

FULLY FLOATING BELT SCALES PARTS AND ACCESSORIES

SPEED SENSORS

Measure belt travel with minimum slippage. Highly accurate proximity sensors. Spiral cages are self-cleaning. Heavy duty, serviceable bearings (auto greaser optional). Suit belt widths from 600 mm to 2400mm with belt speeds from 0.1 m/s.



INTEGRATORS AND CONTROLLERS

We supply and support SRO, Thermo Ramsey and Siemens. We can also supply and support other makes and models that best suit the belt scale frame, load cell and speed sensor configuration or as nominated by the customer.



COVERS MOST CONFIGURATIONS

WEIGH ROLLERS AND IDLER FRAMES

Machined to less than 0.05 total indicator run-out (TIR) and 3.2 µm surface finish. Maximum imbalance of 0.014 Nm/Rollers and balance quality G16 as per ISO 1940-1. Shafts include stainless steel screws to allow for adjustment.

Rollers materials are steel, PVC, HDPE, composite and aluminium. Weigh frames are stiffened inline to minimise deflection and efficiently direct the load through the scale frame.



ENCLOSURES

Protect controllers with enclosures made from polycarbonate or stainless steel.



BILLET WEIGHTS AND CALIBRATION CHAINS

Stored in place billet weights for ease of calibration. Calibration chains and plate weights are also available.



SUNSHADES

Made from polycarbonate or stainless for cost-effective protection of controllers.



IN MOTION WEIGHING

FULLY FLOATING BELT SCALES

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SRO TECHNOLOGY
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FULLY FLOATING BELT SCALES BA-4X SERIES

Our fully floating belt scales are proudly designed and made in Australia.

We have supported the weighing industry for more than 30 years.

For fully floating belt scales, we are the one-stop-shop that:

- Designs
- Installs
- Constructs
- Maintains

We do the paperwork too.



AUSTRALIAN LEADER

The BA-4X series is a belt scale that has a fully floating load cell carriage arrangement that is proudly designed and made in Australia. They use the latest technology to give minimal deflection and optimise weighing by minimising self-mass while maximising strength. It handles low to high loadings and belt speeds, and has an accuracy of 0.25% to 0.75%.**

These belt scales can be galvanised, blasted, or painted per site requirement and welded to AS 1554.1 Class GP. Our belt scales support a wide range of control electronics from all major manufacturers, providing you with the flexibility to maintain commonality with existing equipment. We have supported the weighing industry for more than 30 years, servicing every state and providing sales and support Australia-wide.

QUALITY PRODUCT

One-piece fully assembled drop-in design allows for fast install and smooth commissioning.

Unique load cell mounting compensates for misalignment and reduces temperature drift.

Uses balanced weigh rollers and standard grub screws and cams to maintain long-term alignment and are less susceptible to vibration.

Unique low friction tie rod design reduces risk of binding and zero shift.

Has direct belt loading measurement with no pivots, lever arms or bearings.

Custom-built precision weigh quality idler sets and frames.

Maintains accuracy even in the harshest applications.

