

MERRICK

OMEGA[®] SERIES 25 VOLUMETRIC FEEDERS



Over 40 Years of Proven Performance

A Tradition of Excellence

In 1991 Merrick acquired the OMEGA[®] line of chemical feed products. The Series 25 feeders were an integral part of the OMEGA line that established a lasting tradition in dry powder feeding of chemicals and other materials. The Series 25 has an unsurpassed, proven history for performance and reliability. Today, the Series 25 feeders are used in almost all process industries and remain the benchmark for chemical metering in water and wastewater treatment.

Synergy

Merrick has long been recognized as one of the world's leading suppliers of volumetric and gravimetric metering systems. Established in 1908, Merrick held the original patents for dynamic weighing and has pioneered chemical metering in world markets.

With the integration of the OMEGA line of chemical feed systems, Merrick offers unsurpassed systems capabilities for water markets.

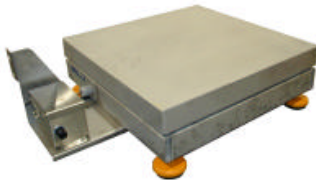


OMEGA 25-06 with Extension Hopper



MC³ Controller

Model 510-F Flexure Scale



Merrick Loss-in-Weight Conversion Kit

A 21st Century Facelift

How do you make a proven design even better? The answer is simple - keep it "evergreen." Merrick continually improves the Series 25 design by integrating new technology. Today, 21st century controls dramatically extend the range and capabilities of the Series 25.

The new heart of the Series 25 is the revolutionary XTRA DC[®] motor controller. Utilizing Pulse Width Modulating technology, the drive permits extraordinary turndown. Another benefit is the drive's efficiency. Utilizing a very low horsepower is not lost as heat. This permits the use of smaller motors to generate an incremental higher horsepower. The elimination of power robbing heat generation permits the XTRA drive to run at maximum turndown twenty-four hours per day, seven days per week without concern for damage to the motor or drive.



Designed for Flexibility

- ✍ Feed ranges can be changed with interchangeable sprockets
- ✍ Available with a wide range of helix and metering screw sizes and hopper capacities

Designed for Accuracy

- ✍ Feedrates are consistently accurate to within ? 1% by volume and ? 3% by weight

Designed for Low Maintenance

- ✍ All bearings sealed and lubricated for life
- ✍ All drive components are protected from environment behind removable covers
- ✍ Parts can be replaced with simple tools

FEATURES AND BENEFITS



Rugged Gear Reducers
Compact Design for Corrosive
Chemical Environments



Flexible Drive
Multiple Feedrates Are
Available by Changing
Sprocket Combinations



**Progressive Pitch
Helix**
Ensures Volumetric Effi-
ciency for Accurate
Feedrates



All Wear Components
Available Through Local
Suppliers

Slip Clutch Prevents
Helix Damage

Wide Use of Castings
Lowers Spare Parts
Cost

**Series 25 with
Covers Removed**



Low Density Material Conditioning
Pulsating Hopper Agitation Insures Reliable Feed
for Hygroscopic and Packing Chemicals



High Density Material Conditioning
Vibrator Agitation Insures Reliable Feed
for Heavy Granular Chemicals

The OMEGA Series 25 Keeps Your Material Flowing

The Series 25 is a rugged design that combines experience and engineering to protect your process. Reliable material flow is assured by the utilization of flow enhancement features to suit your chemical feed requirements:

Flex-Wall Pulsating Hopper

Materials, like hydrated lime, that are hygroscopic will tend to pack and stick together, bridging in the hopper and interrupting chemical feed. The flex wall, pulsating hopper option resolves this problem by providing a continuous agitation to condition the material and break bridges.

Electro-Mechanical Vibration

Heavy granular materials such as alum or potassium permanganate may tend to bridge in the feeder due to temperature or moisture. Free flowing materials may become aerated and flood through the feeder. Electro-mechanical vibration will help condition these chemicals for uniform, reliable feed rate.

Mechanical Conditioning

Light materials such as powder activated carbon, which may pack when vibrated or flood when agitated, respond more favorably to synchronous mechanical stirring. Synchronous stirring by the pulsating hopper in combination with a progressive pitch open spiral helix ensures uninterrupted material flow to the process.

Various Models to Suit Your Application

Several Series 25 models are available for your chemical feed applications. **For specific engineering and construction data, refer to the following specification sheets:**

Model 25-04 Specification Sheet

- Capacity (0.03 - 8.5 Ft³/Hr)
- Fixed speed AC drive controlled by one minute cycle percentage timer

Model 25-06 Specification Sheet

- Same as Model 25-04 except helix is variable speed via a DC drive and 0-100% potentiometer or remote analog input

Model 25-07 Specification Sheet

- Same as Model 25-06 except supplied standard with vibrator material conditioning, special seals and lubricant compatible for use with potassium permanganate

Model 25-11 Specification Sheet

- Capacity (0.08 - 72 Ft³/Hr)
- Same controls as Model 25-04

Model 25-12 Specification Sheet

- Same as Model 25-11 except helix is variable speed via a DC drive and 0-100% potentiometer or remote analog input

Accessories

- Dissolvers
- Day Bins
- Gates
- Dust Collectors
- Bag Loading Hoppers
- Feeder Support Stands



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