Conveyor Belt Scale Product Guide

The Web-Tech AutoWeigh range of Conveyor Belt Scales is the largest available selection in the Asia Pacific region.
We can offer price competitive Belt Scales for all applications and budgets.

- Australian made
- Australian made idlers, for time sensitive delivery
- Fully galvanized
- Various speed sensing options
- Alternative methods of calibration

Optional accessories include:

- Communication protocols
- Sunshades
- Inclinometers
- Stainless enclosures
- Stainless Steel weigh frames
- Painting to specification

Conveyor Belt Scale Range Of Products

Model	Description	Typical Applications	Accuracy
WTE40-Sanki	Universal type scale, 2 load cells, simple installation	Aggregate plants, feeder control	± 1 - 5 %
WT1	1 idler, 2 load cells, low cost Belt widths: 450 - 1200 mm	Aggregate plants, process control	± 1 - 3 %
WTE1	1 idler, 4 load cells, light weight, fully suspended weigh frame Belt widths: 450 - 1200 mm	Low belt loadings, low bulk density	± 1 %
WTE2	2 idlers, 4 load cells, light weight, fully suspended weigh frame Belt widths: 450 - 1200 mm	Low belt loadings, low bulk density	± 0.5 – 1.0 %
WTS1	1 idler, 4 load cells, fully suspended, heavy duty Belt widths: 450 - 2400 mm	Mining applications	± 1 %
WTS2	2 idlers, 4 load cells, fully suspended, heavy duty Belt widths: 450 - 2400 mm	Mining applications	± 0.5 %
WTS4	4 idlers, 4 load cells, fully suspended, heavy duty Belt widths: 450 - 2400 mm	High accuracy loadouts, material transfers	± 0.25 - 0.5 %
WTS6	6 idlers, 4 load cells, fully suspended, heavy duty Belt widths: 450 - 2400 mm	High accuracy product transfers, high belt tension areas	± 0.1 - 0.25 %
WTS8	8 idlers, 8 load cells, heavy duty Belt widths: Up to 2400 mm,	High accuracy, high belt tension areas	± 0.1 - 0.25 %
WTE11 (E400)	1 idler, 1 load cell, process scale with mechanical tare Belt widths: Up to 1050 mm	Aggregate, timber, gold ore plants	± 1 - 3 %
WTE12 (E800)	1 idler, 2 load cells, mechanical tare Belt widths: 450 - 1600 mm	Aggregate, timber, gold ore plants	± 1 - 3 %
WTE21 (E2400)	2 idlers, 1 load cell, mechanical tare Belt widths: 450 - 1050 mm	Aggregate, timber, gold ore plants	± 0.5 – 1.0 %
WTE22 (E2800)	2 idlers, 2 load cells, process scale with mechanical tare Belt widths: 450 - 1600 mm	Aggregate, timber, gold ore plants	± 0.5 - 1.0 %

Conveyor Belt Scales

WT1: *Process* Belt Scale

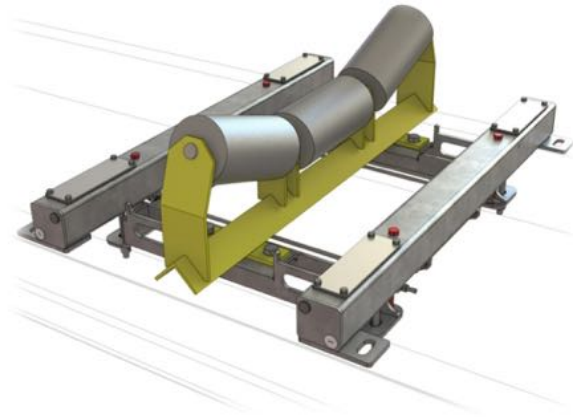
- Low cost, easy installation
- Two (2) load cells
- Use existing idler, (easily attached)
- Trailing arm, speed sensor, integrator and junction boxes included
- Belt widths: 450 - 1200mm

