



**BUILT SMART
BUILT TO SURVIVE**

Model LWF-8-V Flexure Scale Loss-In-Weight Vibratory Feeder (for low feed rates)

The LWF-8-V Loss-In-Weight Feeder is designed to assure uniform, non-pulsating accurate feeding of a wide range of materials, from free flowing to friable to cohesive.

- Ideal for feeding materials at very low feed rates accurately, with second to second uniformity, and without feed rate pulsation.
- Simple, low cost design makes it an excellent choice for feeding free flowing materials such as pellets or granules.
- Widely recognized as the most suitable choice for feeding delicate materials such as fiberglass and other reinforcing materials.

Specialized scale design assures reliable, accurate metering.

The heart of any gravimetric feeder is its scale system. The LWF-8-V incorporates a unique flexure suspension scale configured exclusively for Loss-In-Weight Feeding:

- High efficiency “dead load” counterbalancing
- Non-tilting platform design
- Tolerant of shocks and overloads
- Mechanical force “summing” to a single load sensor
- Full range sensor utilization = maximum resolution
- Low mechanical resonance frequency
- Easily adapted to future re-rates

The THAYER Flexure suspension eliminates all wearing parts, such as bearings, pivots and knife edges, and is not susceptible to damage or loss of calibration from overloading. The system transfers all loading forces to a single load transducer, accurately measuring load regardless of load position. The ability of the system to cancel all extraneous force vectors and mass counterbalance the entire dead load enables the selection of the best possible load transducer for the application, thereby optimizing the overall sensitivity of the control system.



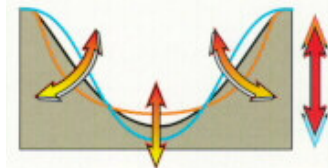
Specialized “Spiralator” Model.

The patented LWF-8-V “Spiralator” version assures reliable de-hoppering and accurate feeding of caking and cohesive powders as well as interlocking particles and delicate flakes. The gentle lifting action of the slowly revolving (2 rpm) conical coil discourages arch formations that can cause erratic flow or complete stoppage.

Two feed tray designs available:

Standard mirror finish stainless steel tray is used for non-adhesive powders, granules, fibers or flakes.

Optional patented elastomer membrane vibrating tray insert for cohesive/adhesive powders.



Patented insert creates a multiple node, standing (vibrating) wave which acts to shed any material that has a tendency to adhere to the conveying surface.

