



**BUILT SMART  
BUILT TO SURVIVE**

## **THAYER Automated Test Weight Lifter for “MXL” Weigh Belts**

### **CALIBRATION is fast, accurate and reliable**

The Thayer Scale test weight calibration method has proven accurate and reliable over decades of in-plant use. Unlike material sampling, it is always clean, fast and safe. Unlike electronic signal simulation, it actually tests the performance of critical electro-mechanical components under the full deflection range of the load cell. The THAYER Automated Test Weight Lifter now makes calibration even easier and more exact:

### **Other Methods of Calibration :**

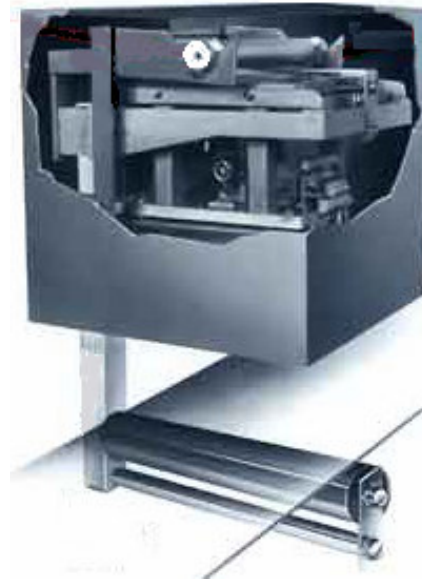
- Electronic signal Simulation: Fast, but does not apply load to scale.
- Test Chain: Difficult to use, storage can be a problem, time consuming, susceptible to wear, prone to accidents.
- Material Test: Most comprehensive, but very time consuming. Accuracy of calibration is subject to accuracy of sampling method and accuracy of scale used to weigh samples.

### **Thayer Scale’s ATWL Features:**

- Auto zero calibration check.
- Auto span calibration check.
- Auto adjustment of zero and span errors.
- History of past calibration results stored in instrument for trending and determination of required calibration interval.

### **ATWL Benefits:**

- Self-storing Test Load can not be misplaced.
- Minimizes downtime for calibration checks.
- Eliminates risk of injury to personnel.
- Assures that correct test load is always applied.
- Precisely controls positioning of test load on scale.
- Permits full calibration from remote location.
- Permits verification of active measurement range.



## **Thayer Scale-Hyer Industries, Inc.**

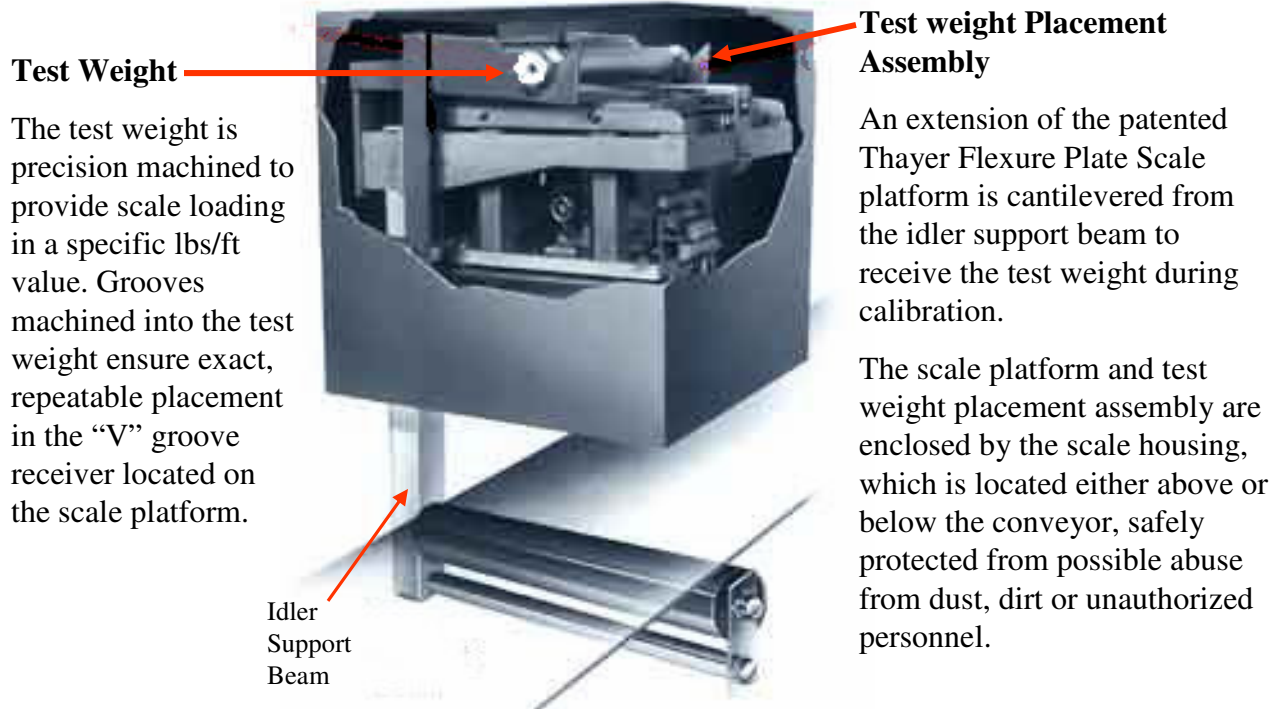
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## THAYER Automated Test Weight Lifter For MXL Weight Belts

**Zero and Span calibration checks performed in less than a minute using actual test load, from remote location, without manual operator intervention.**



A simple, rugged mechanism holds the test weight above the scale platform during normal feeder operation. Upon demand from the controlling instrumentation, the mechanism lowers the test weight from the storage position onto the scale platform via a linear screw type drive motor or pneumatic cylinder. For operator supervised calibration, the operator only touches the YES/NO pushbuttons on the instrument, which can be placed in a remote location. For automatic calibration, the Thayer instrumentation is linked to a host computer or PLC, thereby eliminating the need for operator involvement.

Error findings are automatically logged into the instrument memory and can be retrieved by the operator at anytime to review past calibration results.

Any improper condition that could invalidate calibration results is detected by the instrumentation, which halts calibration and delivers an alarm message and diagnosis of the problem to the operator. Calibration has never been faster, easier or more reliable.

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