



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**



Intrinsically Safe 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 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.