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

Standard Features

- 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 1020-1 5 Digit Scale 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

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**Typical Specifications**

The Volumetric Screw Feeder with Mixing Tank must be constructed of rugged, carbon steel with a corrosion resistant zinc oxide primed, dry powder epoxy coating. The feeder shall include a heavy-duty, gear driven auger metering mechanism with a stainless steel auger, concentric helical overwind auger and built-in gravity fed hopper. All hardware shall be stainless steel. A programmable SCR controller module with HMI screen must be remote location mountable and housed in a water and dust proof NEMA 4X, UL approved enclosure. Auger shall be powered by a 1/2 HP DC motor and have integrated electric vibratory agitator/material conditioner. Feeder shall feature an integrated 35 gal. solution mixing tank with mixer motor and propeller.

Feeder shall be a Model VMF-90E™ as manufactured by Scaletron Industries Ltd., Plumsteadville, PA.

**OPTIONS FOR "LOSS OF WEIGHT SYSTEM"**:
The optional "Loss in Weight" measurement system for gravimetric feeding shall include four (4) NTEP approved stainless steel shear beam cells and stainless steel leveling bolts. A variety of scale indicators and controllers are available.

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

**General Specifications**

- **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 (Optional):** Electric (Pneumatic is optional)
- **Mixing Tank:** 35, 50 or 75 Gal. with mixer motor and propeller
- **Ambient Temperature Limit:** 10º C - 40º C
- **Power:** 115/230 VAC, 50-60 Hz, 4 Amps
- **Shipping Weight:** Contact Factory

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