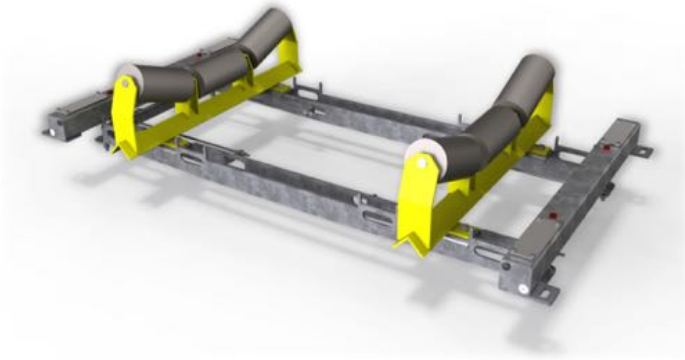
Accuracy: ± 1 - 3 %*

WTE1: Low Belt Loading ***Process*** Scale

- Single idler, suspended, lightweight
- Four (4) internally mounted load cells
- Speed sensor, integrator and junction boxes included
- Belt widths: 450 - 1200mm

Accuracy: ± 1.0 %*





WTE2: *Inventory* Belt Scale

- Low belt loading, lightweight
- Dual idler, fully suspended
- Weigh quality idlers may be required
- Four (4) load cells
- Speed sensor, integrator and junction boxes included
- Belt widths: 450 - 1200mm

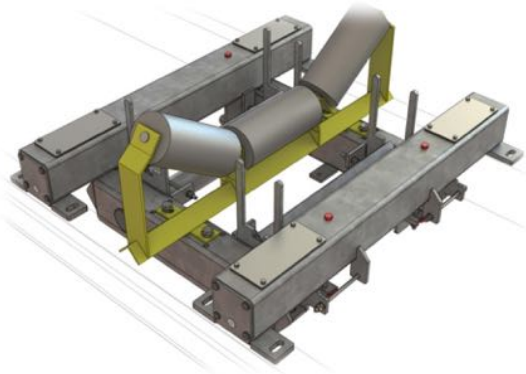
Accuracy: ± 1.0 %*

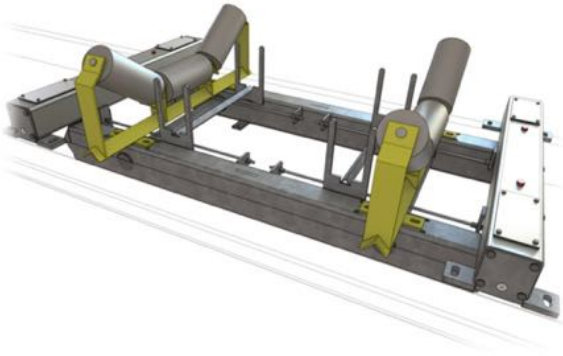
Conveyor Belt Scales

WTS1: *Process* Belt Scale

- Single idler, fully suspended, heavy duty
- Weigh quality idlers usually required
- Four (4) internally mounted load cells
- Supplied with speed sensor, integrator and junction boxes
- Belt widths: 450 - 2400mm

Accuracy: ± 1.0 %*





WTS2: *Inventory* Belt Scale

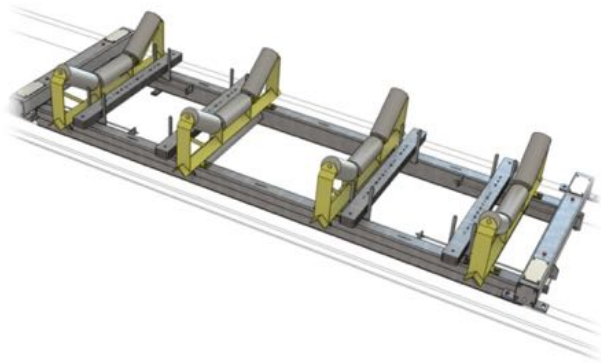
- Heavy duty, dual idler, fully suspended
- Weigh quality idlers usually required
- Four (4) load cells
- Supplied with speed sensor, integrator and junction boxes
- Belt widths: 450 - 2400mm.

