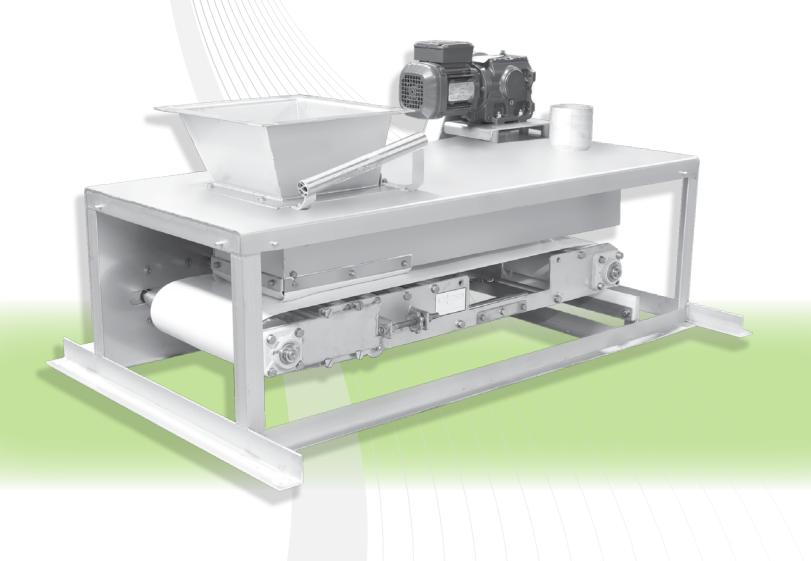
MODEL MWF-101 WEIGH BELT

RUGGED COMPACT HIGH ACCURACY EASY DISASSEMBLY

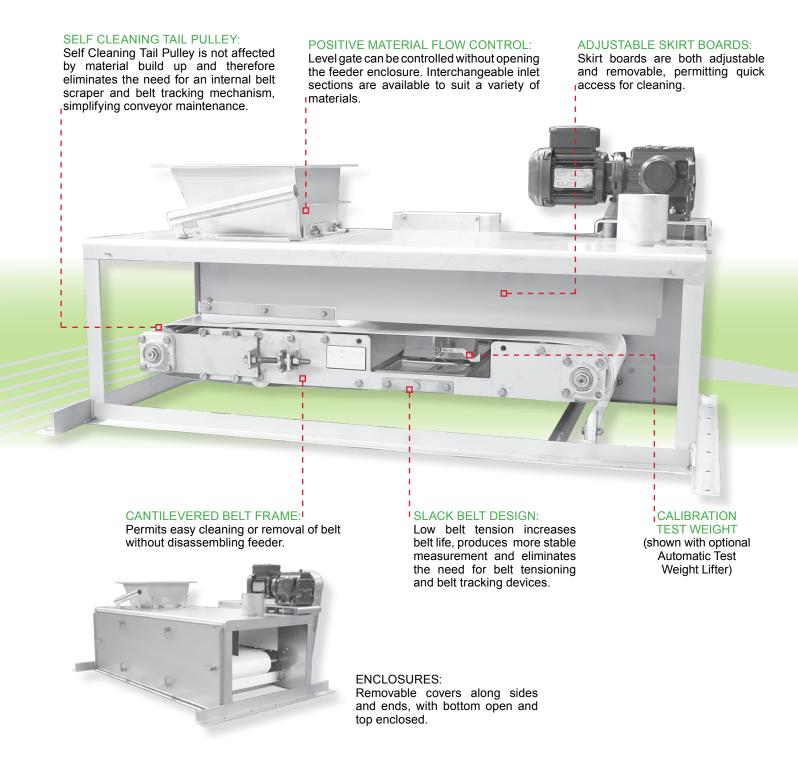


MODEL Light Industry, Compact Weigh Belt Feeder

Thayer Scale's Model MWF-101 is a widely recognized general purpose low capacity weigh belt feeder designed to operate accurately and reliably in harsh industrial environments with minimal maintenance. It can be used with an open loop belt drive to gravimetrically measure the flow of material, or with closed loop control to operate as a feeder and regulate the flow to a constant or dynamic set point.

A standard design coupled with dimensions and ratings that are tailored to each application add versatility to its capabilities. Its design for ease of maintenance and change of its ratings gives it a long useful life in a rapidly changing industrial environment.

When connected to the THAYER family of instrumentation it can be consistently and accurately calibrated and the measurements can be presented to operators and supervisory controls seamlessly through a variety of standard industrial interfaces. The instrument can control the flow of material as a master feeder or as a slave proportioning its feed rate to some other master signal.



