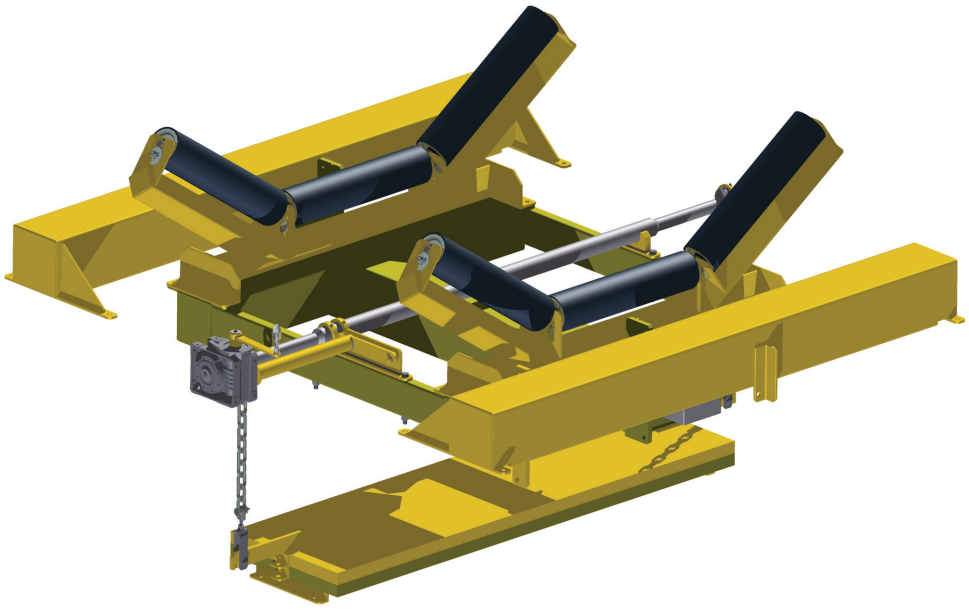
PCS 2

Precision Centrally Suspended Belt Weigher

CONTROL SYSTEMS TECHNOLOGY

www.controlsystems.com.au



FEATURES

- Precision fully suspended weigh frame
- Direct force measurement (no lever arms, pivots or bearings)
- 2 load cells
- 2 – 4 idler weighlength
- Certified as Legal for Trade
- Accuracy up to 0.25%
- Individually engineered/custom designed
- Designed for minimal material build up
- Extended idler pitch (if required for high tension belts)
- Solid mild steel construction or stainless steel for extreme environments
- Galvanised and/or painted to customer specification
- Australian made

TRADE CERTIFICATIONS

AUSTRALIA

NMI Certificate of Approval No. 6/14D/13 Accuracy Class 0.5, Class 1, Class 2; 2003 (first approved 1997)

OIML

Certificate of Conformance No. R50/1997-AU-03.01, Accuracy Class 0.5; 2003

MODEL IPC-14 ELECTRONICS

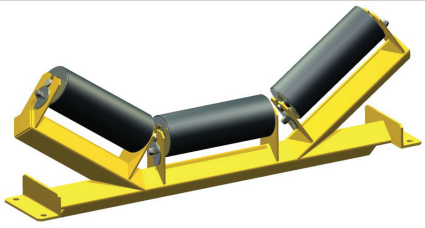
- Fully automated belt weigher electronics
- Programmable auto zero tracking
- Isolated outputs for rate, total and alarms
- RS232/RS485 duplex serial communications (Modbus compatible)
- DeviceNet option available
- IP66 standard enclosure
- DIP/IS protection available (for hazardous environments)
- Multipurpose software including PIDD controller, bin scale and Loss-in-weight capability
- "Simple Menus" option
- Controls one or two belt weighers.
- Industry's most diverse and capable belt weigher integrator

BELT WEIGHER PERIPHERALS

MODEL SIP: STORED IN PLACE CALIBRATION MASS

- Lever or gearbox operated for ease of use (mechanical advantage system)
- 100% of full scale design load (International Best Practice)
- Highly accurate, fast and simple calibration check
- Significant OH&S benefits - avoids back and finger injuries
- Retrofit available for all makes of belt weighers

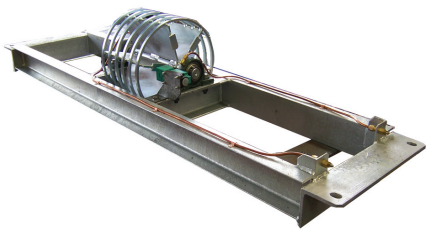
Other options available



MODEL WQI-AP: WEIGH QUALITY IDLER WITH ADJUSTABLE PROFILE

- Purpose built weigh quality idler frames
- Rigid construction for low deflection
- Idler alignment by CST designed SmartCam for precision and ease of adjustment and permanent setting on frame
- Roll change without re-alignment
- High wing idler clearance to stringers prevents material jamming which affects weigher accuracy.

Other options available



MODEL SCP: SPIRAL CAGE PULLEY TACHOMETER

- Driven by underside of carry belt
- 300mm wide contact
- Complete with Inductive proximity sensor
- Installed near weigh frame

Other options available

PCS 2
Specifications

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Weigh frame model PCS2

Weigh Length	1,000mm – 12,000mm
Belt Width	300mm – 3,000mm
Weigher Capacity	1 tph – 50,000 tph
Accuracy (typical)	0.25% to 2%
Accuracy Range (typical)	10% – 120% Full Scale
Conveyor speed (typical)	0.5mps – 6.0mps
Material	Mild Steel (Option Stainless Steel)
Surface Finish	Painted to order and/or Hot Dip Galvanised

Load Cells

Number	2
Type - Standard (Tool Steel, Nickel Plated)	Precision Shear Beam, 2000 divisions
Type - Optional	Certified (3,000 divisions), Stainless Steel
Environmental Protection	IP67
Safe Load Limit	150% of Rated Capacity
Pod Cover Material	Stainless Steel
Junction Box Material - standard	Powder Coated Mild Steel
Junction Box Material - optional	Stainless Steel or Plastic

Idler Sets

Number of Weigh Idlers	2 – 4
Number of Lead-in/Lead-out Idlers Minimum/Standard/Maximum	1/2/3
Idler Spacing	500mm – 5,000mm
Trough Angle	0º to 60º
Material	Mild Steel (Option Stainless Steel)
Surface Finish	Painted to order and/or Hot Dip Galvanised

Certified Calibration Mass Options

Stored-in-place Masses	Lifted by lever or gearbox
Hand Masses	10kg or 16kg Masses and Support Tray
Chain Mat	Stored above conveyor, or remotely
Roller Chains	Stored above conveyor, or remotely

Operational Temperature Range

Standard	-10°C to +40°C
Optional	-40°C to + 50°C

Certifications

Australia	National Measurement Insitute Class 0.5
Europe	OIML Class 0.5
CE (For Electronics)	Attestation of Conformance Nos. 46736.3 & .4

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FOR OUR OVERSEAS AGENTS, PLEASE REFER TO OUR WEBSITE:

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