

Model VMF-90E™ Volumetric Screw Feeder with Mixing Tank

- Automatic metering screw feed system for mixing and dispensing dry polymers into a secondary process
- Ideal for water, wastewater and chemical processing applications
- Heavy-duty, gear-driven auger for metering mechanism
- Built-in hopper capacity of 3.6 cu. ft.
- Feed rate 1.02 to 10.19 cu. ft. per hour
- Accuracy of within 1.0% of volume
- Optional gravimetric feeding with integrated “Loss in Weight” system



Automatic Metering Screw Feed System for Mixing and Dispensing Dry Polymers into A Secondary Process

The Model VMF-90E Volumetric Screw Feeder with Mixing Tank has been designed to be an “all in one” skid package option for adding a solution tank type dry chemical addition process. VMF-90E is the perfect choice when you need to control the addition of small to medium solution doses of chemicals to a process. MADE IN USA.

Standard Features

- Rugged, corrosion resistant 304 stainless steel Rugged, carbon steel construction with corrosion resistant zinc oxide primed, dry powder epoxy coating
- Built-in 3.6 cu. ft. gravity fed hopper with maintenance access hatch and integrated load cell attachment point
- Stainless steel, 1.5” diameter open helix feed screw
- Standard concentric material conditioning overwind auger
- Electric vibratory hopper agitator/material conditioner
- Remote location mounted, programmable SCR motor controller with HMI screen in water and dust proof NEMA 4X stainless enclosure
- 90 VDC right-angle geared, wash down motor
- 35 Gal. solution mixing tank with mixer motor and propeller

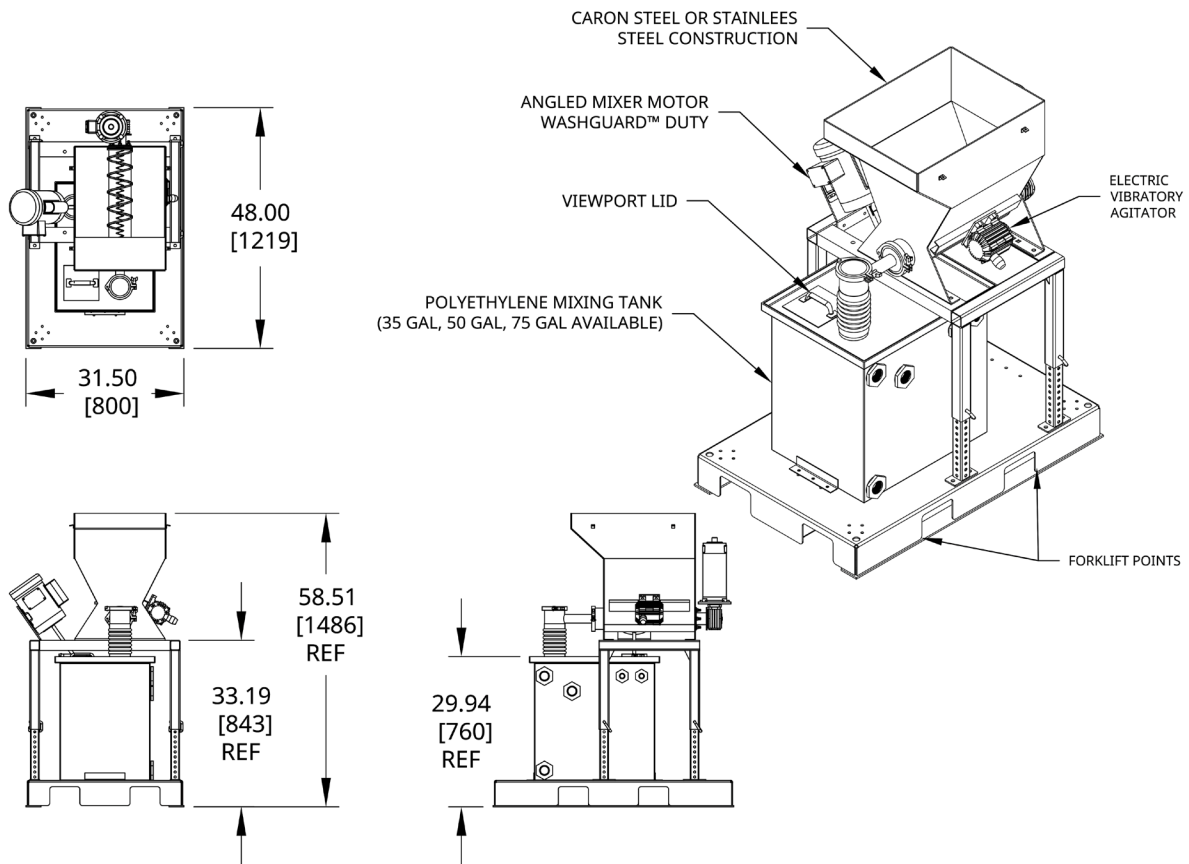
Options

- Integrated “Loss in Weight” measurement system with four (4) load cells and Model AccuPro 5000 Digital Controller
- All 304 stainless steel construction (except feeder stand and base)
- Explosion proof motor
- Pneumatic vibratory agitator
- 50 or 75 Gal. solution mixing tank
- Single bag loader (carbon steel or 304 stainless)
- Removable lids (carbon steel or 304 stainless)
- Adapter lids (carbon steel or 304 stainless)
- Programmable controller module stand

Chemicals

- Feeder and scale are designed to accurately dispense: Aluminum sulfate (alum), calcium hydroxide (hydrated lime), carbon, ferric and ferrous sulfate, magnesium hydroxide, polymers, potassium, soda ash, sodium sulfite and thiosulfate, and other dry powders or pelletized materials

Model VMF-90E™ Volumetric Screw Feeder with Mixing Tank Specifications



General Specifications

| PART NUMBER | VMF-90E |
|---------------------------|---|
| Construction | Carbon steel with corrosion resistant zinc oxide primed, dry powder epoxy coating - 304 stainless steel optional (except feeder stand and base) |
| Hopper Capacity | 3.6 cu. ft. |
| Feed Rate | 1.02 to 10.19 cu. ft. per hour |
| Accuracy | 1% of volume |
| Feed Screw | 1.5" diameter open helix feed screw in 304 stainless steel |
| Overwind Helix | Concentric overwind material conditioning auger in 304 stainless steel |
| Controls | Adjustable, SCR motor controller in water and dust proof NEMA 4X stainless enclosure |
| Control Input | 4-20 mA |
| Motor Type | Right-angle geared, TENV 90 VDC, Washguard® motor 1/2 HP, 83 RPM |
| Available Motors | Explosion proof - 1/2 HP motor and gearing |
| Vibratory Agitator | Electric (Pneumatic is optional) |
| Mixing Tank | 35, 50 or 75 Gal. with mixer motor and propeller |
| Ambient Temperature Limit | 10°C - 40°C |
| Power | 115/230 VAC, 50-60 Hz, 4 Amps |
| Weight | Contact factory |

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