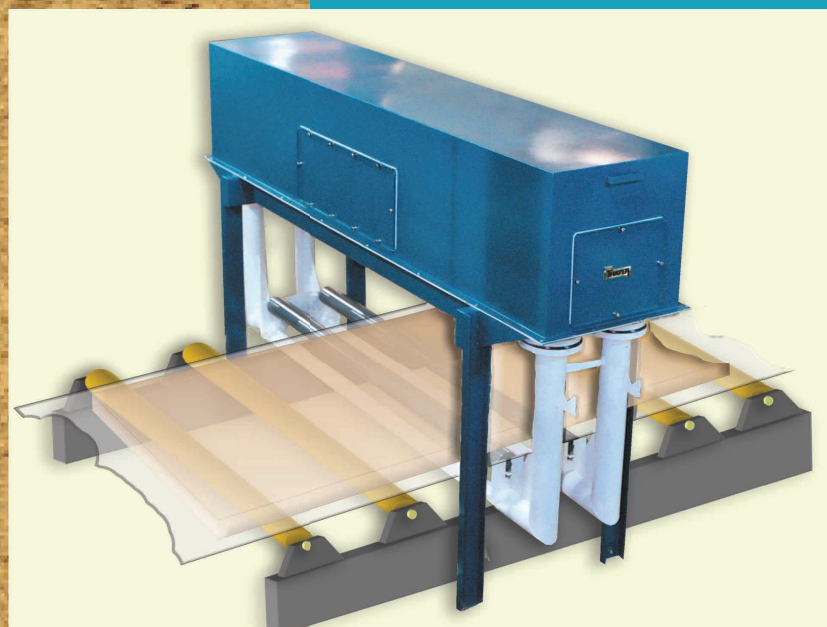
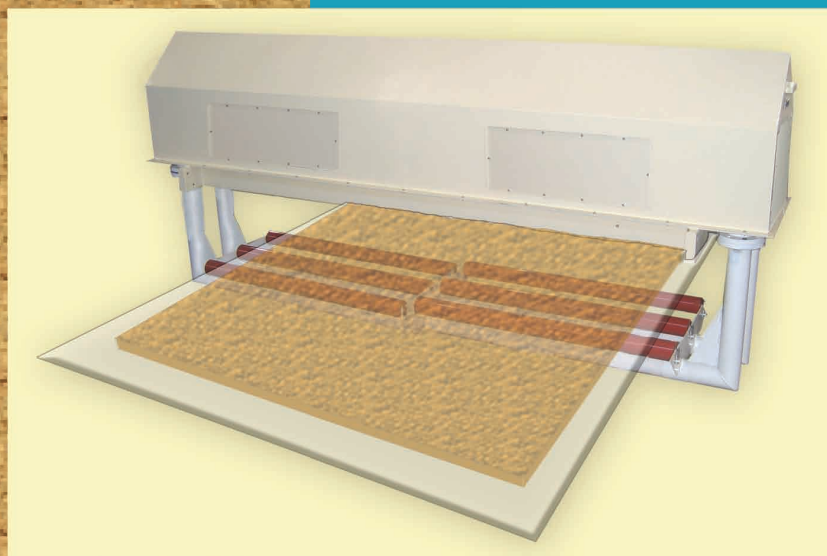


THAYER SCALE MODELS FP-M & FP-M TWIN



Model FP-M



Model FP-M Twin

THAYER MODELS "FP-M" and "FP-M TWIN

The THAYER Model FP-M is the low density belt scale of choice for accurately weighing a continuous, pre-pressed OSB/MDF mat stream. Thayer provides two designs, Model FP-M Single Scale or the all new FP-M Twin. Both designs will provide an accurate and repeatable load measurement that can be used to make intelligent forming system adjustments that will improve overall board quality and reduce the amount of off-spec board produced.

