

MUS Belt Scale

For Affordable Quality



 **MILLTRONICS**
Mass Dynamics Division

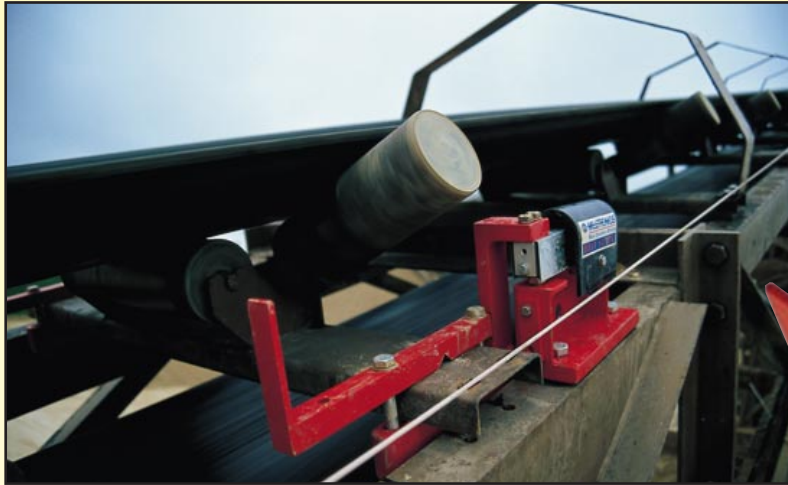


Accuracy and Reliability at an Affordable Price

The Milltronics Universal Belt Scale (MUS) is ideally suited for operation with such diverse products as aggregates, sand or minerals requiring continuous weighing at a minimal cost. Elimination of cross bridges allows for universal fit on all conveyor widths and reduces build-up areas.

Field Proven Technology

The MUS uses the same field proven technology that makes our patented belt scales the preferred choice in thousands of tough applications worldwide. Milltronics' belt scales operate successfully in primary and secondary industries from mines and quarries to glass, chemicals and food processing.



Unique Modular Design

The key to the accuracy of the MUS weighframe is its unique platform strain gauge load cell used in conjunction with a twin independent weigh beam suspension system. This design has proven its reliability, accuracy and durability in the most demanding industrial applications. Its independent weigh beam design provides for installation on portable conveyors with no loss of accuracy.

The modular construction and easy assembly of the MUS ensure quick delivery to meet even the tightest schedules.

Simple Installation

The weighframe installs easily between idlers that are as little as 500mm (20 inches) apart. Since it is mounted above the stringers, installation requires no modification to existing equipment.

With its unique mounting bracket, the MUS works with virtually all standard troughing idlers, picking idlers or flat idlers. Special idler configurations are available.



How It Works

The MUS consists of four components: two load cell mounting brackets, a trailing arm speed sensor and an integrator which processes the signal from the belt scale.

The load cells react to vertical forces giving an accurate weight signal while belt speed is monitored by the trailing arm speed sensor mounted to the weigh frame.

Both weight and speed signals are electronically processed by the integrator to give an accurate readout of flow rate and totalized material weight.

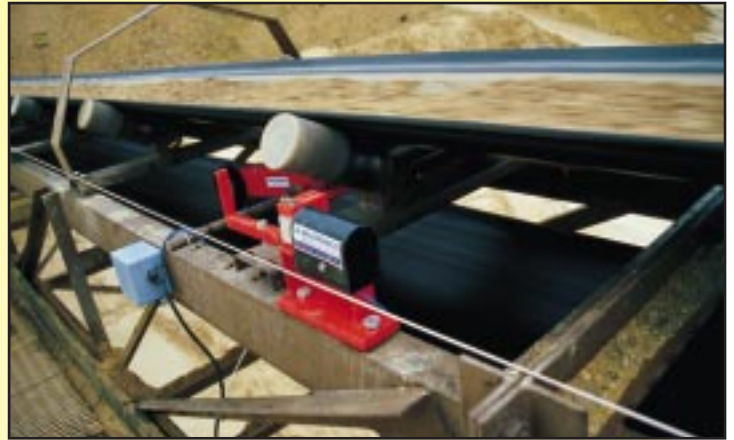
True Versatility

Whatever your application or need, the MUS is the most versatile conveyor weighing system on the market.

It is easily adapted to all types of conveyors. Applications include truss and channel frame, slider bed and even rabbit ear conveyors. Standard construction includes mild or stainless steel.

In applications where scales are moved from conveyor to conveyor, the MUS provides flexibility unmatched by competitive products.

It is also ideal for retrofits of old mechanical scales. Applications include aggregate, mining, pulp and paper, chemical processing, coal, utilities, and more.



