independent of shear angle and sample. Depending on the gluten quality, this constant force (shear stress) stretches the sample more or less, i.e. the lower plate is deflected more or less quickly against the upper one. This deflection (shear angle) is recorded as a function of time. After having reached a certain deflection, the sample is released and recovers according to its elasticity.

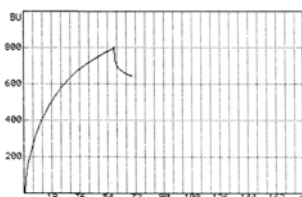
### The diagram

The resulting diagram first shows the stretching process (rising curve). The falling curve in the second part represents the recovery of the sample.

The shearing time (time up to reaching a certain preset deflection) is a measure of the stretching properties of the sample. The recovery of the sample after a certain time mirrors the elasticity.

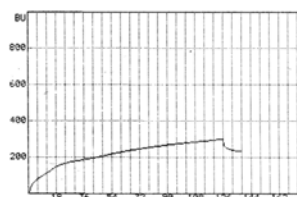
#### GLUTOGRAPH E

Date: 04/26/2004  
Time: 10:03  
User: BRAB  
Sample Type: GLUT.T1  
Stretch: 57s/800.2BU  
Relaxation: 10s/645.3BU



#### GLUTOGRAPH E

Date: 04/26/2004  
Time: 09:06  
User: BRAB  
Sample Type: GLUT.02  
Stretch: 125s/302.9BU  
Relaxation: 10s/235.0BU



Measuring diagrams of different qualities of gluten

### Customer Service

C.W. Brabender® 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.

Contact the technical staff at C.W. Brabender®...discuss what We can do for You...

#### Technical data

Sample weight	approx. 2 - 3 g
Torque measurement	electronically
Printer port	RS 232
Mains connection	115/230 V, 50/60 Hz
Dimensions (H * W * D)	320 * 290 * 340 mm
Weight	approx. 12 kg

Subject to change of design and technical modification without notice.

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