



Case Study:

Alternative Grain/Meal Truck Load-Out



Customer

G.A. Wintzer and Son Company

Web Site

www.gawintzer.com

Location

Wapakoneta, Ohio

Industry

Producer of various Protein Meals,
Feeding Fats & Oils.

Customer Profile

G.A. Wintzer is a full service company that recycles animal by-products and used cooking oil and produces and manufactures quality animal feed and bio-fuel ingredients.

Highlights

- Cut logistic costs
- Streamlined workflow process
- Improved fill volumes and accuracy
- Freed up labor resources

The Challenge

G.A. Wintzer identified a problem with the methodology used to load trucks with protein meal. Using screw conveyors and a stopwatch, their system had only basic functionality and would often miss the container target weight, forcing the truck to reenter the loading facility after it had been weighed to be either topped off to meet its fill capacity, or worse yet, partially unloaded to meet legal transport weight limits. The existing operational routine resulted in higher than acceptable over and under loading of trucks and was operationally inefficient both in terms of manpower utilization and the cost of discarded product. The company wanted to invest in a new process that would accurately and repeatedly hit container target weights, reduce product waste and eliminate the need for the truck and its cargo to be handled a second time.

The Solution

GA Wintzer and their scale service provider, Worthington Scale, approached Thayer Scale and asked about the use of a weigh belt to totalize and batch the correct amount of product into their containers and trucks. "We wanted a simple system that provided a place for the operators to enter the required batch amount, press a start button and then deliver the product accurately and consistently" (Andy Walters V.P of Operations). Thayer Scale built a weighing device that replaced a horizontal screw conveyor and fit into place with a minimum of extra work or modifications to the existing structure or operational and control logic.

The Benefits

"Cut Logistics Costs" Thayer's weighbelt had a huge impact on the truck loading process. It accurately and repeatedly hits the container target weights within a range of ± 0.25 - $\pm 0.5\%$. This saved transportation costs by optimizing fill efficiency, eliminating transportation fines by no longer exceeding legal weight limits and reduced labor costs by freeing up the human resources required for second handling of the truck containers. G.A. Wintzer can now efficiently and effectively load trucks, eliminate excessive handling of the truck and cargo and accurately predict container fill time's instead of approximating it.

Thayer Scale, Hyer Industries Inc.
91 Schoosett Street, Pembroke, MA 02359



Original Load-Out Screw Conveyor



Thayer Weigh Belt in Place of Screw Conveyor

"I can say our new truck load out system with the Thayer Scale weighbelt has met our expectations. Thayer Scales' knowledge of our process need and the application allowed us to put together a system we can rely on."

*Andy Walters V.P. Operations
G.A. Wintzer & Son, Company*

Who We Are

About Thayer Scale

Established in 1949, Thayer Scale was built on a foundation of deep industrial expertise. We developed a culture of collaboration enabling us to create enduring value for our clients, worldwide. From mining to food and everything in between our products are essential pieces of the process.

- Serving Customers Since 1949
- Built to Survive
- Accurate, Repeatable and Reliable
- Easy Operation/Low Maintenance
- 88 registered patents and trade marks
- Force Measurement Suspension System
- Tare Balancing of Systems Dead Loads
- High Load Cell Utilization Factors
- Virtual Weigh Span
- Scale Location Compensation

Products

- Gravimetric and Volumetric Feeders
- Batch and Continuous Feed Operation
- High Accuracy and NTEP Belt Scales
- Light Loading/Low Density Weighbelts
- Heavy Industry Weighbelts
- Loss In Weight Feeders
- Material Flow Aids
- Instrumentation and Controls

"We attribute our long term success to a particular philosophy that keeps us on a highly focused path. Our Company will only produce continuous weighing and feeding equipment that we feel can provide sustained accuracy levels well within 1% without requiring frequent attention to calibration and other "fine tuning" adjustments."

Frank Hyer, CEO and Owner

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