



**BUILT SMART  
BUILT TO SURVIVE**

## Thayer™ Model LWF-8-V Low Capacity Loss In Weight Feeder

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 flexure style scale with a high resolution electronic displacement force sensor.

Flexure plate system eliminates all wearing parts, such as bearings, pivots and knife edges, and is not susceptible to vibration. Flexure suspension system transfers to a single load transducer, which accurately measures load regardless of load position. Most platform scales are not designed to be immune to side loading and/or torsional loading caused by plant environment. These factors can cause poor accuracy and poor calibration stability. The Thayer flexure system cancels all horizontal force vectors and also tares loads to be completely mass counterbalanced, permitting load cell sizing based on net rather than gross weight.

The Thayer flexure suspension system with its linear variable displacement transducer utilizes a series of high tensile strength steel flexures coupled to summing levers to accurately focus force to a tension type load sensor. Force measurement is decoupled from load position and mass counterbalanced to accurately measure net material weight.

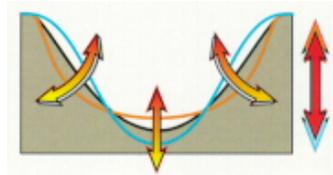


### **Specialized Material Conditioning System:**

The LWF-8-V when fitted with Thayer's patented Spiralator™ vertical lift agitator creates a patented feeder system that assures conditioned and uniform flow of caking and cohesive powders as well as interlocking particles and delicate flakes.

Two feed tray designs available:

- Standard Mirror finished stainless steel tray is used for non-cohesive pellets. Granules, fibers or flakes
- Optional, patented elastomer membrane vibrating tray insert.



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.

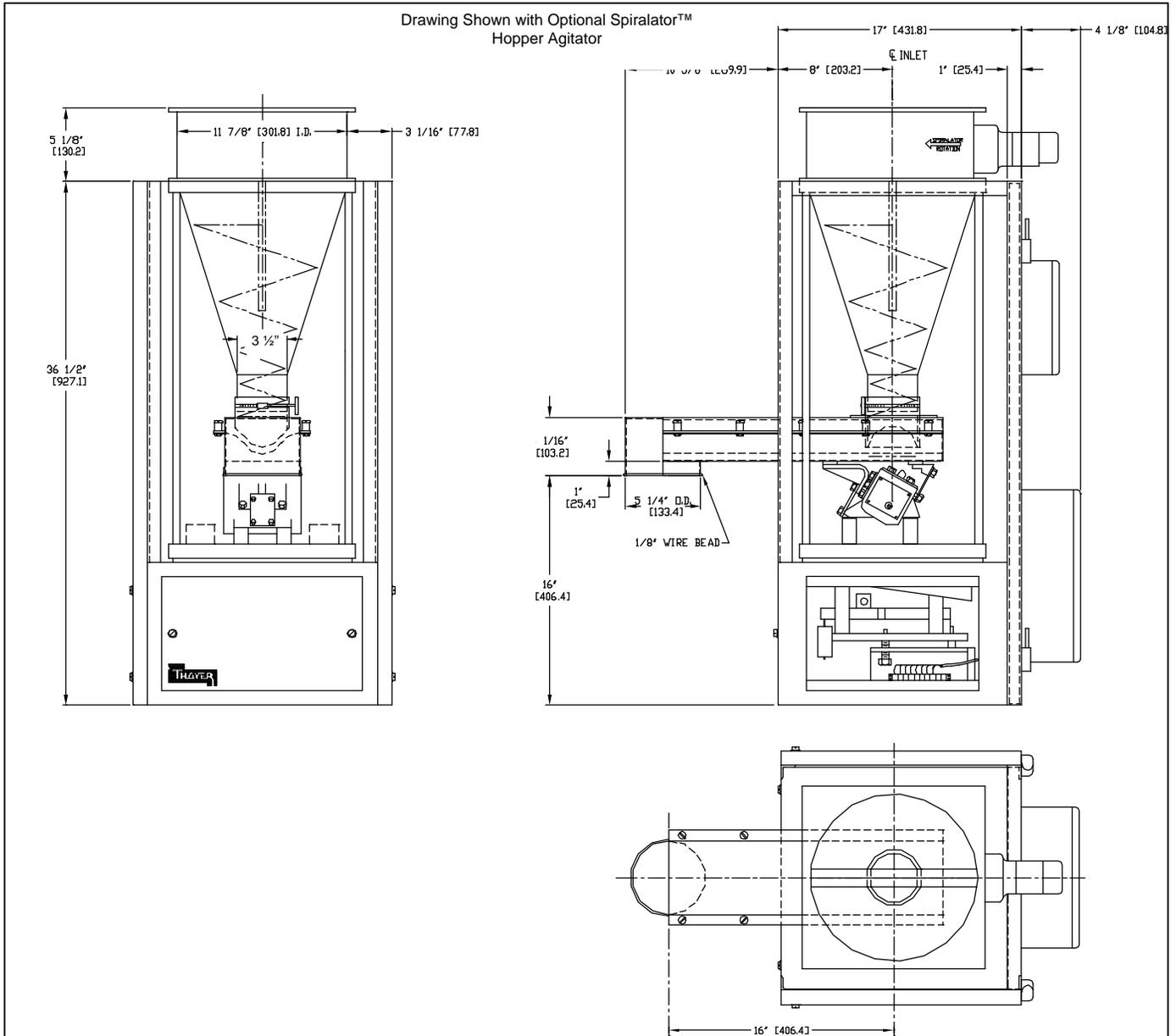
## **Thayer Scale-Hyer Industries, Inc.**

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# Thayer™ Model LWF-8-V Low Capacity Loss In Weigh Feeder



## SPECIFICATIONS

**Feed Rate:** 0.5 to 300 Lbs/Hr (0.23 to 136 Kg/Hr).

**Density Range:** 10 to 100 Ft<sup>3</sup> (160 to 1,600 Kg/M<sup>3</sup>).

**Vibrating Feeder Drive:** Electromagnetic Drive.

-4" (104 mm) wide tray, 115 VAC, up to 40 ft<sup>3</sup>/hr.

-5" (127mm) wide tray, 115 VAC, up to 60 ft<sup>3</sup>/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 50 lbs (0.45 to 22 kg).

**Hopper Capacity:** 0.5 ft<sup>3</sup> (0.014 m<sup>3</sup>) liquid.

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

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

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

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