

Pivoted Weigh Screw

Feeders & Conveyors



Best Solution for Dusty or Hazardous Products

Dynamic Weighing Specialists

Solutions for weighing materials on the move

Malt outloading into container at 100tph



Engineered for Accuracy

Design is critical to achieving the desired accuracy for each application. Screw diameter and speed are engineered to provide the correct material loading for the greatest accuracy. Achievable accuracy in each situation depends upon the characteristics of the product and the application.

The design approach uses a constant weight model to ensure the highest possible accuracy over the complete operating range.

Key design parameters:

- Flow Rate
- Speed
- Bulk Density

Balanced with the physical screw parameters:

- Diameter
- Pitch
- Fill Capacity

Typical Accuracy

Free Flowing Products - typically less than $\pm 1\%$
e.g. Canola & Malt*

* Note: Malt out loading has been tested and proved at better than $\pm 0.5\%$

Non Free Flowing Products typically ± 1 to 2%
e.g. Flour (powdery products)

Difficult Products - typically ± 2 to 3%
e.g. Cement

Note: Cement is difficult to feed, however if good flow control is established $\pm 1\%$ can be achieved

Screw Conveyor Display MD1 with MW95A P Module



Screw Feeder Display MD1 with MW96A P Module



Pivoted Weigh Screw Controller

Controller Spec:

- MD1 Display
- MW95A P Module (Screw Conveyor - Monitor only)
- MW96A P Module (Screw Feed - Rate control)
- MT6F Transmitter

Controllers standard features

- Pulse Output
- 4-20mA Flow Rate Retransmission
- Fully Automatic Zeroing
- Programmable Limit Outputs

Featuring compact design and a totally enclosed product stream, Active Weighing Solutions Pivoted Weigh Screw Feeders and Conveyors are particularly suited to dusty and hazardous product applications where accuracy is important.

Applications

- Monitoring
- Flow Rate Control
- Bulk Out Loading

Features

- Low Profile
- Fully Enclosed Product Stream



Pivoted Weigh Screw Conveyor- Cement application

Diagnostic Capability

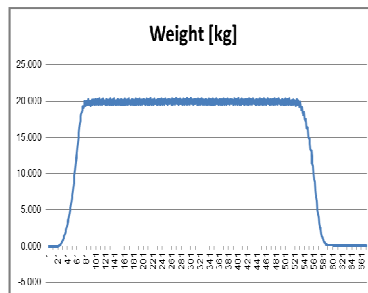
The controller has a diagnostic output that can be used to capture data directly into laptop to allow analysis of data.



Pivoted Weigh Screw Feeder- Hydrated Lime application

Typical Weight Distribution

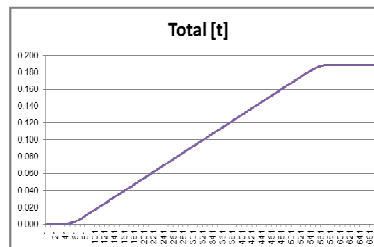
The graph shows a constant weight distribution in the screw indicating consistent feed



Pivoted Weigh Screw Conveyor- Malt Bulk Outloading application

Typical Totalisation Curve

The graph shows uniform product delivery.



Typical Flow Rates

Each application is designed to meet customer requirements.

e.g.

Malt	100tph
Hydrated Lime	6 tph
Cement	25tph

FOR SPECIFIC APPLICATIONS CONTACT ACTIVE WEIGHING SOLUTIONS OR OUR REPRESENTATIVE.
Active Weighing Solutions is continually improving the design of its products and reserves the right to make alterations without prior notification.



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