Accuracy: ± 0.5 %*

WTS4: *Precision* Belt Scale Designed for Heavy Duty Belt loadings:

- Four (4) idler, fully suspended, heavy duty
- Weigh quality idlers required
- Idler spacings of 1000 mm, 1200 mm and 1500 mm
- Four (4) load cells
- Supplied with speed sensor, integrator and junction boxes
- Belt widths: 450 - 2400mm

Accuracy: ± 0.25 %*



WTS6: *Precision* Heavy Duty Belt Scale

- Six idler, fully suspended
- Weigh quality idlers required
- Idler spacings of 1000 mm, 1200 mm and 1500 mm
- Four (4) internally mounted load cells
- Supplied with speed sensor, integrator and junction boxes
- Belt widths: 450 - 2400 mm

Accuracy: ± 0.25 %*

WTS4HD: *Precision* Extremely Heavy Duty Belt Scale

- Four idler, fully suspended,
- Weigh quality idlers required
- Idler spacings of 1000 mm, 1200 mm and 1500 mm
- Four (4) internally mounted load cells
- Supplied with speed sensor, integrator and junction boxes
- Belt widths: 450 - 2400 mm

Accuracy: ± 0.25 %*

WTS8: *Precision* Belt Scale, Heavy Duty Belt Loadings

- Eight idler, fully suspended, heavy duty
- Weigh quality idlers required
- Idler spacings of 1000 mm, 1200 mm and 1500 mm
- Eight (8) load cells
- Belt widths: 450 - 2400 mm

Accuracy: ± 0.25%*

WTSM1: Special ***Process*** Belt Scale

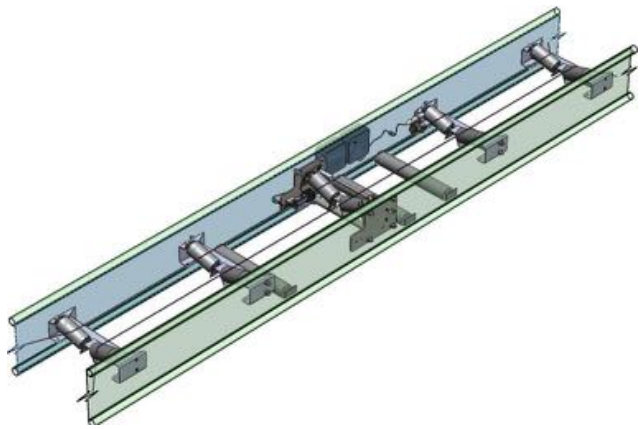
Designed for suspended type idlers used in mine structure type conveyors.

- Two (2) load cells
- Specially modified weigh quality idlers
- Weigh frames are built to suit the application

Accuracy: ± 1.0 %*

"Sanki" Modular Belt Scales

WTE "Sanki"
A Belt scale designed to fit into "modular" type conveyors.

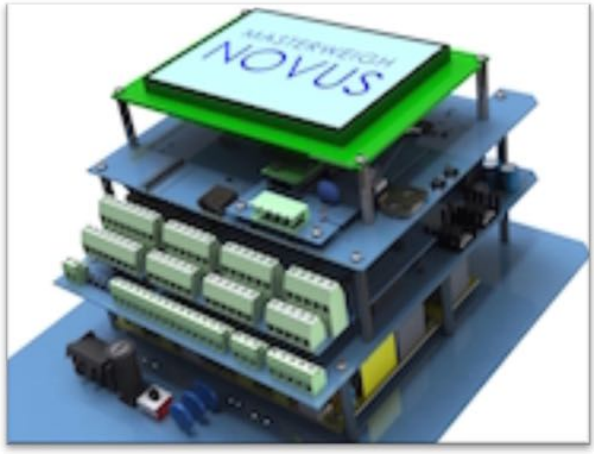


Turnkey Conveyor/Belt Scale Applications
Web-Tech AutoWeigh can design and manufacture the complete weigh conveyor and belt scale combination.

Belt Scale Integrator: *Novus*

Modular design, easy to use and field serviceable.

