

# MP Viscosity Control System (VCS) Mixer

**BATTER MIXING ACCURACY IS THE HEART OF EACH COATING SYSTEM. THE MP VCS MIXER ALLOWS PROCESSORS TO EXCEED THEIR QUALITY AND YIELD SPECIFICATIONS.**

## Machine Features

- Ultrasonic in-line viscometer controlling a wide range of viscosities with extremely tight tolerances. No calibration required. CIP capable
- Construction is all stainless steel frame with US standard fasteners, bearings, sprockets, belting and shafts with sanitary open frame design
- Fully automated controls using an A&B PLC & color touchscreen for 100% automated control of batter mixing and monitoring
- Electrical controls characteristics:
  - Automated start-up sequence for more consistent and quicker start ups
  - Stainless steel NEMA 4X enclosures
  - Temperature monitoring in mix tank and supply water
  - Shut down feature that reduces batter waste as shutdown from approx. 65 gallons to as low as 5 gallons
  - Ethernet networking capability
- High efficiency 50 and 70 gallon insulated tanks
- All stainless steel viscosity pump and motor with direct drive



*MP Viscosity Control System (VCS) Mixer. Patent Pending*



*Optional TCS, Tempura Mixer*

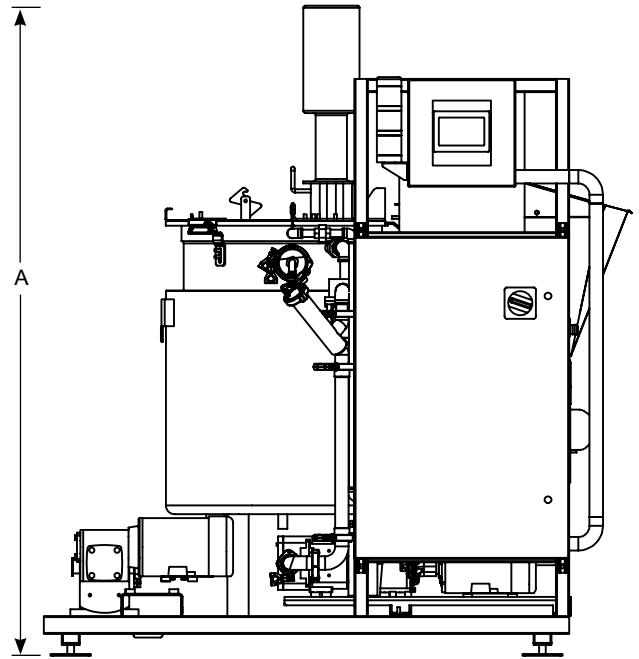
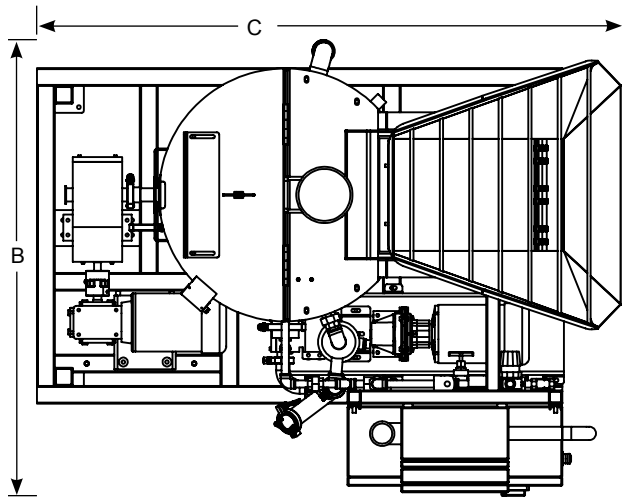
- Stainless steel 2 hp mixer
- Sanitary stainless steel water piping
- Stainless steel feed pump and motor with direct drive are controlled using variable frequency drives for speed and flow control with push-button control
- Ergonomically designed low profile batter hopper (48" feed height/100 lb. capacity)
- Can produce batter with tolerances of less than one-third of a cup second, which equals 5-6 centipoise
- Stainless sanitary piping

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## Technical Information

### MACHINE DIMENSIONS

Machine	A	B	C
VCS	72.625"	50.875"	65.625"



Note: Positive displacement pump option shown

### UTILITY MATRIX

voltage	phase	amps	water	refrigeration	pipe conn.	comments
480/230	3	30/60	15 gpm		1/2" line/60 psi	Supply circuit to control panel  Water meter not included. Incoming water temperature can be monitored using a RTD, supplied by customer. Chilled water supply recommended.
				10 ton	1" NPT (male)	Refrigeration solenoid supplied by customer (120V). Tanks have side and bottom jackets. Preferred refrigerants: chilled water, Glycol or Ammonia
					1 1/2" sanitary	Feed pump outlet that connects to the batter applicator.
					1 1/2" sanitary	Return pump pipe connection to tank
						Dry mix hopper capacity: 100 lbs. Hopper height: 48" Mixing tank capacity: 50 gal.

Specifications subject to change

### - SERVICES OFFERED -

- 24/7 Service
- Spare Parts Department
- Application Support
- Technical Support
- Line Audits

### - MP WARRANTY POLICY -

*MP Equipment will repair or replace any MP manufactured component that fails due to defect in material or workmanship within 24 months from shipment.*

*All OEM parts covered by individual warranties.*

**MP** EQUIPMENT COMPANY  
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