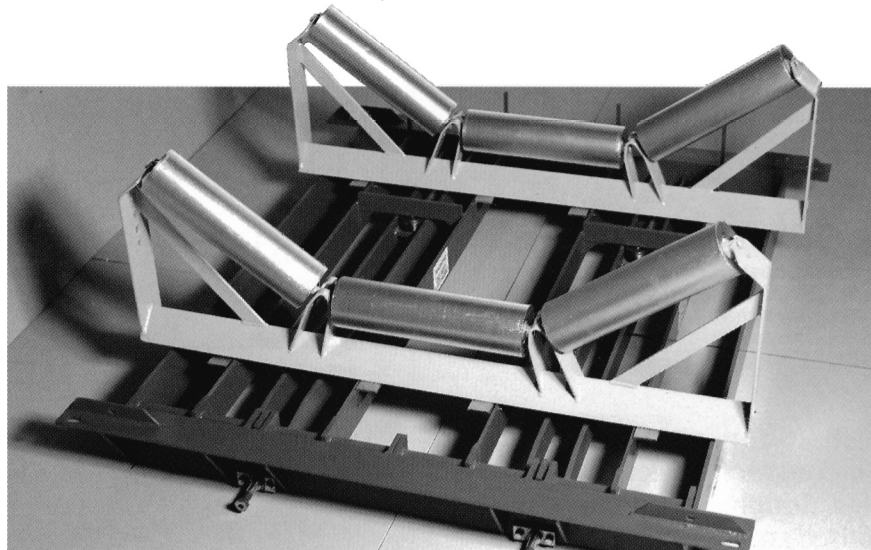




Model WTE22 Conveyor Belt Scale

Dual Idler, Dual Load-Cell

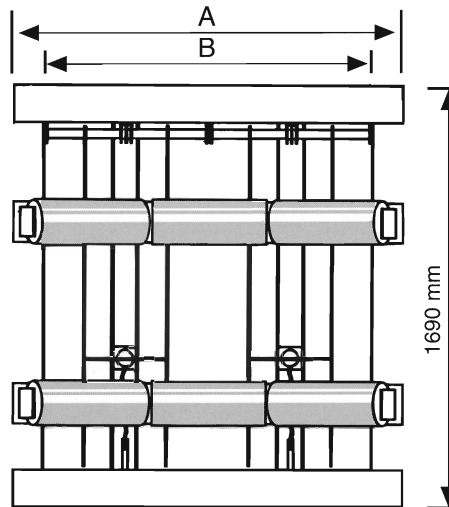
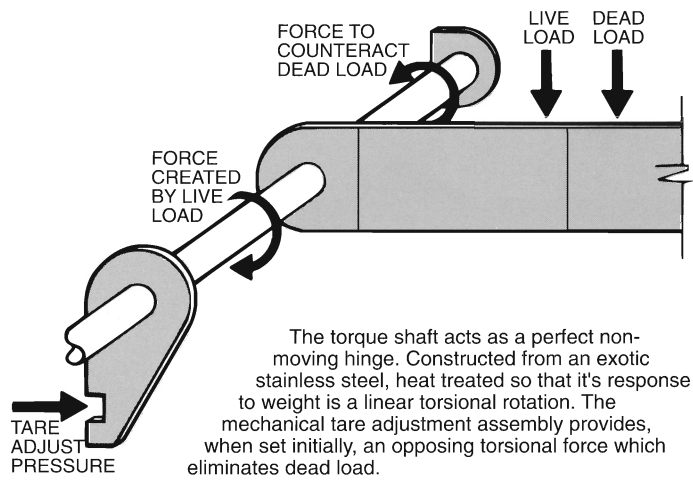


Weighframe Features

- Dual idler weighframe providing increased weighing area and longer transit time for the product to be weighed.
- Dual load cells eliminate possible weighbridge twisting and ensures perfectly vertical force on the load cells. This design effectively counteracts both errors generated by off-centre loading on wide belts and large lump sizes.
- Suitable for use on conveyors with belt widths up to 2200 mm. (Consult factory for applications where belt width exceeds 2200 mm).
- Guaranteed accuracies of +/- 0.5% or better, over an operating range of 25 to 120% of design capacity*.
- Easy installation.
- Torque shaft suspension allows the dead load to be mechanically tared out thus allowing the electronics to operate over the entire range of the load cells.
- Torque shaft suspension provides instantaneous sensing of load variation.
- Torque shaft suspension eliminates knife edges, bearings, trunions, wearpoints and stiction.
- Torque shaft suspension whilst infinitely responsive to vertical load, rejects horizontal loads.
- Narrow profile torque arms to prevent product build-up on live areas of the frame.
- Load sensing by hermetically sealed load cells.
- Manufactured from mild steel and painted with epoxy finish. Galvanised weighframes are optionally available.
- Stainless steel weighframes are available as an option for use in harsh environments.
- Stainless steel incremental encoder or magnetic pickup for accurate belt speed measurement.
- A range of microprocessor based electronic Integrator/Controllers with simple menu driven interface, auto calibration and various outputs for remote indication.
- Weigh quality idler assemblies (as shown) are optionally supplied by Web-Tech for all precision weighing applications.

*On Web-Tech approved installations.

Torque Shaft Articulation



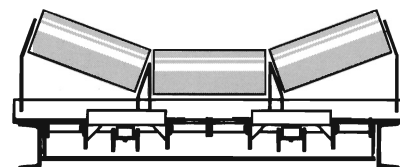
WTE22

BELT WIDTH	A	B
900 mm (36")	1224	990
1050 mm (42")	1374	1142
1200 mm (48")	1524	1296
1350 mm (54")	1724	1448
1400 mm (56")	1774	1498
1500 mm (60")	1874	1600
1600 mm (63")	2074	1700
1800 mm (71")	2274	1900

The use of a torque shaft for articulating the weighbridge provides a consistent fulcrum point. Some other weighbridge designs use knife edges and bearings. These methods of articulation have a history of deterioration due to wear, corrosion, and hysteresis. The torque shaft has proven to be much more consistent over time. Weighing errors will result because of the inconsistent or offset performance of other means of weighbridge articulation. The torque shaft method of weighbridge articulation also eliminates the possibility of required maintenance, as there are no weighbridge components to inspect, maintain or replace.

Mechanical support of the Dead Load

A significant design benefit of the Web-Tech weighbridge system is the incorporation of a micrometer zero and tare adjustment assembly. This assembly provides for a coarse mechanical taring of the dead load weight, i.e. the weight of the steel in the weighbridge, of the idlers and the weight of the belt. Some designs support the dead load weight on the weight transducer and tare this weight electronically. Since this method uses a portion of the transducers capacity or operating range, the transducer must be greatly oversized for the actual weighing requirement. Minimising the



operational range of the transducer results in having to increase the gain applied at the input to the integrator with resultant potential span error.

Web-Tech utilises the full operating range of the transducer. This provides for maximum sensitivity, so that subtle changes in the belt loading caused by the product can easily be detected using the minimum of gain.

Narrow Profile of Weighbridge Structure

Whilst Web-Tech's range of electronic integrators/controllers have an autozero function, the weighbridge has been designed so that live surfaces are very narrow, typically 6 mm to 12 mm. Because of this attention to design detail, users not wishing to activate the autozero function can do so knowing that any zero shift due to product build-up on live areas will be minimal.

Specifications Subject To Change Without Notice.

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