

A major manufacturer of lawn care products uses over sixty Thayer Weigh Belt feeders, Loss-In-Weight Feeders and Conveyor Belt Scales to manufacture their various types of lawn care fertilizers.

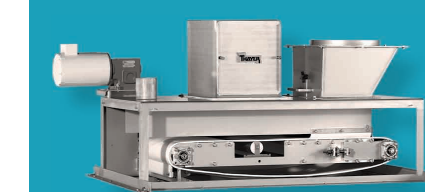
They start out with Conveyor Belt Scales to monitor amount of many of the raw ingredient as they enter the factory. Once in the factory, they are stored in silos and bins mounted above the various weigh feeders.

For the main ingredients they use Thayer's Model MD Heavy Duty Weigh Belt Feeders and for the smaller powder additives they use Thayer Model MXL Weigh Belts. For those fertilizers that require a pesticide, herbicide and/or fungicide additives they use either Thayer Loss-In-Weight Screw or Vibratory Feeders. All the weigh feeders are controlled through a Thayer supplied custom control panel using several Thayer EZ-3200 multi-feeder instruments and with the basis materials used in fertilizer production being explosive, all the feeders are designed for hazardous location installation.



The Models MD and MDL Weigh Belts are widely recognized mainline industrial continuous weigh belt feeders for low density, high density and multi-density bulk materials. They can be used with an open loop belt drive to gravimetrically totalize and measure the flow of material, or with closed control as a feeder and regulate the flow to a constant or varying setpoint

Unlike conventional weight sensing systems wherein the weigh idler is directly coupled to a series of load cells, the Model MD and MDL weigh belts incorporate a unique Force Measurement Suspension System (FMSS) interposed between the weigh idler and a single load transducer. The FMSS is a NET weighing system that counter-balances dead load so that the entire range of the load transducer is available for weighing the material. The FMSS also prevents erroneous horizontal force vectors from being interpreted as changes in weight for unsurpassed resolution and weight measurement repeatability.



The "MXL" is flexible and well suited to many applications. A full range of enclosures and scavenger systems for dusty materials is available. Multiple machine proportioning and blending systems are some of the common applications for the MXL type unit.

THAYER Loss-In-Weight feeders come in a variety of sizes and shapes, and can incorporate various volumetric devices, depending on the material, handling characteristics and flow rates to be encountered. Flow rates may be as low as 2 grams/min to over 100,000 pounds/hr. The most versatile feeders include the screw feeder and the vibratory pan feeder.

Thayer Scale offers the broadest range of Loss-In-Weight feeders. Each Loss-In-Weight feeder is designed to provide precision class accuracy and repeatability in the most demanding process environments.

Thayer Scale offers a powerful set of proprietary add-on accessories that defeat the problematic flow issues encountered by industry; bridging, flushing, adhesion, and cohesion to name just a few. Comprehensive process solutions that can only come from a company with over fifty years experience.



The Thayer EZ 3200 is a multi-processor controller specifically designed for weigh feeder applications. It consists of a family of modules that can be combined in many ways to suit a variety of applications. The control is performed by general purpose and special software running on the EZ-3200 modules and communicating over a Local Area Network (LAN) to provide many possible configurations for local and distributed systems.

The AP 32HS Host port provides a means for external devices (hosts) such as programmable logic controllers (PLC), computers or distributed control systems to exchange information with an EZ-3200. This port supports both RS-232 point-to-point and RS-485 multi-drop operation. The application software running within the AP32HS determines the type of information that is available.

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