

WTMS1 Conveyor Belt Scale



The model “WTMS1” is one of Web Tech AutoWeigh’s “Process” type conveyor belt scales, and is suitable for applications including the control of feed rates from bins, monitoring plant performance, or maintaining consistent belt loading. The model “WTMS1” is designed to suit suspended type idlers used in mine structure type conveyors. Accuracies in the order of $\pm 1.0\%$ are achievable.

Weigh Frame

Web Tech AutoWeigh model “WTMS1” single idler, fully suspended weigh frame has been specifically designed to suit “suspended” type idlers, used in mine structure type conveyors. Standard idlers are modified to weigh quality standards, and are suspended by a dual load cell weigh frame. As there are many types of mine structure and idlers available, the model “WTMS1” weigh frames are specifically built to suit the application. Available to suit virtually all belt widths, the weigh frame can be supplied in either mild steel galvanised, or stainless steel construction.

Electronics

The “WTMS1” belt scale system is normally supplied with our “MasterWeigh 6” electronics. The “MasterWeigh 6” electronics is a microprocessor based integrator and comes with the following standard features:

- Microprocessor based.
- 110/240VAC or 24VDC supply (optional).
- IP66 reinforced polyester enclosure.
- Modular in design – easily serviceable.
- Simple menu driven interface.
- Integral keypad with calibration “Hotkeys”.
- 2 x 40 character backlit LCD display.
- All commands in simple English – No hieroglyphics or codes used.
- 8 digit Mass Rate display.
- 8 digit Mass Total display.
- Isolated 4-20mA Rate output.
- Remote Totaliser output.
- “Weigher Healthy” relay output.
- Programmable “Auto Zero Tracking” function with “Out of Limits” relay output.
- Service menus allow load cell and speed sensor values to be read without the need for test meters.
- Automatic Zero & Span calibrations.
- Optional “Profibus”, or “Device Net” or “Ethernet/Modbus TCP”



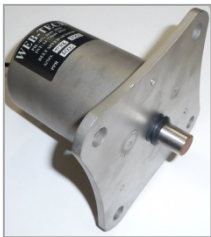
“Masterweigh 6” in standard IP66 RFP Enclosure



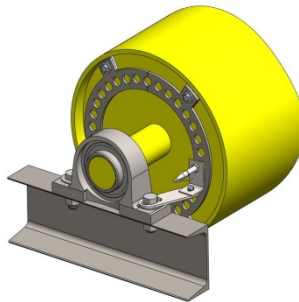
“Masterweigh 6” in optional Stainless Steel Enclosure

Belt Speed Sensors

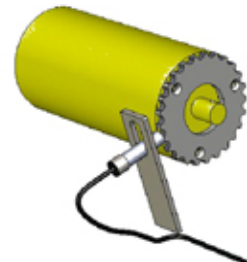
This belt scale is available with a number of different standard types of belt speed sensors to suit the application.



Stainless steel digital encoder



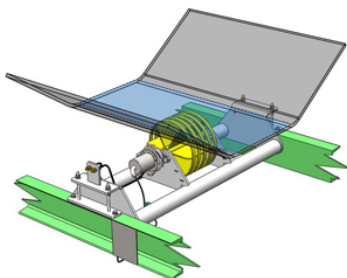
Proximity switch and flags on tail pulley



Magnetic Pick-up and sprocket on roll

Options

All other options available



Optional Spiral Pulley and mounting frame



Stainless steel sunshade for electronics



Calibration Chains