

The new M Series is the most flexible liquid polymer feeder yet. Because the polymer feeder specified today may not go into operation for two or three years, the M Series is the best choice to handle current and future polymer technologies.

The M Series combines Stranco's proven patented "Gen 2" motorized mixer in a rugged, easy-to-service design. Then Stranco adds two new unique options: variable speed mixing and automatic dosage control with constant solution strength.

**Polymer Evolution: Not Just a Theory**  
Chemists will continue to refine existing polymers and develop new ones, just as they have for more than 30 years. Operators should demand a polymer feeder that can keep up with breakthroughs in polymer technology for years to come. The M Series is ready to handle new polymer developments: ultra-high molecular weights, different charge densities, and even totally new chemistries.

The M Series comes standard with a constant speed motor ideal for today's liquid polymers. But as polymer needs change and as new polymers

A G E N E R A T I O N A H E A D



are developed, the M Series can be quickly field adapted. Specify the optional variable speed drive right from the beginning or add it later. Upgrading to the variable speed design can be done quickly and easily in the field.

### Optional Advanced Controls

Whether you adjust the M Series output remotely via a 4 - 20 mA signal or right at

the unit, water flow and polymer feed increase and decrease together, automatically maintaining a constant solution strength. Even primary and secondary dilution water are kept at the same ratio as output is adjusted. See separate Controls Data Sheet for more information on the three control options.

### Flexible and Rugged

Six sizes cover output ranges from 0.1 to 200 USGPM. Choose between 14 diaphragm, gear, or progressive cavity polymer pumps. The M Series' rugged design has been proven in the harshest environments: pulp and paper mills, mining operations, etc. The open frame permits quick and easy maintenance without disassembly.

# A Generation Ahead

## Clear mixing chamber

Provides visual indication of polymer feed and mixer performance.

## Open frame design

All components are easily accessed.

## Motorized mixing

Optional variable speed for the ultimate flexibility.

## Control choices

Three choices of control packages designed to meet a wide variety of applications. Easy to set up. Easy to operate.

## Stainless steel tubing

Compression fittings are utilized for component accessibility.

## Integral post dilution

Increases operational flexibility in fine-tuning system performance.

## Dilution water inlet

## Polymer solution outlet

## Easy installation

- Stainless steel connections
- Pre-wired
- Pre-plumbed

## Outdoor configuration

Washdown duty motors and NEMA 4X electrical enclosures.

## Corrosion resistant

304 stainless steel frame for long life.

## Rugged base

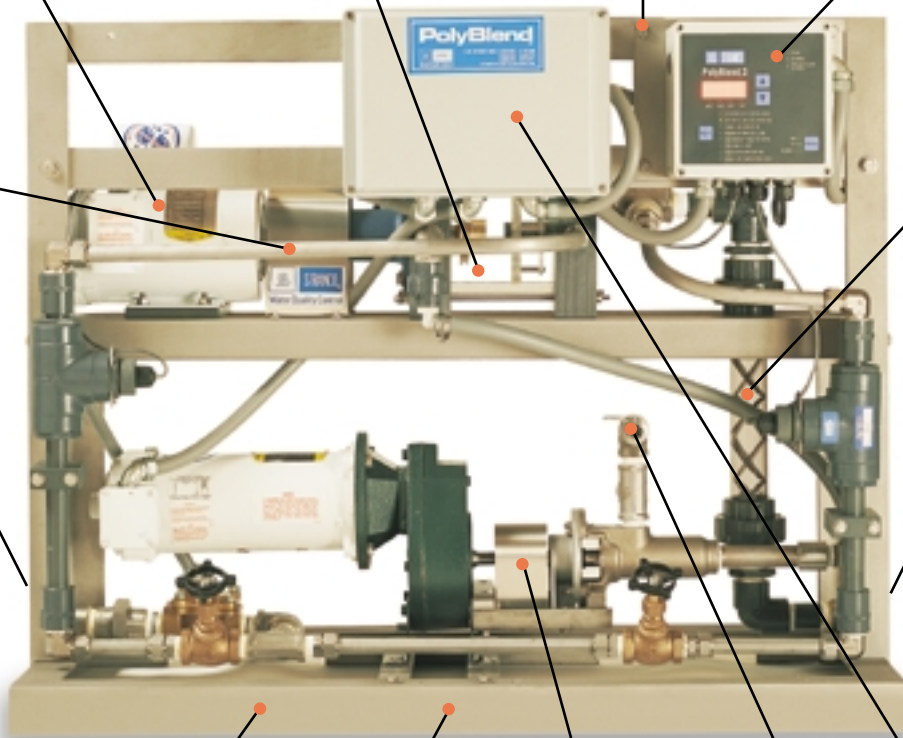
Suitable for wall, stand or floor mounting.

## Pump interchangeability

- Stainless steel gear
  - SS progressive cavity
  - Diaphragm
- Easily changed in the field to minimize downtime.

## Pump priming port

Allows for quick start-up with no mess and no additional piping.



# Patented Motorized Polymer Mixer

The M Series uses Stranco's patented multi-zone mixing. The first zone exposes the polymer to a high energy environment to minimize agglomeration. Reduced mixing energy in the second zone protects the fragile polymer chains from fracturing, making more polymer available for work. The baffling is designed to create a tapered mixing regime. The optional variable speed mixing optimizes the hydration process within each zone regardless of the type of polymer in use.

