

Founded in 1949, Thayer Scale is a pioneering developer of continuous weighing and feeding equipment for the dry solids conveying and processing industries. Our Conveyor Belt Scales and Weigh Feeders of both the Weigh Belt and Loss-In-Weight types, cover an extremely wide range of applications covering virtually all industries that involve dry solids conveying and processing. From Loss-In-Weight Feeders that feed vitamins into cereals at rates below 1 pound per hour to Conveyor Belt Scales weighing coal and iron ore at rates up to 10,000 tons per hour, there are more than 100 proven product variations available to suit most application requirements.

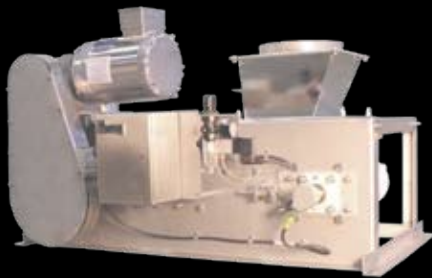
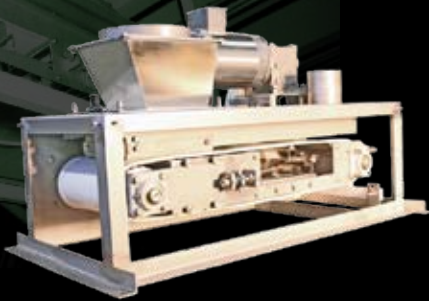
Each variation comprises a particular combination of proven THAYER mechanical and electronic platforms, chosen and configured to meet the unique needs of the particular application. These platforms, covering scale technology, instrumentation and materials handling elements, have emerged from ongoing research over many years, and are common to all THAYER branded equipment, regardless of type or size. They form the basis for Thayer Scale's unique reputation as a supplier of equipment that provides the rare combination of measurement precision and extreme robustness. Equipment installed more than 40 years ago continue to operate reliably and accurately.

**LIGHT INDUSTRY WEIGH BELTS**



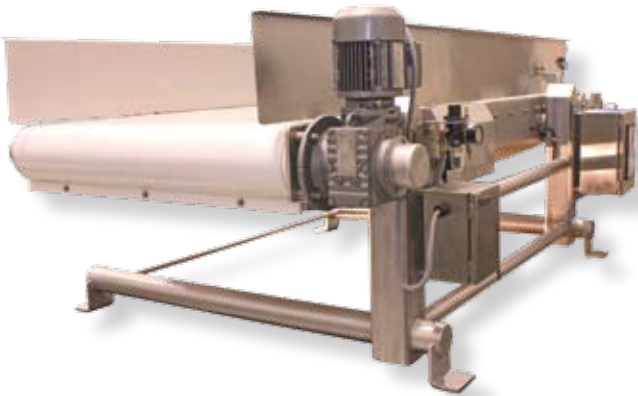
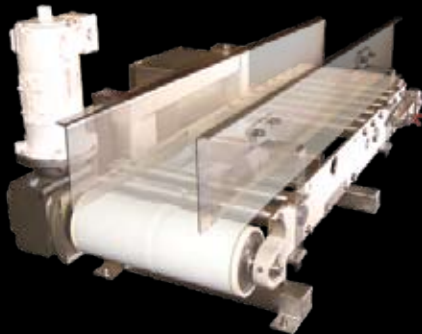
**MODEL "MWF" WEIGH BELT**

THAYER Model "MWF" weigh belt feeder is the smallest weigh belt Thayer Scale manufactures and it has been designed for high accuracy and long life. It is offered in a standard stainless steel package and is suitable for wash down environments. With applications ranging from grams per minute to tons per hour, and designs that handle dry particulate materials of all types and classifications.



**MODEL "MWF-OS" SANITARY WEIGH BELT**

Thayer Scales's new Model "MWF-OS" Sanitary Open Construction Weigh Belt Feeder is used for the processing of snack food, cereal, pasta, pet food or any other application where hygiene and ease of cleaning is important. The Model "MWF-OS" uses a rugged open frame construction, made from 304 or 316 stainless steel and is designed for "no-tools" disassembly. The Model "MWF-OS" can provide either "closed loop" gravimetric control of material feed rate or precise convey rate measurement and totalization of an uncontrolled or intermittent material supply.

