



*M250 with PLC Controls*

IDEAL FOR SMALL SAMPLE BATCHES AND PROCESSING

***Common for Product Research, Quality Control, and Technical Service Applications***

The Mini Mill is a self-contained bead mill designed for wet milling, fine grinding, and fluid dispersions. Available in various model sizes with chambers ranging from 25 - 2,000 mL. These mills utilize grinding media to generate high-shear and impact forces that reduce agglomerates or finite particles quickly and efficiently. Sub-micron particles can be achieved with the appropriate configuration.

This mill features a built-in, two-stage internal pumping mechanism and offers variable speed operation. Designed with a water-jacketed chamber and optional end plate cooling, temperature control is seamless. Quick-release latches enable removal of components for easy cleaning.

***Chamber Size: 25 - 2000 mL***

***Sample Size: ~ 25 mL - 10 L***

**BETTER  
MILLING**

## FEATURES/CAPABILITIES



M100 with Diverter  
End Plate and Stirrer

- ✓ **Lab Samples Milled Cleanly and Safely in Minutes**
- ✓ **Includes Built-in Pump, Pre-disperser, and Bead Chamber**
- ✓ **Custom Input Options: Funnels, Mixers, Lids, Plungers, Etc.**
- ✓ **Reliable Raw Materials Quality Control**
- ✓ **Rapid Assessment of Customer Problems**
- ✓ **Quick Solution to Production Difficulties**



XP Controls Option

**RE-CIRCULATION MODE** | With end plate set to re-circulate, the RPM is increased to desired level and product re-circulates until quality is achieved. Product is removed by turning the end plate to the single pass outlet position.

**SINGLE PASS MODE** | After re-circulation and setting end plate to single pass, the throughput rate can be adjusted from minimum to maximum flow rates.

**CLEANING MODE** | Addition of suitable solvent to the feed funnel with end plate in re-circulation position allows for efficient cleaning. Components can be quickly dismantled when necessary.

**SELF-CONTAINED PUMP** | First stage feed screw (essential for viscous products) with second stage pump dispersing ring (for liquid products) ensures positive and controllable pumping rates.

**BEAD SEPARATION** | 0.06 - 1.0 mm screen separators available for bead sizes 0.1 - 2.5 mm. Special arrangements can be made for smaller media sizes.

**CUSTOM CONTROLS** | General purpose, explosion-proof using standard NEMA-7 enclosures (pictured above), and intrinsically safe options are available. PLC controls include a color display, programming for operation, monitoring process variables, data collection, and more.

## SPECIFICATIONS

MODEL	M25	M50	M100	M250	M750	M1000	M2000
CHAMBER	25 ML	50 ML	100 ML	250 ML	750 ML	1000 ML	2000 ML
SAMPLE SIZE	25 - 100 ML	50 - 250 ML	100 - 500 ML	250 - 4000 ML	1000 - 4000 ML	1200 - 4000 ML	2200 - 7000 ML
POWER	1 HP	1 HP	2 HP	3 HP	5 HP	5 HP	7.5 HP
AGITATOR	0 - 5000 RPM	0 - 5000 RPM	0 - 5000 RPM	0 - 5000 RPM	0 - 3500 RPM	0 - 3500 RPM	0 - 3500 RPM

\*Larger feed funnels available to increase sample size

\*Agitator tip speeds range from 0-16 m/s for all models

## ABOUT **EMImills**

EMI Mills (formerly Eiger Machinery Inc.) is a division of Schold and worldwide leader in fine particle technology. Since 1979, EMI media mills and mixers have been premier options for applications that require stable/uniform dispersions and narrow particle distribution. For additional equipment outside of EMI's scope, including full-scale production designs, Schold has you covered. From single units to complete process systems, EMI Mills has a solution to elevate YOUR operation.