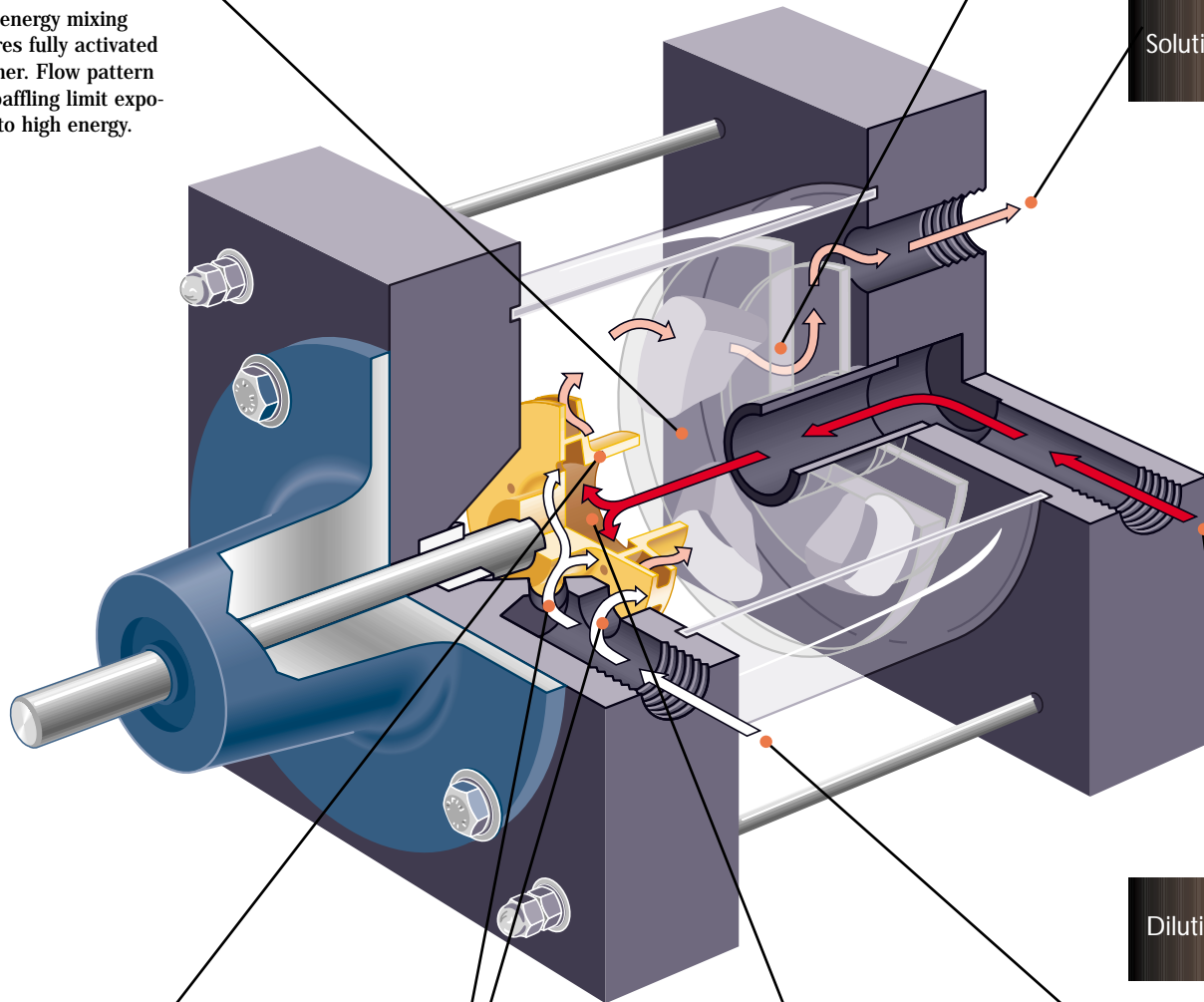
## Primary mixing zone

High energy mixing ensures fully activated polymer. Flow pattern and baffling limit exposure to high energy.

## Secondary mixing zone

Solution travels to a low energy zone through a baffle plate so activation can continue without damaging the polymer.

## Solution discharge



## High speed open vane impeller

High energy mixing at the point of initial wetting to expose individual polymer particles to dilution water and prevent agglomeration.

## Polymer injection points

Polymer is injected into the impeller and at the impeller tip to increase hydration of polymer particles.

## Water injection point

Water is drawn into the impeller throat to mix with polymer.

## Neat polymer inlet

## M SERIES MODEL NUMBERING GUIDE

The model numbers for the M-Series units can be generated as follows:

**EXAMPLE: M 1 8 0 0 - P 1 8 A B - V**

**Water Flow Rate  
in GPH (LPH)**

40/(152)  
120/(456)  
600/(2280)  
1800/(6840)  
6000/(380 LPM)  
12000/(760 LPM)

**Pump Type and Output in GPH (LPH)**

Diaphragm	Gear	Progressive Cavity
D.4/(1.5)	G18/(68)	P5/(19)
D1/(3.8)	G36/(137)	P18/(68)
D2.5/(9.5)	G60/(228)	P27/(103)
D4/(15.2)	G200/(760)	P51/(194)
D10/(38)	G660/(2508)	

**Options**

V - Variable speed mixer

**Controls**

A - On-Off-Remote  
B - Microcontroller  
C - Flow Proportional

**Voltage**

A - 115VAC/60Hz/1ph  
B - 460VAC/60Hz/3ph  
C - 230VAC/60Hz/1ph



Water Quality Control

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