



EMI M250 with PLC Controls

PREMIER OPTION FOR
SMALL SAMPLE PROCESSING

Ideal 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, this mill can produce sub-micron particles. It utilizes grinding media to generate high-shear impact forces that reduce agglomerates or finite particles quickly and efficiently.

The Mini Mill features a built-in, two-stage internal pumping mechanism and offers variable speed agitators for precise control. Designed with water-jacketed chambers 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



EMI 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 | 0.15 - 1.0 mm screen separators available for bead sizes 0.3 - 3.0 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 [0.025 L]	50 ML [0.05 L]	100 ML [0.1 L]	250 ML [0.25 L]	750 ML [0.75 L]	1000 ML [1 L]	2000 ML [2 L]
SAMPLE SIZE	25 - 100 ML [.0025 - 0.1 L]	50 - 250 ML [0.05 - 0.25 L]	100 - 300 ML [0.1 - 0.3 L]	250 - 1000 ML [0.25 - 1 L]	1000 - 2000 ML [1 - 2 L]	1200 - 3000 ML [1.2 - 3 L]	2200 - 7000 ML [2.2 - 7 L]
POWER	1 HP [0.75 KW]	1 HP [0.75 KW]	2 HP [1.49 KW]	3 HP [2.24 KW]	5 HP [3.73 KW]	5 HP [3.73 KW]	7.5 HP [5.59 KW]
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 EMI mills

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.