



PRODUCT BROCHURE | BELT WEIGHER SYSTEMS

Precision Belt Weigher PBW2 Series

PBW2-1 • **PBW2-2** Two load cell | Single & dual idler | Part of the PBW range



Your partner for the improved performance, purity & efficiency of material flow systems for mining & quarrying.

Australian designed & built

Weigh frames made in house to our own design.

NMI licensed technicians

Mine-site compliant crews for install & calibration.

Australia-wide service

Brisbane, Rockhampton, Sydney & Melbourne.

Precision Weighing for Demanding Conveyors

The PBW2 series is the two load cell member of the Accurate Industries Precision Belt Weigher (PBW) range, available in single idler (PBW2-1) and dual idler (PBW2-2) configurations. The wider PBW range also includes the four load cell PBW4 series, with one to four idler frames. Belt weighers allow you to monitor production output and inventory, or regulate product load-out, whilst feeding back information to the plant — in quarries, mines, process plants, ports and more.

Both PBW2 models use a centrally floating weigh frame and are rated for belt speeds up to 6.0 m/s, with accuracy from $\pm 0.50\%$.* The PBW2 series sits between our CBW compact scales (rated to 3.5 m/s) and the fully floating PBW4 series for the highest accuracy classes.

PRECISE

The highest possible accuracy for the equipment & conditions

ROBUST

Made for the environment — built to last

FLEXIBLE

Flexible designs to meet all requirements & conveyor types

THE PBW RANGE AT A GLANCE

Model	Load cells	Idlers	Weigh frame	Best accuracy*	Max. rated speed
PBW2-1	2	1	Centrally floating	$\pm 0.50\%$ to 1.5 m/s	6.0 m/s
PBW2-2	2	2	Centrally floating	$\pm 0.50\%$ to 3.0 m/s	6.0 m/s
PBW4-1	4	1	Fully floating	$\pm 0.25\%$ to 1.0 m/s	3.5 m/s
PBW4-2	4	2	Fully floating	$\pm 0.25\%$ to 2.0 m/s	5.0 m/s
PBW4-3	4	3	Fully floating	$\pm 0.20\%$ to 3.0 m/s	6.0 m/s
PBW4-4	4	4	Fully floating	$\pm 0.125\%$ to 4.0 m/s	8.0 m/s

* Stated accuracies are $\pm$ of actual weight, subject to installation and conditions — see Notes on page 5. This brochure covers the PBW2 series; ask us for PBW4 series details.

INTEGRATORS & SPEED SENSORS

The PBW2 series pairs with EMC ModWeigh MP1 & MP2 or Schenck Process Intecont Tersus integrators, selected for the application, the accuracy and approvals required, and how the system needs to talk to your plant control system. Spiral cage, trailing arm and drum mounted speed sensor options are available to suit the conveyor.

LOAD CELLS

Each PBW2 scale uses two stainless steel S-type load cells, with IP67 ingress protection for harsh site conditions and an OIML R60 C3 accuracy class.

Accuracy Class	OIML R60 C3 (combined error $\leq \pm 0.020\%$ FS)
Overload	Safe 150% Ultimate 300% of capacity
Operating Temperature	-35°C to +65°C (compensated -10°C to +40°C)
Construction / Protection	Stainless steel element, IP67, shielded polyurethane cable

COMPLETE LIFECYCLE SUPPORT

Beyond supply, our team provides consultation and design, weigh quality idler frames and rollers, installation and commissioning, calibration and testing, repairs and maintenance, and remote support.

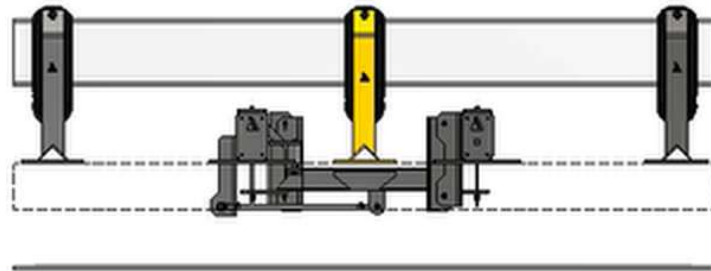
PBW2-1 TWO LOAD CELL, SINGLE IDLER

The PBW2-1 is a two load cell precision belt weigher with a single weigh idler. The weigh frame sits between support beams that bolt to the conveyor structure, with the weigh idler carried on a centrally floating, two load cell weigh frame. It is rated for belt speeds up to 6.0 m/s, with accuracy from $\pm 0.50\%$.*



KEY FEATURES

- Centrally floating, two load cell weigh frame
- Single weigh idler arrangement
- Rated for belt speeds up to 6.0 m/s
- Support beams with bolt-down base plates for mounting to the conveyor structure
- Compatible with EMC ModWeigh and Schenck Intecont Tersus integrators
- Store-in-place (SIP) calibration weights
- Hot dip galvanised or bead blasted stainless steel



Side elevation — weigh idler highlighted

SPECIFICATIONS

Belt Width	750mm to 2,000mm
Idler Spacing	500mm to 1,500mm
Weigh Frame Type	Centrally floating, two load cell
No. of Idlers	One (single idler)
Accuracy	0–1.5 m/s ($\pm 0.50\%$) 1.5–3.5 m/s ($\pm 1.00\%$) 3.5–6.0 m/s ($\pm 1.50\%$)*
Construction	Hot dip galvanised mild steel or stainless steel
Finish	Galvanised (mild steel) or bead blasted (stainless steel)
Load Cells	Two — stainless steel S-type, OIML R60 C3, IP67
Load Cell Rating	Safe overload 150%, ultimate overload 300% of capacity
Calibration	Store-in-place (SIP) calibration weights
Integrator	Compatible with EMC ModWeigh MP1 & MP2 and Schenck Process Intecont Tersus integrators
Speed Sensor	AI Spiral Cage, Trailing Arm, or Drum Mounted speed sensor (custom options available)

* Accuracy depends on installation and operating conditions; see Notes on page 5. Custom belt widths available on request.