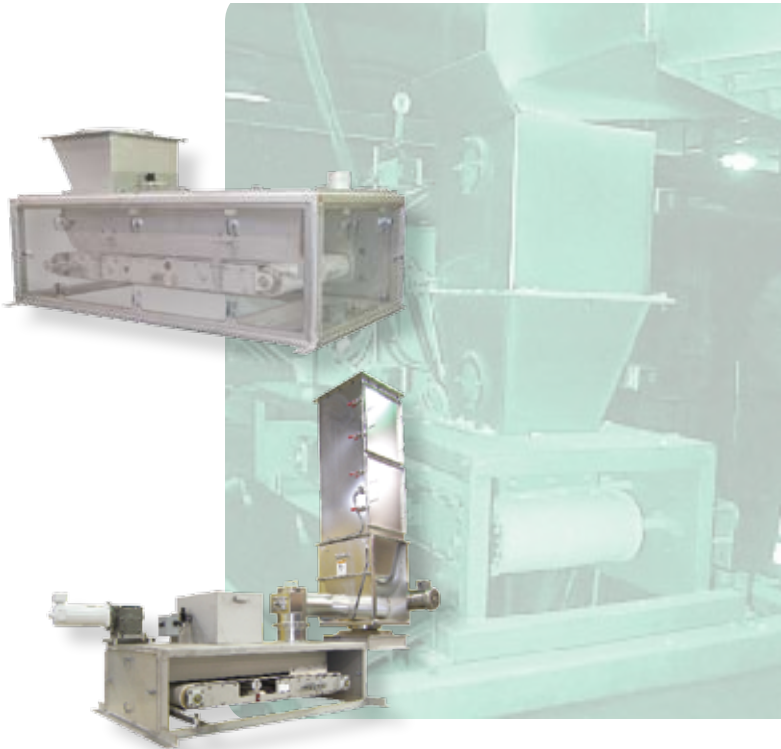


**Model WB-SGSP-OS SANITARY Weigh Belt**

Thayer Scale's sanitary Model **WB-SGSP-OS** is manufactured with all stainless steel and food grade components and is suitable for constant wash down environments. Its construction provides the food industry with a consistently accurate, low capacity weigh feeder that is easy to maintain with minimal downtime. Can be completely washed down with no tools needed for disassembly. All sensitive scale components are located outside the material handling area and are isolated by covers and other protective devices that guard against the often destructive forces generated from even normal cleaning practices.

**Model "MXL" ENCLOSED Weigh Belt**

The Model "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.



**Model "MXL" LOW DENSITY Weigh Belt**

THAYER Model "MXL-LD" is the only low capacity weigh feeder specifically designed to handle lightweight, low density products in the 1.0 to 5.0 lb/ft³ range while still delivering exceptional accuracy. The weight sensing system in every low density "MXL-LD" is designed to sense the net weight of the material being conveyed by the belt. Our Low Density "MXL-LD" is engineered exclusively for potato chips, textile fiber, tobacco and other very light weight products. Sanitary Model "MXL" is manufactured with all stainless steel and food grade components and is suitable for constant wash down environments. Its construction provides the food industry with a consistently accurate, low capacity weigh feeder that is easy to maintain with minimal downtime





## • HEAVY INDUSTRY WEIGH BELTS

Thayer Scale's Models "M", "MH", "MDH", "MD", and "MDL" Weigh Belts are custom designed and built to meet the special requirements of heavy industry. First designed in 1964 for steel mill service to feed flux materials (limestone, mill scale, dolomite, iron ore pellets, fluorspar and coke), the Model "M" Series Weigh Belt has been subjected to the extremes of heavy duty industrial use; abrasive lumps, dust, corrosive fumes, wide temperature fluctuations, and vibration without any detrimental effects on accuracy, reliability and operation. Thayer Scale Model "M-LD" Weigh Belts are the standard for high volume, low density weighing such as wood fiber, rock wool, tobacco, foam rubber, as well as natural and synthetic textile fibers.

THAYER Heavy Duty Weigh Belts provide:

- Long term accuracy and reliability with low cost of ownership.
- Load transducers are located external to material flow channel.
- Weigh bridge is insensitive to the accumulation of weight that accompanies tare build-up.
- Provides exceptional immunity to periodic overloads of uncertain magnitude that accompany particle jamming in the weighing region of the belt.
- Easily accommodates legs, and dust removal/scavenger systems.
- Accommodates a wide range of length and incline variation without significant changes in configuration.
- Individual carrying idlers can be repaired/replaced while the belt is in a fully loaded condition, without the need to remove skirt boards and/or de-tension the belt.
- Can be easily and economically adapted to support future capacity needs.

