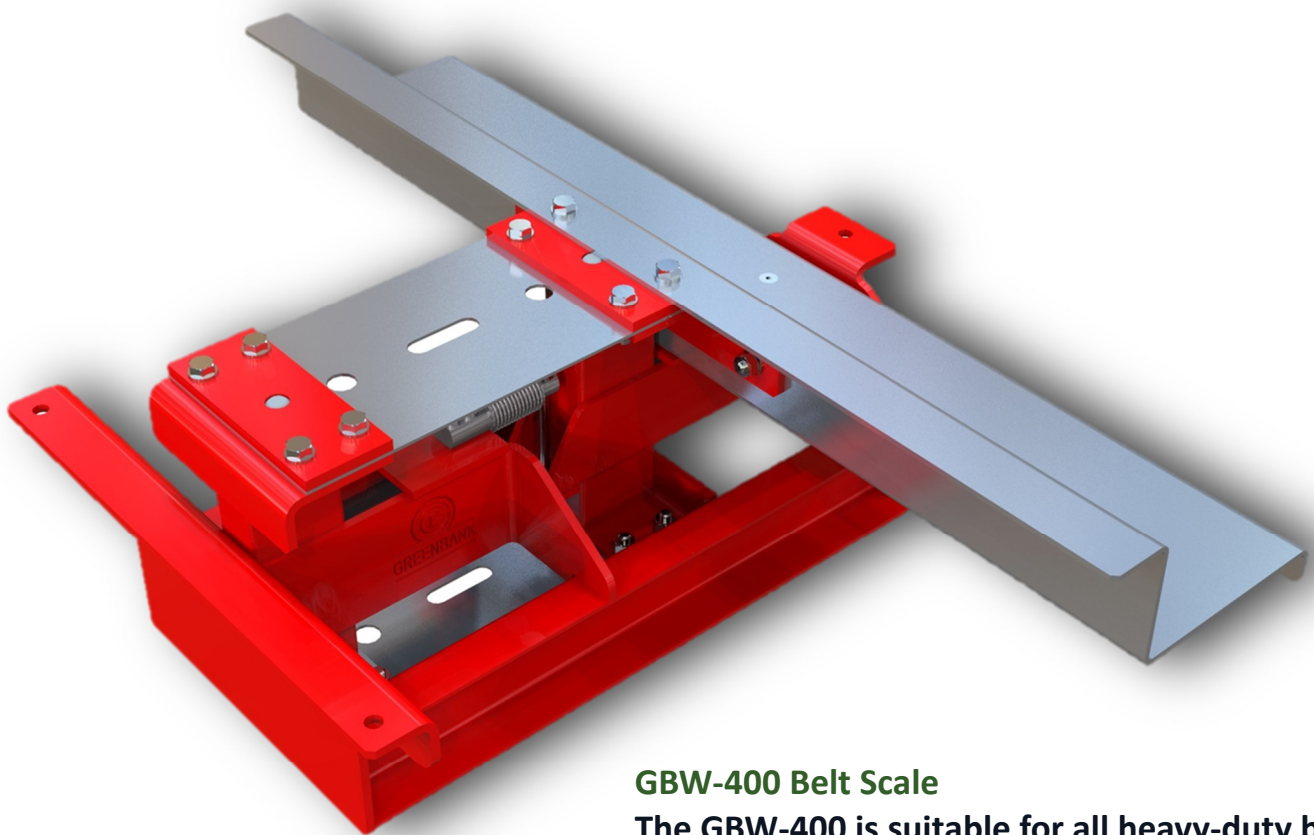


Greenbank GBW-400®

Belt Scale

Advanced Single Idler, Heavy Duty Belt-Weigher



GBW-400 Belt Scale

The GBW-400 is suitable for all heavy-duty belt weighing applications. The unit is proven in tough applications including quarries, mines, power plants, iron & steel, chemicals and food processing.

Greenbank Group UK

Incorporating:
Greenbank Terotech
Greenbank Materials Handling
GAIM



www.greenbankgroup.com

GENERAL SPECIFICATION

Installation

The GBW-400 is the most advanced single idler weigh module available. The GBW-400 is suitable for all heavy-duty belt weighing applications on a variety of materials and across industries. The unit is proven in tough applications including quarries, mines, power plants, iron & steel, chemicals and food processing. An adapter mounting plate is provided for the use of customers' commercial idler sets thus helping to reduce costs by using existing idler sets.

Reliable

The GBW-400 is a high spec maintenance free design with a parallelogram weigh frame, eliminating the need for bearings and pivots. It is very effective for dynamic in-line weighing applications.

Calibration

Calibration is simple and straightforward, and can be carried out using material, test chains, or test weights. Greenbank are able to supply either a service contract using our own certified weights (tested annually by a local weights and measures authority), or we can provide test weights with certificates for our customers to perform their own calibrations.

Accuracy

Greenbank can offer an accuracy of $\pm 0.5\%$ of the totalised load over a 5:1 range for a single idler system. With up to four systems used serially, this accuracy can be improved to $\pm 0.25\%$ on rates up to 10,000 tph, putting it on a par with all of our competitors.

The GBW-400's unique weigh frame design ensures unrivalled accuracy and repeatability of 0.5% accuracy based on a totalised weight over a 20-100% design capacity.

Repeatable

The innovative parallelogram suspension is not influenced by off-centre belt loading or belt tracking, resulting in excellent weighing accuracy.

Installation

The modular belt scale can be installed into any type of conveyor where space is restricted. The weigh frame or conveyor idler can be adjusted without the need for any special tools. Installation is quick and easy, taking only a few hours to complete using bespoke mounting beams.

GBWI-436 Controller

Panel or wall mounted options are available. Wall mounting panels can be mild steel or stainless steel if required. The GBWI-436 controller has a user-friendly operator interface with a simple push-button keypad and is perfectly matched with all Greenbank weigh frame options.

Features:

- ◆ Provides rate and total information while controlling the flow rate of material into a process.
- ◆ Both resettable and non-resettable totals.
- ◆ Choice of kilograms/hour or tonnes/hour feed rate control and display.
- ◆ Serial communications and analogue input options.
- ◆ Out-of-tolerance and Control Limit alarms.

Technical Data: GBW-400

Belt Width:

Up to 1800mm.

Accuracy:

$\pm 0.5\%$ of totalised weight over a 5:1 range of design capacity on an approved installation. Up to 4 weigh frames mounted in series will improve accuracy to $\pm 0.25\%$

Calibration:

Via material, test weights, or test chains (optional).

Overload Protection:

Infinite mechanical stop.

Load Cell:

High precision shear beam load cell is temperature compensated and hermetically sealed.

Speed Sensor:

Digital shaft encoder GWE-50 wheel mounted assembly or GSE-50 digital shaft encoder mounted on return bend pulley or tail drum.

Weigh Module:

Mild steel with rust-resistant primer and powder coated finish. Stainless steel option available

Weigh Module Mounting Beams:

Mild steel painted with rust-resistant primer and powder coated finish, pre-drilled for mounting the weigh module to the conveyor stringers.

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