



**BUILT SMART
BUILT TO SURVIVE**

THAYER Model LWF-SC-V Loss In Weight Cable Scale With Vibratory Feeder

Features:

- Accurately measures load regardless of load position.
- Immune to support structure deflections and process vibrations.
- Inherently self aligning to gravity.
- Nulls out heavy tare loads.
- 1,000% over load capacity.
- Scale may be suspended from above or supported below.
- Immune to shock or impact loads
- Easily accessible load cell can be re-rated to meet future capacity changes without removing the feeder for re-rating to meet future capacity changes.
- OCMP™ (Controller Output Compensation) & “EFT” Excitation Tracking improves and enhances instrumentation operation

The Thayer™ LWF-SC-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.

Specialized Material Conditioning System:

The LWF-SC-V when fitted with Thayer’s (optional) 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:

- A) Standard mirror finish steel tray is used for non-cohesive pellets, graduals, fibers and flakes.
- B) Optional, patented elastomer membrane insert fitted to our vibrating tray.

Patented “FMSS” (Force Measurement Suspension System) Cable Scale Technology.

The Thayer Cable Scale (patented) is the most rugged and “forgiving” Load Cell Weighing System available on the market. It can take more physical “abuse” and can tolerate more foundation distortion/deflection than all other known designs.

The exclusive Thayer Scale “FMSS” Cable Suspension design provides extremely high sensitivity. Feeder “dead” load (feeder and weigh hopper) is mass-counterbalanced so that only material weight (*live load*) is measured. This feature helps assure excellent control in “noisy” environments



Shown with optional Spiralator™

All of the articulate parts of the scale mechanism are supported from “*axially inextensible, but laterally yieldable*” suspension elements (stainless steel pre-stressed aircraft cable, which are arranged to hang freely) vertically throughout their lengths under all operating conditions, thereby avoiding any appreciable spring or hysteresis effects, variations in mechanical advantage, or binding due to imperfect leveling.

Because of this unique mechanical property of the force transmission system, any laterally directed forces and shocks on the scale or its supported machinery can not cause destructive shear and bending stresses to develop in the elements themselves or at the load cell junction. The system, being yieldable in the lateral direction, is therefore effectively and completely protected by using laterally placed “stops” in proximity of the weighed structure.

Weight loss is measured by an highly accurate, very sensitive, high output electronic force measurement sensor. The Thayer Series LC-137 weight resolver is a force measuring device designed specifically for use with Thayer Scale weighing systems. It is a precision-built, heavy duty device designed for long term stability and accuracy under the most demanding applications. It is initially calibrated and installed by the factory and normally requires no routine maintenance. So rugged is the “FMSS” Scale system that the LC-137 Weight Resolver is guaranteed for 15-years.

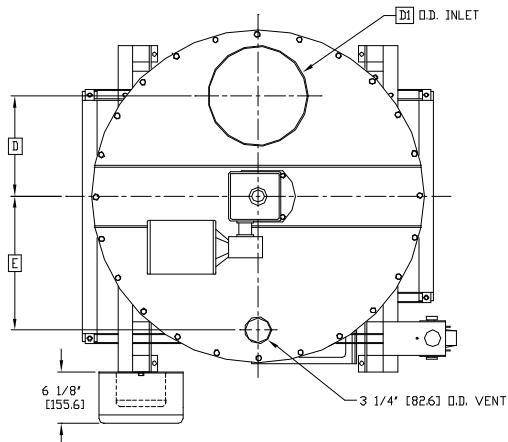
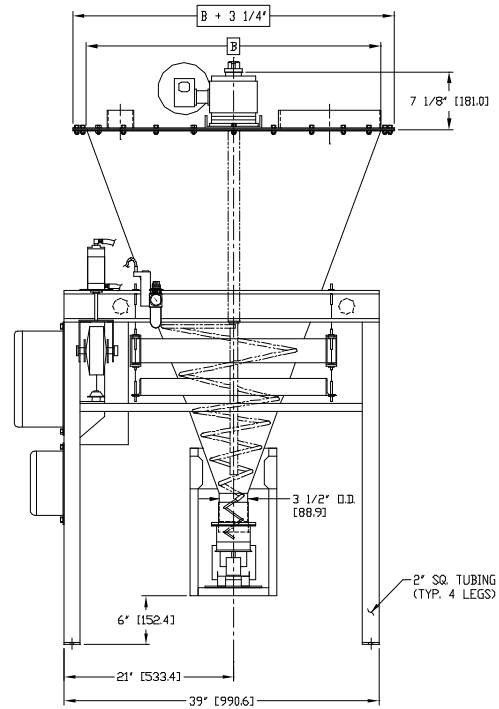
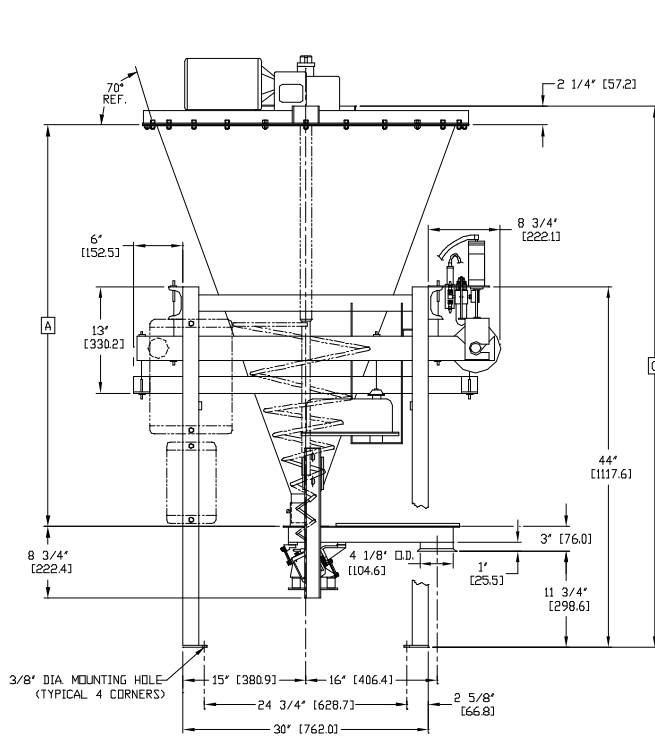
Thayer Scale-Hyer Industries, Inc.

