

# Laboratory Two-Roll Mill

Brabender: Prep-Mill



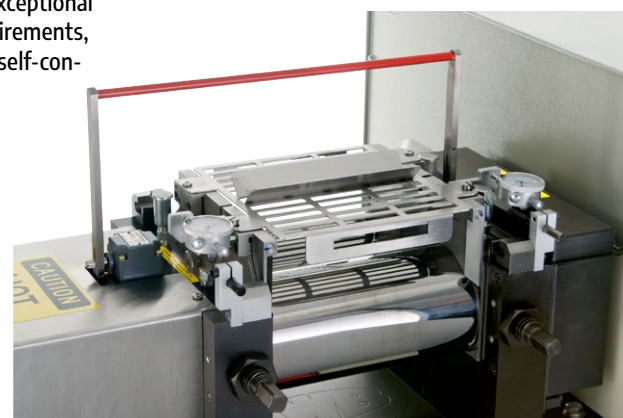
# Prep-Mill® Two-Roll Mill

## Features:

The C.W. Brabender® Instrument Inc.'s Laboratory Electrically Heated Prep-Mill® is a universal, heavy-duty machine designed for small-scale milling of elastomeric and thermoplastic materials. The Two-Roll Mill combines the features of precision construction, reliability and servability into a mobile and compact milling station, ensuring uniform batch-to-batch mixing characteristics.

The Electrically Heated Prep-Mill is designed to operate at temperatures up to 260 degrees C, with an accuracy of +/- 1 degree C.

Various standard safety features provide the operator with exceptional protection. To fulfill the special torque, speed and safety requirements, C.W. Brabender offers the Prep-Mill with its own drive - as a self-contained Mobile Mill Station.



## The Drive

A heavy-duty high torque system - the Prep-Mill drive is designed to provide high torque output from a 2.5 HP sensorless vector drive with built-in torque overload protection. Monitored by a digital DC amp meter with torque overload indicator, including a digital RPM indicator, variable roll speed of 0 - 30 RPM. Includes safety guard over the rolls and dial gauges to determine roll gap setting.

In addition to the operator trip bar over the mill rolls, 2 operator 'kick plates' are permanently mounted on both sides of the mill. There is also an emergency stop button on the top of the unit.

The entire drive is mounted on a heavy gauge mobile cart. The cart includes a cabinet with a drawer for storage of tools and accessories.

## Features:

The Electrically Heated Prep-Mill utilizes transfer rolls coated with Acrotherm TK400 (RC 70), an extremely durable coating that substantially extends the life of the roll while providing top quality mirror finish and tolerances, suited for High Wear Resistance.

- Electrically heated 4" x 8" Acrotherm TK400 rolls polished to a mirror finish
- Individual temperature controllers to control roll temperature
- Adjustable gap from .005" to .195"
- Standard friction ratio of 1.3 : 1 or 1 : 1 for Calendering
- Safety trip bar and operator kick plates with coupled electrical interlock
- "Flip-up" design for easy cleaning
- Brass stripping knife permits quick, clean removal of milled stock
- Mixing volume of approximately 250ml, depending on gap setting and bandwidth
- Contoured roll guides prevent material from "creeping off" the rolls and into the bushings

The Prep-Mill is everything a mill should be:

- Rugged
- Safe
- Precision manufactured

Since 1923, Brabender has been a leading manufacturer of instruments and equipment for testing material quality and physical characteristics in all fields of research, development, and industrial production in the chemical and food industries across the world.

Our state of the art application laboratory is available to our customers in South Hackensack, NJ, where you have full access to our full product line to help reach a solution for your application.

Ask how we can help you with new product development or testing of your own materials.