Flexible Integrator Options

Milltronics' belt scales operate in conjunction with one of a series of micro-processor based integrators which provide the information you require. These integrators indicate flow rate, total weight, belt load

and speed of bulk solids material on easy-to-read displays. Options include the provision of a bar graph indicating percentage of rate, enabling an operator to assess production against target at a glance. Other integrators are capable of handling six to eight load cell inputs. We will help you make the choice of integrator to meet your specific needs.

Milltronics' integrators feature push button calibration and operation, with automatic calibration through keypad data entry. Access protection to safeguard calibration is standard on all integrators, with memory protection giving extra data security. Data is displayed in standard engineering units.



Speed Sensors

Used in conjunction with the MUS, the speed sensor monitors conveyor belt speed for input to the integrator. The output signal is transmitted by cable connection to the integrator in order to accurately compute the rate of material being conveyed. Milltronics offers the following speed sensor options:



Return belt speed sensor

Rotary Pulse Generator

This mounts directly to the tail or bend pulley shaft. Housed in a rugged weatherproof enclosure, it provides accurate and reliable results, being immune to false signals generated by either the conveyor or external vibrations.

Return Belt Speed Sensor (RBSS)

Easily installed, this provides a signal generated from the wheel on the sensor as it rotates on the return belt.

While a speed sensor is recommended, it is not essential when belt speed is constant.

Specifications

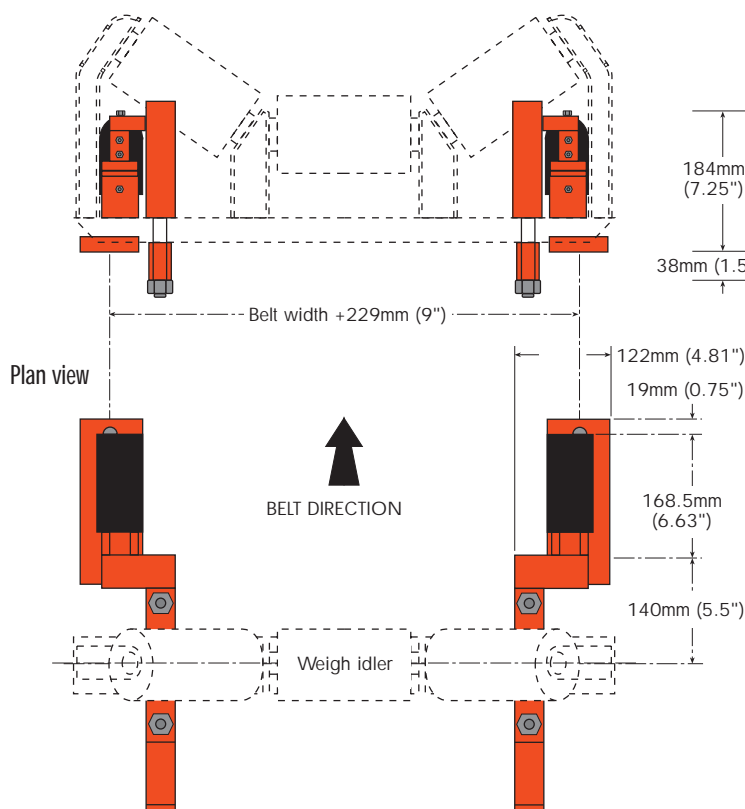
Accuracy	± 0.5% to 1.0% of totalized weight over a range of 0.3 to 1.0 of design capacity on an approved installation.	Overload Protection	Mechanical stop.
Size	Any conveyor width.	Calibration	Via static test weights (supplied), test chains (optional), or material tests.
Mounting Bracket	Adapts to any CEMA standard idler without modification.	Load Cells	Platform strain gauge (two) Aluminum construction.
Weigh Bridge Construction	Mild steel. Painted, zinc plated or galvanized. Optional: Stainless steel.	Operating Temperature	-35°C to 60°C (-30°F to 140°F)

Our continuous programme to improve our products may result in changes to design and specification without notice.

MUS Dimensions

Front elevation

Side elevation



Shipping weight 140 lbs. (64 kg) maximum. Standard components include belt weigh bridge, speed sensor, test weight (1), integrator and packaging.



Y2K Compliant - Year 2000 Compliant

Mass Dynamics is dedicated to the sales and development of continuous weighing and motion sensing instrumentation. Launched in 1997 as a new business division of Milltronics Ltd., Mass Dynamics offers a range of belt scales, solids flowmeters, weighfeeders, acoustic sensors and motion sensing equipment. Designed to withstand the sustained rigours of heavy primary industries, these products have proven their reliability in a wide range of harsh applications including the mining, mineral processing and cement industries. They are also used extensively in wet and dry food processing and petrochemicals.



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