CUSTOMISABLE

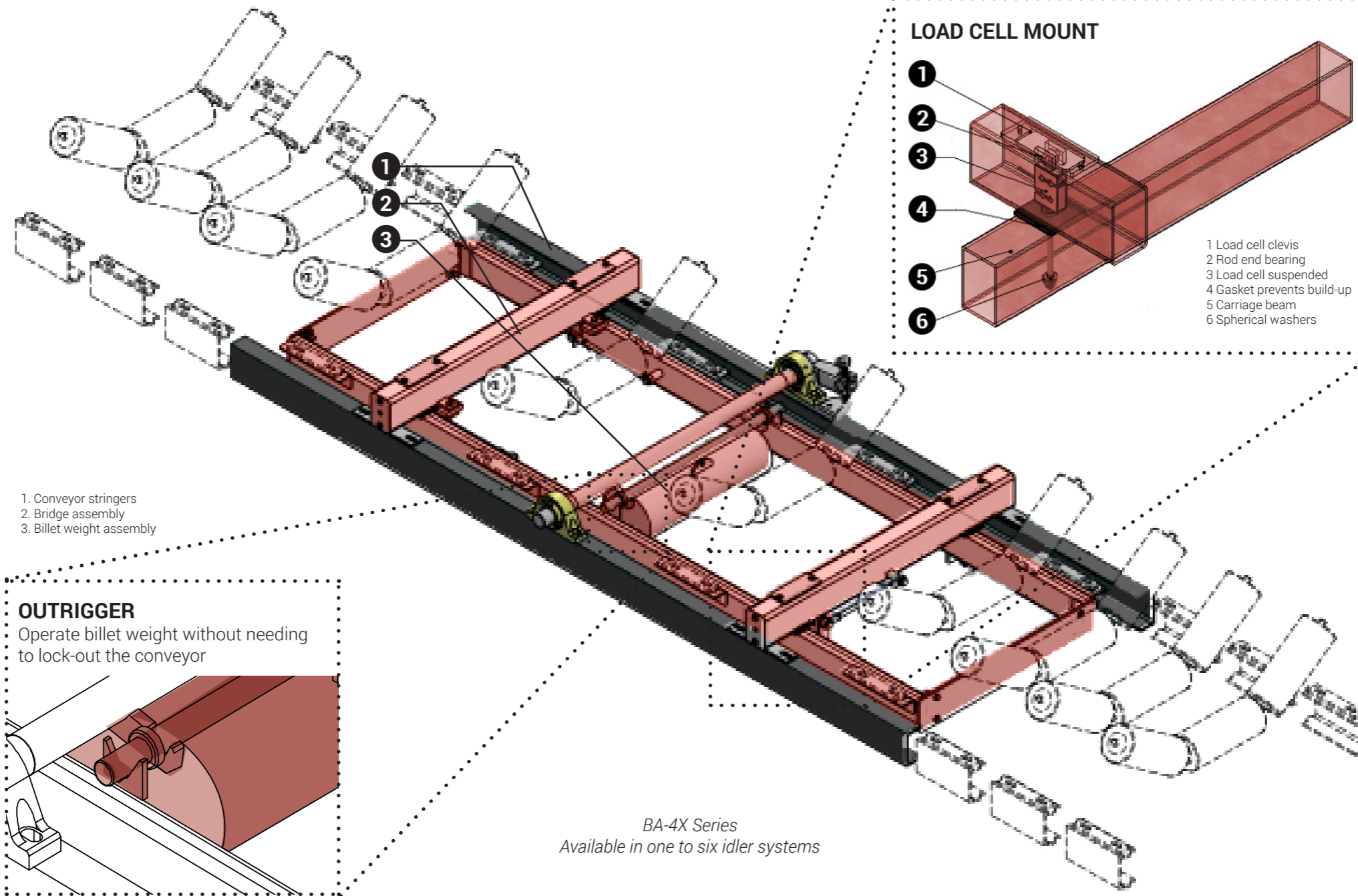
Enclosure for integrator can be SRO sunshade or IP66 stainless steel.

Supports all major belt scale controllers on the market.

Can provide custom non-intrusive designs if required.

Tail pulleys, trailing arms and spiral cage speed sensors are available.

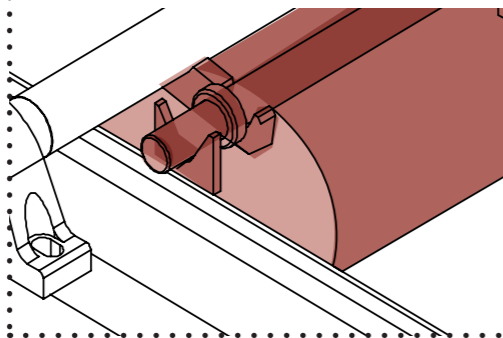
Painted to your spec, hot dip galvanised AS 1650, or full stainless construction.



