



C.W. Brabender®
INSTRUMENTS, INC.

Half Size Mixer

Mixer/Measuring Head

- **2-Piece Roller Blade Mixer**
- **30ml Capacity**



Half Size Mixer

Ideally suited for the analysis of the curing characteristics of phenolic, epoxy, various thermosetting materials, and high viscosity rigid thermoplastics...

- ASTM D-3795
- 53 764

C.W. Brabender® customers frequently need to conduct a variety of mixing tests on different types of materials. Therefore, we offer a product line of Mixer/Measuring Heads that are commonly used for general mixing studies of flowable materials.

The Mixer/Measuring Head is a miniature internal laboratory mixer (electrically or liquid heated) specially designed for attachment to a C.W. Brabender® drive unit.

The Mixer uses non-intermeshing, counter-rotating mixing blades to homogenize a single or multi component material blend on a laboratory scale volume. Ultimately, it increases the processing flexibility of a laboratory with diverse materials testing requirements.

Features and Specifications

C.W. Brabender® - Half Size Mixer

• SOFTWARE •



Thermosetting/Crosslinking

C.W. Brabender® Instruments, Inc. offers two exclusive software programs for mixing needs. WINMIX and MIXCORR...

WINMIX is the custom designed Brabender® Windows™ software program for the Intelli-Torque Plasti-Corder® torque rheometer and the ATR Plasti-Corder®.

The applications software evaluates torque curves and generates data necessary to characterize the material's flow behavior in accordance

with today's standard practices and protocols.

The MIXCORR Program is a Mixer Data Correlation Statistical Analysis Software Program, enabling the operator to overlay multiple curves and evaluate the data graphically and/or statistically.

It is an effective means of further analyzing mixer torque and processing data. In practice, it is helpful in solving processing problems with new formulations.

Technical Data

C.W. Brabender® mixing bowls and removable blades are cast of 304 Stainless Steel. Custom metallic and heat hardened surfaces are available upon request. A torque overload shear coupling is attached to each mixer, protecting the motor drives from torque overload and preventing damage to the Mixer/Measuring Head...

The Half Size Mixer is supplied with a 3:2 (drive:driven) gear ratio.
1 Heating Zone

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 Half Size Mixer software programs, contact the technical staff at C.W. Brabender®.

Discuss what WE can do for YOU...

Blade Type	Blade Displacement	Shear Rate	Suggested Charge 70 % of Total at 1.0 Specific Gravity
Roller	30 cc	High	21 g

ROLLER blades are most commonly used for materials, which require a particularly strong shear force to form a homogenous melt: thermoplastics, and many thermosetting resins such as phenolics and epoxies.

The Roller Blade design is the highest shear blade available. The blades provide an intense mixing and shear action, due to the unique blade design and tight clearance between the rotors and mixing chamber.

Typical studies made on these materials with a Roller Blade mixer include fusion, lubricity, heat stability, crosslinking, and degradation



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