- Designed and made in Australia
- Use with all brands of Conveyor Belt Scales, and other dynamic weighing systems
- Plug-in expansion cards and fieldbus communication options
- Easy replacement and upgrade
- In built 110/240 vac. power supply
- Standard IP66/Nema 4X enclosure



Standard Model Features:

- 1x 4-20 mA Rate Output
- 2x Solid State Relays
- Remote Totaliser
- 3x Optical Isolated Digital Input
- 1x Speed Sensor Input
- 1x Load Cell A/D Channel
- 1x AUX 24VDC Power Supply
- USB slot, SD Card slot

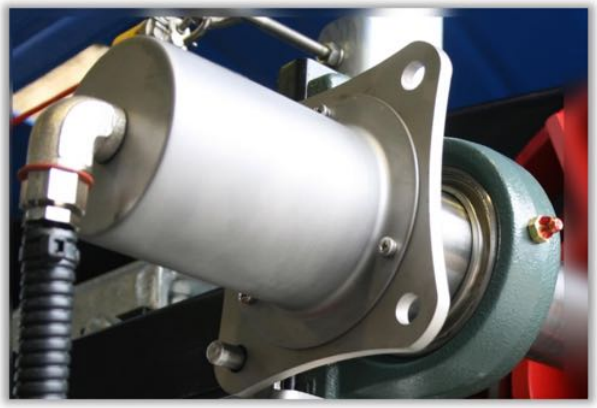
Available options include:

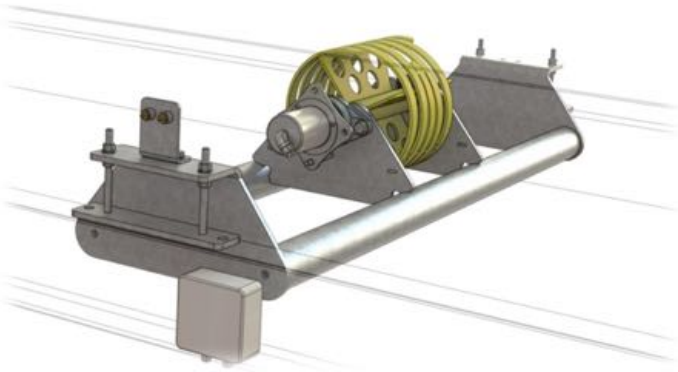
- DeviceNet, Ethernet TCP (Modbus), TCP/IP and Profibus
- 12/24/48 VDC power supplies
- 316 stainless steel enclosure
- Sloping roof enclosure
- Stainless Steel or polyester sunshade
- DIP enclosure
- Intrinsic safety barriers

Speed sensor Options:

Our range of speed sensors/encoders accommodates most applications and belt scale brands.

- Stainless steel rotary shaft encoders
- Trailing arm sensors incorporating digital encoders

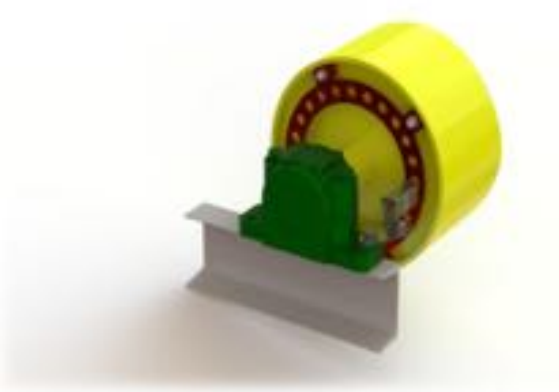




- Speed sensor spiral pulleys for belt scales incorporating digital encoders, or proximity switch sensors
- Suitable to upgrade most brands

Magnetic pick-up sensors

Proximity switch sensors



Calibration Equipment

A range of calibration solutions are available:

- In-situ weights
- Billet weights
- Under slung weights
- Calibration chains
- Calibration trains
- Calibration bars

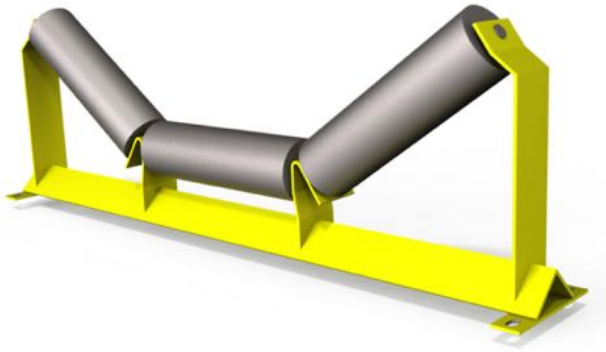
(Retrofits also available for most other Belt Scales and brands)

In-Situ Weights

Billet Weights

Calibration Chain

Conveyor Idlers



Inline weigh quality idlers are used in high speed, higher accuracy belt scale applications.
Inline idlers are custom built to suit the application, with balanced rolls to reduce vibration & jacking screws (optional cam adjustment) to assist with onsite levelling.