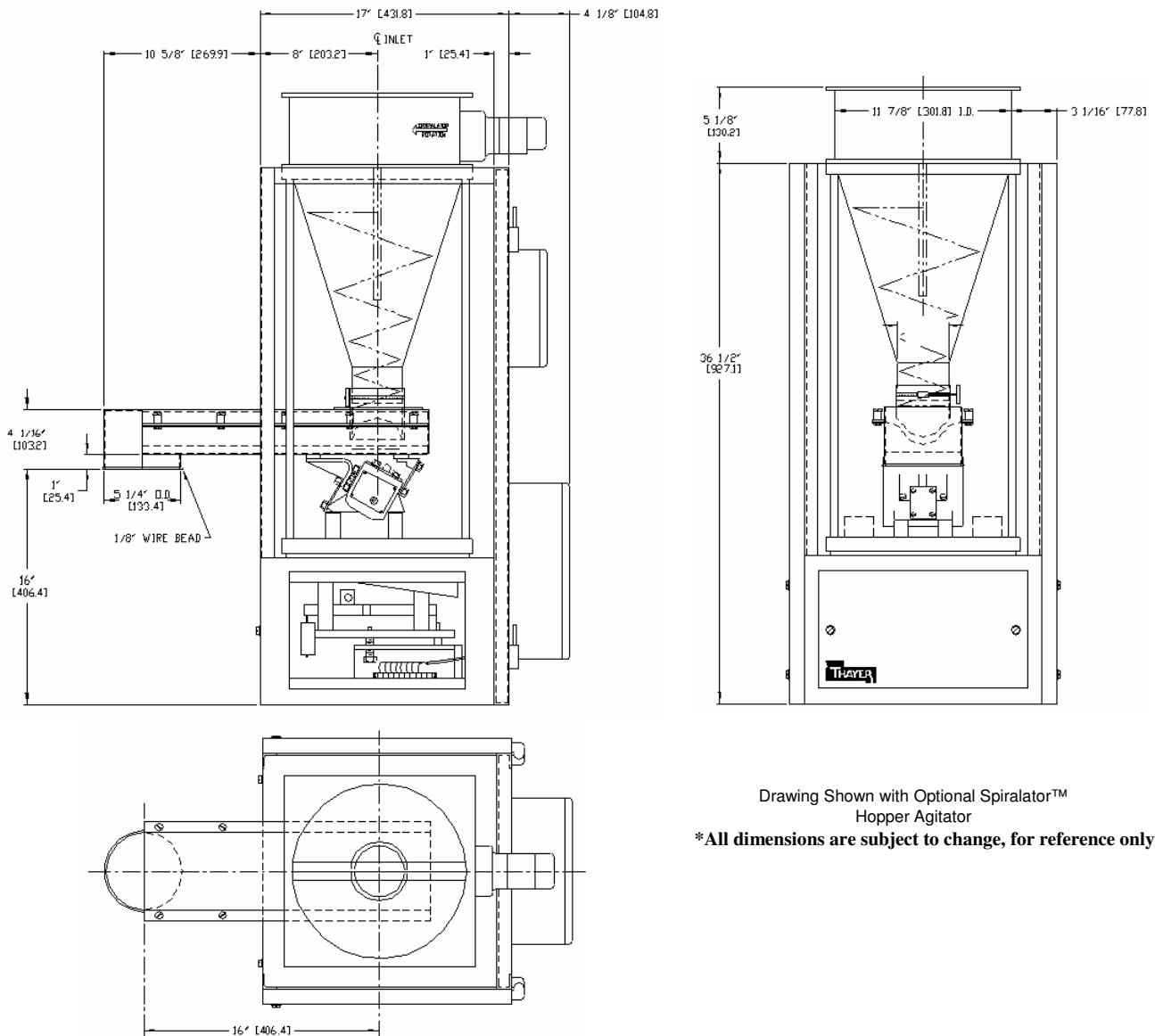
Thayer Scale-Hyer Industries, Inc.

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THAYER Model LWF-8-V Low Capacity Loss-In-Weight Feeder



Drawing Shown with Optional Spiralator™
Hopper Agitator

*All dimensions are subject to change, for reference only

SPECIFICATIONS

Volumetric Capacity: 60 Ft³/Hr.

Density Range: 10 to 100 Ft³ (160 to 1,600 Kg/M³).

Vibrating Feeder Drive: Electromagnetic Drive.

-4" (104 mm) wide tray, 115 VAC, up to 40 ft³/hr.

-5" (127mm wide tray, 115 VAC, up to 60 ft³/hr (Nodal- Membrane Tray).

Scale Type: "FMSS" Model 8 Flexure Scale System (dead load is mass- counterbalanced) and LVDT Weight Sensor.

Scale Capacity (live load): variable 1 to 25 lbs (0.45 to 22 kg).

Hopper Capacity: 0.5 ft³ (0.014 m³) liquid.

Electrical Requirements: 115 VAC, 50/60 Hz, 1 Ph.

Material Contact Surface: Electro-polish (material contact parts) or mill finish 304 and 316 Stainless Steel, other finishes available.

Enclosure/Frame: Standard, carbon steel painted enamel blue or stainless steel.

Accuracy: 0.25% to 1% of set rate ±2 sigma based on thirty 1 minute samples or 1.0% of weigh hopper storage capacity, whichever is greater.

Options

•Vibratory Feeder with Inter-Nodal Membrane

•Hazardous Area Modification: Consult Factory.

•Sanitary Construction.

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