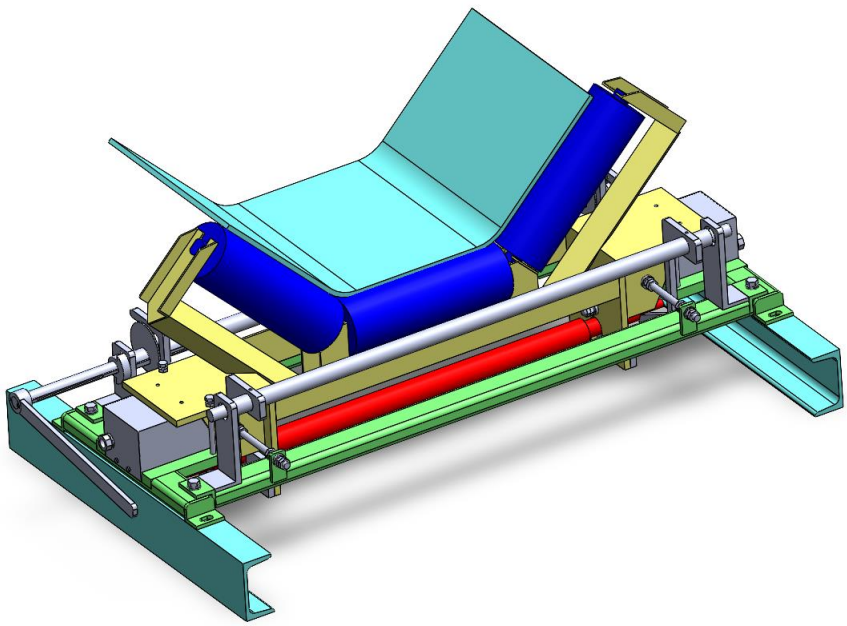
EN-PCX2

Precision Centrally Cross Supported Belt Weigher



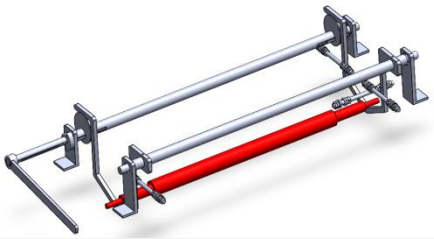
Features

- Precision fully suspended weigh frame
- Centrally cross supported, suitable
- for tight and complex applications
- Direct force measurement
  (no lever arms, pivots or bearings)
- 2 load cells
- 1 – 2 idler weighlength
- Certified as Legal for Trade
- Accuracy up to 0.5%
- Individually engineered/custom designed
- Designed for minimal material build up
- Solid mild steel construction or stainless
- steel for extreme environments
- Galvanised and/or painted to customer
  specification
- Explosion Proof Structure
- Korea made

Model EN-ENOD4-B Electronics

- Up to 8 load cells conditioning
- Continuous fl ow rate and weight total
  calculation
- 1 input for belt speed sensor
- 2 digital inputs (4 with IO+ version)
  and 4 outputs
- Analog output 0-10 V or 4-20 Ma
  (IO+ version)
- USB link for PC and RS485 link for
  HMI eNodTouch
- Optional Bluetooth communication





model EN-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

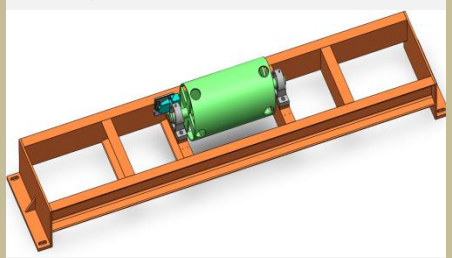
Other options available



model EN-WQI : Weigh Quality idler with adjustable profile

- Purpose built weigh quality idler frames
- Rigid construction for low deflection
- Idler alignment by ENERSYS designed 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 EN-BT: pulley tachometer

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

Other options available

Enersys co.,ltd.

Tel : 82-31-739-6170
Fax : 82-31-739-6184
E-mail : sdso@enersys.biz
Home Page : http://www.enersys.biz

Address : Shinil B/D 3F, 14, Sunhwan-ro 226beon-gil, jungwon-gu, seongnam-si, Gyeonggi-do, 462-807, Korea

EN-PCX2

specifications

Weigh frame model EN-PCX2

Weigh Length	100mm – 2,000mm
Belt Width	300mm – 3,000mm
Weigher Capacity	1 tph – 50,000 tph
Accuracy (typical)	0.5% 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	Stainless Steel
Environmental Protection	IP66 & Ex Ta
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	1 – 2
Number of Lead-in/Lead-out Idlers Minimum/Standard/Maximum	1/2/3
Idler Spacing	100mm – 1,000mm
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	5kg or 10kg or 20kg Masses and Support Tray

Operational Temperature Range

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

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EN-PCX2

specifications

Electronics EN-ENOD4-B

Power supply	10 ... 28 (option 1 : 110 ... 240 VAC) VDC		
Max. consumption	2.2 CAN / 3.4 PROFIBUS® / 4.4 EtherNet +3 IO+ / +7.7 eNodTouch-MS / +6.8 ML		
Bridge excitation voltage	5 VDC		
Input sensor range min./max.	±7.8 mV/V		
Min. input sensor resistance	43 Ω		
Min. signal by division	0.02 µV		
Housing	Inox / IP65 - Stainless steel / IP65		
Cable gland qty	4 (option 2 : 7)		
Nominal temperature range	-10 ... +40 ° C		
Classe de précision Accuracy class	±0.005 % F.S.		
Thermal Zero/Span shift	±0.00015 typ./ ±0.0002 typ %/° C		
Internal/Scaled resolution	24 bits/ ±500 000 pts		
Conversion rate	400 Conv./s.		
Integral methode	Quadratic polynominal		
Integral period	250 ms		
Pulse input - Encoder - TTL: Range low/high - HTL: Range low/high	Max. 4 kHz 0 ... 0.5 / 2.4 ... 5 VDC 0 ... 2.5 / 5 ... 30 VDC		
Supply output (speed sensor)	12.5 ±2 VDC / 30 mA		
Digital inputs	Class 3 : 11 ... 30 VDC / 12.6 mA		
Digital outputs (static relays)	24 VDC/ 400 mA max		
Analog output - Resolution - Type	 16 bits 0-5 V/0-10 VDC, 4-20 mA/0-20 mA/0-24 Ma		
Galvanic isolation	1 000 V		
1 RS485 (Auxiliary) - Baud Rate	Half Duplex 9 600 ... 115 200 bauds		
1 USB	2.0		
Max. update frequency of data (measurement) on the bus	CANopen®	RS485/USB	EtherNet
	1 000/s.	200/s.	100/s.
1 RS485 (API) - Baud Rate - - Protocols	Half Duplex 9 600 ... 115 200 bauds Modbus RTU		
CANbus output/CANopen®	CAN 2.0 A		
PROFIBUS-DP V1 output	9.6 ... 12 000 Mbps		

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