THAYER Model "FP-M" consists of a Force Measurement Suspension System (FMSS) interposed between a live, multi-idler weigh bridge and a single weight transducer. The FMSS is a moment-sensitive reaction device that functions as a force vector filter; allowing the sum of vertically directed load forces to produce a change in measurement output while blocking all of the extraneous horizontal force vectors (belt tension, friction, torsional forces, etc.) that produce measurement non-repeatability and calibration drift. The FMSS also provides a means to mass counter-balance all dead load (weight of weigh bridge, belt, etc.) and provide overload capability so that load cell selection can be made based on the NET, rather than GROSS requirements of the application. This unique design provides a low cost of ownership as the weight transducer can be inspected and/or replaced without first having to remove the weigh bridge.

The Model FP-M Twin Scale features two (2) separate Model "FP-M" Belt Scales, each with a Series 5200 Instrumentation System, arranged in a common support frame, specifically designed around a new or existing mat conveyor. Each Model "FP-M" has three (3) weigh idlers, each having height adjustable idler brackets to facilitate proper alignment of the fixed idlers to the idlers on the weigh bridge.

As standard, each weigh bridge section comes with standard 54" wide idlers for 96" wide mats. If this combination of idler width exceeds an existing mat conveyor, THAYER can provide the scale weigh bridge with custom width idlers.

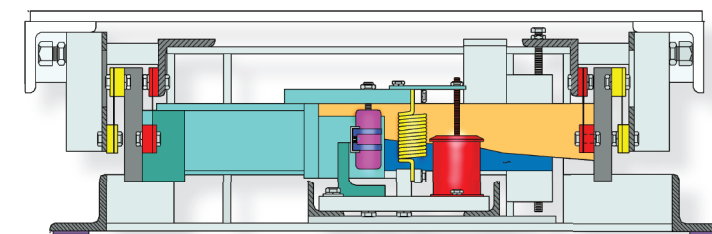
Each "FP-M Twin" Belt Scale system will provide a separate pounds per foot loading output. These outputs can be summed in a host supervisory control system to determine the total mat weight or provide two separate weight signals to determine if the density is higher from one side of the mat to the other.

THAYER instrumentation provides intuitive operator interface displays and can be equipped with a variety of serial and/or device level interfaces for seamless integration with mill host supervisory control system.

THAYER FLEXURE PLATE SUSPENSION SCALE Laboratory Accuracy in Industrial Environments

The Basic THAYER Flexure-Plate Suspension system utilizes a series of steel flexure plates to transmit gravimetric loads vertically from the load receiving element through levers to the specifically selected controls. The combination of mass counterbalancing against tare loads, frictionless flexure-mounted levers and a high resolution transducer produces a force measuring system beyond compare. Of significance is the fact that infinite weighings may be made without maintenance or calibration, regardless of atmospheric or factory conditions. In many instances, THAYER Flexure Plate Suspension Systems placed in operation in 1950 are still working without maintenance or adjustment.

- Sustained sensitivity without maintenance.
- Deflection less than 0.001 inch.
- Cancellation of horizontal force vectors.
- Nullification of heavy tare loads.
- Immunity to off-center or overhung loads.
- Load transducer completely isolated from overloads.
- Non-tilting platform design.
- Low mechanical resonance frequency.
- Load transducer utilization factor > 90%.
- Ability to re-rate scale capacity in field.



THAYER SERIES 5200 INTEGRATOR

The simplest high precision Belt Scale Integrator in industry today, the SERIES 5200 is the product of a careful, well thought-out program to eliminate the fears of many scale users that electronic instruments are too complex for the average plant maintenance man.



- The SERIES 5200 Thayer Scale's new generation of operator interface for control and monitoring of any process weighing and flow control equipment.
- For use with any Strain Gauge or LVDT type load cell.
- Powerful internal 24 bit (1 part in 4,000,000) load resolution produces unparalleled system accuracy.
- Minimal customer wiring. The Scale Unit (SU-5200) mounted at the conveyor gathers load, speed and temperature data and communicates this information to the central processor (CPU) through a 2-wire RS422/485 connection.

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