Pre-Mixers

Automatic and continuous mixing of resin, regrind, and additives at the machine throat.

Series MPM Pre-Mixers provide automatic and continuous thorough mixing of resin, regrind and additives as they enter the throat of the process machine. The Pre-Mixer is designed to mount directly to the feed throat of the processing machine with hopper and hopper loader mounted directly above.

ClockWise from upper left: MPM-50, MPM-18, MPM-9C, MPM-2

Visible Color Flow/No Clogging

Color or additive is introduced into an air pocket just above the mixing blades and dispensing is visible through the clear window. Non-clogging design provides consistent flow of blended material.

Easy Cleaning

Wrap around mix chamber insert is easily removed, allowing clear access to all material contact surfaces.

Stainless Steel Internal Parts

Facilitate cleaning and will not corrode or discolor.

Baffle Plate Prevents Packing and Improves Mixing

As material flows into the pre-mixer chamber, it must first cascade over a sloped baffle plate which prevents packing and eliminates downward pressure on the process screw - the drive motor runs cooler, higher mixing speeds can be used, and overall mixing is improved.

Safety Interlock (Models MPM-50 & MPM-18)

Clear hinged door is equipped with an electrical interlock for operator safety.

Reduce Color Consumption

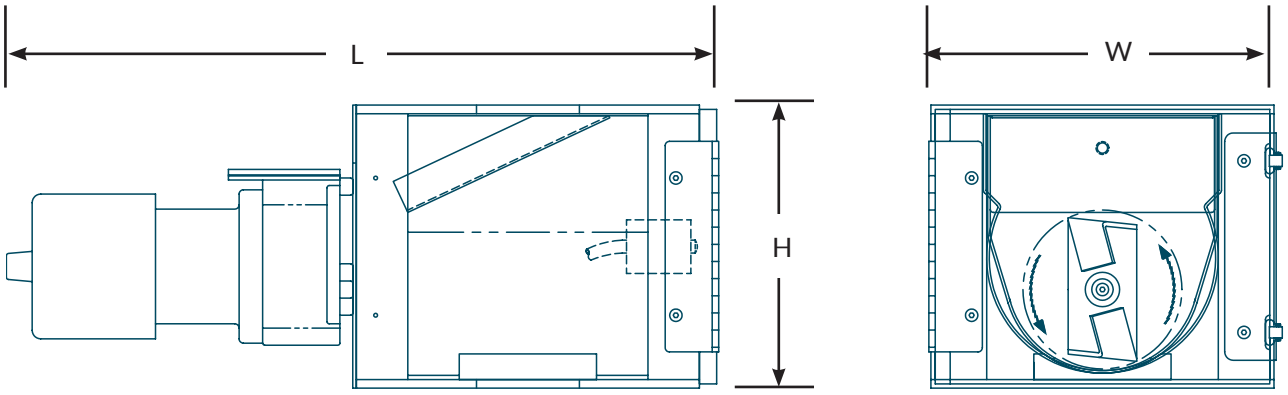
In many cases thorough mixing will actually reduce the amount of color input required to produce the depth of coloring needed.

Homogenous Blend Ensured Color consistency and uniformity is improved for liquid color, color concentrates or other additives.

The MPM Series Pre-Mixers incorporate many design features that set them apart from other mixing devices or inter-mixers.

- Widely spaced support pillars provide superior strength and stability over conventional welded flange design. Even top-heavy hopper loaders cause no problem in spite of the forward/backward motion of inserting and retracting the nozzle on injection molding machines. Welded flanges have been known to occasionally fail under such repeated severe stress conditions.
- Material flow baffle greatly reduces motor torque and improves mixing.

  As material flows into the Pre-Mixer chamber, it must first cascade over a sloped baffle plate. The baffle serves to remove the downward pressure caused by the weight of the material in the hopper above, thus preventing "packing" of material in the mixing chamber. Motor torque requirement is a fraction of that required by other mixers since the motor runs cooler without overloading.
- Large mounting surfaces accommodate the widest range of hopper bases and bolt patterns.
- Stainless steel construction of internal parts eliminates corrosion or discoloration and facilitates easy cleaning.
- No tools are needed to access material contact surfaces and all internal parts are easily removed for cleaning.
- Internal air pocket allows color to be dispersed into the mix chamber without the possibility of clogging. This also provides faster mixing because the air pocket allows greater material turbulence during mixing.
- Engineered mixing blade design creates a complex mixing pattern. In addition to rotational mixing, this blade design sets up a convection type of material movement from back to front, creating a complex circulation pattern resulting in more uniform dispersion of color.
- Large viewing window of ½" acrylic allows visibility of the entire interior of the mixing chamber to monitor material flow and color mixing. The window is hinged for easy access to the mixing chamber.



Specifications

MODEL	DESCRIPTION	THROUGHPUT	L		W		H	
			in	mm	in	mm	in	mm
MPM-2	2 lb Pre-Mixer	up to 100 lb/hr (45 Kg/hr)	16.6	422	6	152	6	152
MPM-9	9 lb Pre-Mixer	up to 500 lb/hr (227 Kg/hr)	20.8	527	10	254	8.3	210
MPM-9C	9 lb Pre-Mixer (with removable blades and hi-speed motor)	up to 500 lb/hr (227 Kg/hr)	20.8	527	10	254	8.3	210
MPM-18	18 lb Pre-Mixer	up to 1500 lb/hr (680 Kg/hr)	20.3	414	14	356	15.8	403
MPM-50	50 lb Pre-Mixer	up to 5000 lb/hr (2,268 Kg/hr)	34.8	883	16	406	26.8	679

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