For customers requiring shorter lead times, Web-Tech manufactures weigh quality precision idlers frames for all belt widths and troughing angles.

- Galvanized
- Painted to specification
- Stainless Steel

Idlers are also available from other suppliers.

The amount of weigh quality idlers required depends on accuracy and the selected belt scale model.

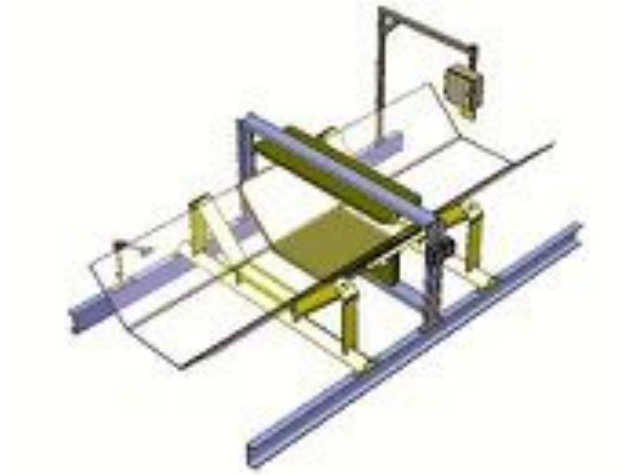
Two sets each of weigh quality idlers are used in the approach and retreat to the weigh area.

Metal Detector MDX-1

On many sites where Conveyor Belt Scales are located, Metal Detectors are required for the detection of tramp metal.

Manufactured in house, each **system comprises of:**

- Generator coil
- Receiver coil
- Electronic controller
- Junction boxes
- Support structure



Metal Detector Controller

Standard features:

- Outputs to activate the marker
- Outputs to stop the conveyor or operate an electro-magnet
- In-built power supply
- Backlit LCD display
- IP66 reinforced polyester enclosure
- Dual pulsed eddy current technology

Metal Detector Options

Metal Detector Marker Systems:

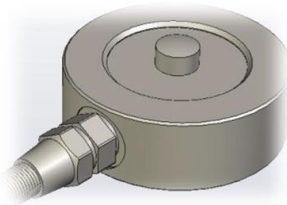
- Flag Markers
- Spray Type Markers
- Belt Splice Detectors
- Sunshades*
- Stainless Steel Enclosures*

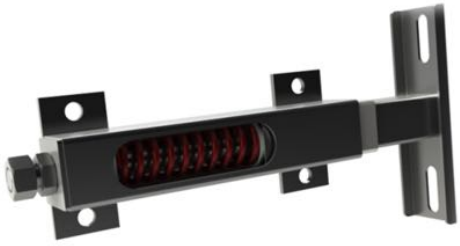
**Refer to belt scale options*

Web-Tech AutoWeigh can also supply other associated products:

- Weigh Belt Feeders
- Weigh Conveyors
- Screw Conveyors
- Conveyor Idlers
- Loss-In-Weight Feeders
- Volumetric Screw Feeders
- Volumetric Vibratory Feeders
- Check Weighing
- Batch Weighing
- Bulk Bag Unloaders

- Weight Indicators and Controllers
- Industrial Speed Sensors
- Metal Detectors
- Load Cells and Strain Gauges
- Bin Weighing and Level Systems
- ***Telescoper*** Conveyor Take Ups
- Industrial Scales and Bench Scales





- Aviation Scales and Rail Scales
- Static Weighing
- Test Weights and Laboratory Scales
- Equipment Retro Fits
- Custom solutions
- Material testing, equipment repairs
- Onsite service and commissioning

Accuracies stated are based on the application it was intended for, and could vary due to material, environmental and operating conditions.