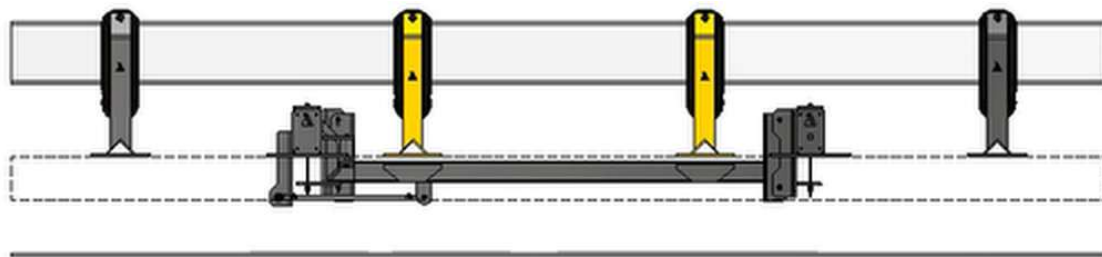
PBW2-2 TWO LOAD CELL, DUAL IDLER

The PBW2-2 is the dual idler version of the PBW2 series. Two weigh idlers are carried on a two load cell weigh frame, measuring the belt load over a longer weigh span than a single idler scale. The longer span lets the PBW2-2 hold $\pm 0.50\%$ accuracy up to 3.0 m/s — twice the belt speed of the PBW2-1 at the same accuracy class.*



KEY FEATURES

- Centrally floating, two load cell weigh frame
- Dual weigh idler arrangement for a longer weigh span
- $\pm 0.50\%$ accuracy up to 3.0 m/s; rated to 6.0 m/s*
- Support beams with bolt-down base plates for mounting to the conveyor structure
- Compatible with EMC ModWeigh and Schenck Intecont Tersus integrators
- Store-in-place (SIP) calibration weights
- Hot dip galvanised or bead blasted stainless steel



Side elevation — weigh idlers highlighted

SPECIFICATIONS

Belt Width	750mm to 2,000mm
Idler Spacing	500mm to 1,500mm
Weigh Frame Type	Centrally floating, two load cell
No. of Idlers	Two (dual idler)
Accuracy	0–3.0 m/s ($\pm 0.50\%$) 3.0–4.0 m/s ($\pm 0.75\%$) 4.0–6.0 m/s ($\pm 1.00\%$)*
Construction	Hot dip galvanised mild steel or stainless steel
Finish	Galvanised (mild steel) or bead blasted (stainless steel)
Load Cells	Two — stainless steel S-type, OIML R60 C3, IP67
Load Cell Rating	Safe overload 150%, ultimate overload 300% of capacity
Calibration	Store-in-place (SIP) calibration weights
Integrator	Compatible with EMC ModWeigh MP1 & MP2 and Schenck Process Intecont Tersus integrators
Speed Sensor	AI Spiral Cage, Trailing Arm, or Drum Mounted speed sensor (custom options available)

* Accuracy depends on installation and operating conditions; see Notes on page 5. Custom belt widths available on request.

PBW2 Series Comparison

	PBW2-1	PBW2-2
Belt Width	750 – 2,000mm	750 – 2,000mm
Idler Spacing	500 – 1,500mm	500 – 1,500mm
Weigh Frame Type	Centrally floating	Centrally floating
No. of Idlers	One	Two
Accuracy*	±0.50% – ±1.50%	±0.50% – ±1.00%
±0.50% up to	1.5 m/s	3.0 m/s
Max. rated belt speed	6.0 m/s	6.0 m/s
Calibration	Store-in-place (SIP)	Store-in-place (SIP)
Construction	HDG mild steel or bead blasted stainless	HDG mild steel or bead blasted stainless
Load Cells	2 × OIML R60 C3	2 × OIML R60 C3
Integrator	EMC ModWeigh / Schenck	EMC ModWeigh / Schenck

Need higher accuracy? The four load cell PBW4 series offers one to four fully floating idler frames — contact us for details.

WHY ACCURATE INDUSTRIES

- 100% Australian owned and operated
- Field technicians NMI registered & licensed
- Mine/quarry-compliant vehicles and crews
- Directors with 45+ years hands-on experience
- Service & calibration for all major brands
- Brisbane, Rockhampton, Sydney, Melbourne + Perth partner

NOTES

** Stated accuracies are ± of actual weight and are based on correct installation and commissioning in accordance with Accurate Industries' Installation, Operation, and Maintenance (IOM) manual. Actual performance may vary depending on belt speed, material characteristics, conveyor design, environmental conditions and installation location. For application-specific guidance, contact Accurate Industries.*

TALK TO OUR TEAM

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Request a quote or application review

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