1. Conveyor stringers
2. Bridge assembly
3. Billet weight assembly

OUTRIGGER

Operate billet weight without needing to lock-out the conveyor



UNIQUE LOAD CELL MOUNT

Mounting designed to protect load cells. Full mechanical decoupling from scale bridge and carriage to negate any side forces and drift when weigh frame expands with temperature.

Enclosed in stainless steel and sealed hermetically to reduce damage risk.

Foam gaskets to minimise risk of material getting bound between the bridge and carriage.

Uses spherical washers to reduce minor misalignment and increase accuracy.

QUALITY BILLET WEIGHTS

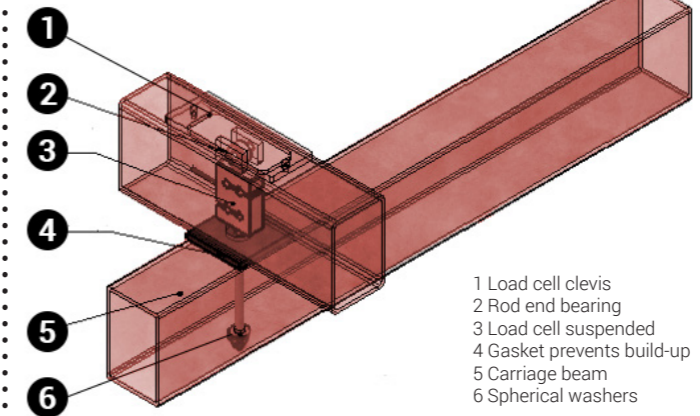
Self-shedding design to prevent build-up and zero drift.

Fail-safe design as billet weight is always supported by either the weigh frame or conveyor stringers.

Suspended framework or chains not used to hold under-slung billet weights.

Outrigger options allow operation of billet weight without needing to lockout the conveyor.

LOAD CELL MOUNT



- 1 Load cell clevis
- 2 Rod end bearing
- 3 Load cell suspended
- 4 Gasket prevents build-up
- 5 Carriage beam
- 6 Spherical washers

BA-4X Series
Available in one to six idler systems

FEATURES

- Fully floating, one to six weigh idlers.
- Made to suit to any belt widths.
- Direct belt loading measurement with no lever arms, pivots or bearings.
- Factory assembled for robust one-piece installation.
- Mild or stainless steel, welded to AS1554.1 Class GP.
- Four hermetically sealed stainless steel S-type load cells
- Custom-built precision weigh idlers and frames.
- Blasted or bare stainless, galvanised to AS4680:2006 or painted to customer specification.
- Supports a wide range of control electronics from all major manufacturers.
- SRO-designed sunshades and IP66 stainless enclosures for environmental protection.

SPECIFICATIONS

- Belt width: 450mm minimum to any belt width
- Number of idler frames: One to six
- Accuracy: 0.25% to 0.75%*
- Construction: Heavy duty mild steel
- Finish: Hot dip galvanised as standard
- Load cells: Four S-type load cells
- Integrator: SRO E21 as standard
- Output: Pulse totaliser, 4-20mA
- Operating temperature: -10°C to +60°C

OPTIONS

- Construction: Stainless steel
- Output: Ethernet, profibus and other serial comms
- Integrator: SRO, Thermo Ramsey, Siemens or customer choice
- Enclosure: SRO sunshade or IP66 stainless steel
- Speed sensors: Trailing arm, tail pulley mount, spiral cage pulley and others

LOCAL SERVICE AND COMPREHENSIVE SUPPORT

Technicians and bases in key areas across Australia making local service easy. NMI certified with extensive expertise and industrial experience.

SPARES ON HAND AND FAST DELIVERY

Extensive support network gives fastest delivery of spare parts in Australia. Spares for all common components held on shelf for fast replacement.



OUR TECHS ARE
NMI CERTIFIED

* Accuracy depends on speed, environmental conditions and location