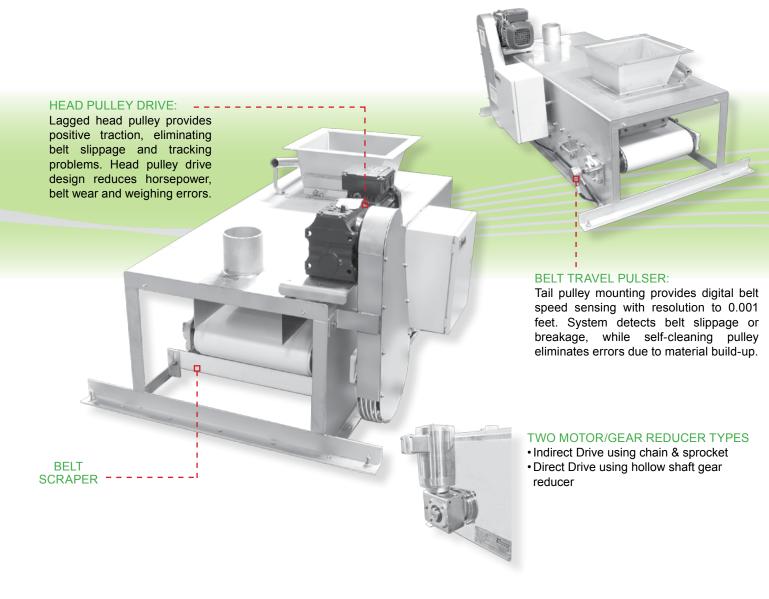
THAYER SCALE MODEL MWF-101 WEIGH BELT FEEDER

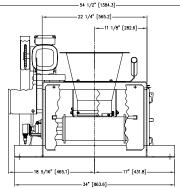
The MWF-101 Weigh Belt Feeder provides Thayer Scale accuracy, ruggedness and reliability and reduces measurement errors. Self cleaning pulley eliminates material build-up and belt tracking problems. Unique flared skirt design prevents material spillage and assures proper feed control. Rigid scale support system provides exceptional stability, assuring accuracy without frequent re-calibration.

Belt velocity is measured from the tail pulley, not the drive motor, providing a direct measurement of belt speed which improves both measurement and control of the material. Totally enclosed, gasketed design assures safe, dust free operation even when handling fine powder. The strain gauge load cell assembly can be easily removed then reinstalled without re-calibration of the feeder.

A standard design coupled with dimensions and rates that are tailored to each application add versatility to its capabilities. Its design for ease of maintenance and the ability to change its throughput rating gives it a long useful life in a rapidly changing industrial environment

- Very Small Size: 25" center line inlet-to-center line outlet for the 10" wide belt and 41" for the 13" wide belt.
- Handles a wide range of materials and densities.
- Sanitary, stainless construction.
- Totally enclosed for effective dust control.
- Easy access, low maintenance design.
- Totally removable scale assembly needs no re-calibration after reinstallation.
- Excellent accuracy and stability.
- Rugged construction-built to survive.





SPECIFICATION MODEL MWF

Feed Rate:

- 10" (245 mm) wide weigh belt up to 25,000 lbs/hr (11,340 kg/hr) with a material bulk density of 50 lbs/ft3 (0.8 gr/cm3).
- 13" (330 mm) wide weigh belt up to 41,500 lbs/hr (18,820 kg/hr) with a material bulk density of 50 lbs/ft3 (0.8 gr/cm3).

Density Range:

15 to 100 lbs/ft³ (0.24 to 1.6 gr/cm³).

Particle Size:

• Up to 0.25" (6.4 mm) - consult factory if particle size exceeds 0.25".

Weight Measurement System:

· Precision strain gauge force transducer.

Speed Measurement System:

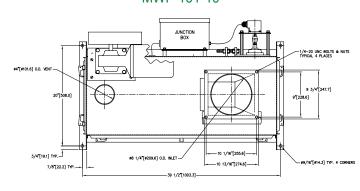
Direct coupled quadrature digital pulse transmitter mounted to tail pulley shaft.

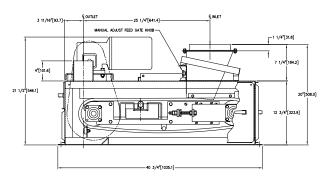
0.25 HP (0.19 kW), 90 volt DC armature, permanent magnet, TENV, 115 VAC. 1ph, 50-60 Hz, continuous duty, Class B insulation or AC Inverter Duty Motor 230-460 VAC, 3 ph, 50-60 Hz volts AC, TENV.

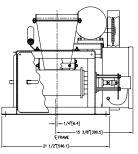
Drive Reducer:

C faced coupled to motor, right angle worm & gear type, service factor 1.5, complies with A.G.M.A. standards.

MWF-101-10







Turndown:

20:1.

Contact Material:

304 Stainless Steel

Option: 316 Stainless Steel.

Non-Contact materials:

- 304 Stainless Steel
- Option: 316 Stainless Steel.

Temperature Limits:

Ambient 32°F-130°F (0°C-54°C). Material: 0°F to 250°F (-18°C -121°C).

Fully enclosed, removable side and end panels gasketed and secured with captive type fasteners, open bottom.

Belt:

Endless two ply polyester carcass with BUNA-N, top cover, raised 5/16" (8 mm) flanges, rated for material temperature up to 250° F (121° C) FDA approved.

Adjustable Bed Depth Gate:

Standard.

Accuracy (Combined Error):

0.25 to 1.0% of set rate (@2 sigma) based on a minimum sample of 1 minute or 2 circuits of the belt, which ever is greater.

THAYER SCALE-HYER INDUSTRIES, INC.