P.O. Box 669, 91 Schoosett Street, Pembroke, MA 02359

Ph: (781) 826-8101 FAX: (781) 826-7944

E-MAIL Sales@ThayerScale.com

THAYER Model LWF-SC-V Loss-In-Weight Feeder With Spiralator®



*DIMENSIONS

HOPPER CAPACITY	A	B	C	D	E
2 C.F. [06 CM]	29' [736.6]	21' [533.4]	46 1/4' [1174.8]	7' [177.8]	9' [228.6]
4 C.F. [11 CM]	36 1/2' [927.1]	27' [685.8]	53 1/2' [1358.9]	8 1/2' [215.9]	12' [304.8]
6 C.F. [17 CM]	42' [1066.8]	30 1/2' [774.4]	59' [1498.6]	9 1/4' [235.0]	13 3/4' [349.3]
10 C.F. [28 CM]	49' [1244.6]	36 1/2' [927.1]	66' [1676.4]	10 3/4' [273.1]	16 3/4' [425.5]

D1	AVAILABLE FOR
6' [152.4]	ALL HOPPERS
8' [203.2]	4, 6, 8 & 10 CF HOPPERS
10' [254.0]	6, 8 & 10 CF HOPPERS
12' [304.8]	8 & 10 CF HOPPERS

*All dimensions are subject to change, for reference only

SPECIFICATIONS

Volumetric Capacity: Up to 80 ft³/hr (2.26 m³/hr) product dependent. Consult factory for higher feed rates.

Vibrating Feeder Drive: Electromagnetic Drive
 -4" (104 mm) wide tray, 115 VAC, up to 40 ft³/hr
 -5" (127 mm) wide tray, 115 VAC, up to 60 ft³/hr (Nodal-Membrane Tray)
 -7" (178 mm) wide tray, 115 VAC, up to 80 ft³/hr

Scale Type: "FMSS" Cable Scale System (dead load is mass-counterbalanced) and Model LC-137 Weight Resolver,

Scale Capacity (live load): variable Up to 500lbs (998 kg)

Hopper Capacity: 2, 4, 6, & 10ft³, consult factor for larger sizes.

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

Non-Material Contact Surfaces: Carbon steel painted with primer and industrial grade enamel paint, (special coatings and stainless steel available upon request).

Temperature: 32°F (0°C) to 130°F (55°C) standard. Consult factory for higher temperature.

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.

•**Automated Test Weight Lifter Assembly (ATWL):** Used to automatically conduct a zero and span calibration.

Special Features & Options

- Vibratory Feeder with Inter-Nodal Membrane.
- Spiralator™ Vertical Lift Hopper Agitator.
- Quick Release Vibratory Tray.
- Hazardous Area Design: Consult Factory.

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