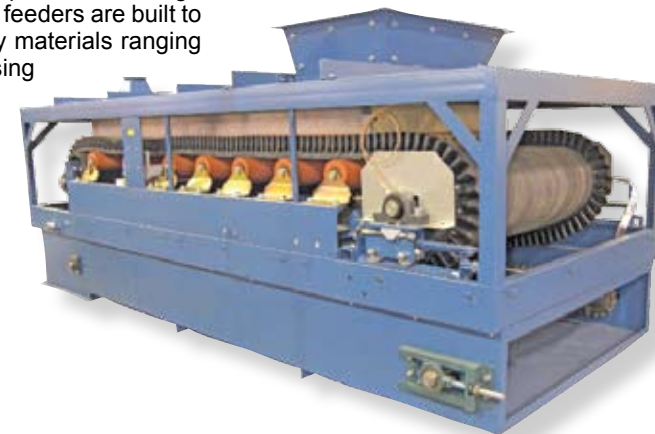
No other weigh belt design can provide an accuracy of  $\pm 1/4\%$  over the wide application range THAYER heavy industry weigh belts serve. From wood fiber at 1.0-3.0 lb/ft<sup>3</sup> to nickel shot at 150.0 lb/ft<sup>3</sup>. THAYER heavy industry weigh belts are truly "Built to Survive" providing long term accuracy and reliability.



MODEL MH WEIGH BELT

### MODEL "MDH" WEIGH BELT

Originally designed for steel mill service, Thayer Scale's Weigh Belt Model "MDH" design benefits put it into a class by itself. The Model "MDH" offers an extremely robust design with an intense commitment to quality and attention to detail. With over 60 years of weigh belt experience THAYER produces a weigh belt that is highly accurate, rugged and dependable. THAYER feeders are built to endure the rigors of high capacity feeding and heavy density materials ranging in particle sizes from fines to 6" lumps. The bottom line of using a THAYER Model "MDH" in your process translates into reduced operating downtime, lower overall cost and quick return on your investment.



### MODEL "M LOW DENSITY" WEIGH BELT

Thayer Scale's Model "M-LD" Low Density Feeder line has been specifically designed for weighing bulk materials having densities under 10 lb/ft<sup>3</sup>. These feeders find applications in tobacco, forest products (OSB & MDF), textiles, cereals and snacks (chips and flakes) Without question, Thayer Scale has more experience than any other manufacturer in weighing these low density materials. With an outstanding performance record in over 1,000 installations, the THAYER Model "M-LD" Low Density Weigh Belt Feeder represents the standard to which all others are compared. Many of these feeders have been in operation for more than 30 years with the only modifications being instrumentation upgrades to better suit the interconnection needs of modern-day automation schemes, or re-rating of either the load or speed sensing range to accommodate line capacity changes.

### MODELS "MD" and "MDL" WEIGH BELT

Thayer Scale's Models "MD" and "MDL" Weigh Belts are widely recognized mainline industrial continuous weigh belt feeders. They can be used with an open loop system to gravimetrically totalize and measure the flow of material, or with closed loop control as a feeder and regulate the flow to a constant or varying set point.

The Model "MDL" bridges the gap between standard low capacity and high capacity weigh feeders. Some materials are too abrasive for standard low capacity feeders, lump sizes can be too large or flow rates slightly exceed specified limits, resulting in low accuracy and constant maintenance problems. These applications often can not be reliably handled by larger, high capacity weigh feeders because the relatively low flow rates fall below specified limits. (for example: feeding 1.5" lumps of coal @ 2.0 STPH). The Model "MDL" is as ruggedly built as our higher capacity weigh feeders, to withstand abrasive materials, but is designed to operate at flow rates just beyond the limits of our light industry, low capacity feeders.

The Model "MD" is an extremely rugged weigh feeder that was originally designed for the harsh environment of the cement industry but can be used in a wide variety of applications. The Model "MD" is the ideal weigh feeder for medium to high feed rates of high bulk density materials across a broad range of particle sizes. The Model "MD" can be subjected to extreme environmental conditions such as abrasive dusts, corrosive fumes, wide temperature fluctuations and vibrations without any detrimental effects on performance or accuracy.

