

EXTENSO



.....robust industrial precision

Our Pedigree

Extenso is a leading manufacturer and supplier of turnkey solutions for Process Control and Weighing Systems.

We have experience across a broad spectrum of industries, especially in mining, quarrying, nuclear, power generation, food and beverage, pharmaceutical, chemical, general engineering and building materials.



Our skill set includes:

- System Feasibility Studies and Design
- Project Management
- Process Evaluation and System Optimisation
- Mechanical and Electrical Engineering
- Service and System Maintenance
- Panel Building
- Digital and Analogue Electronics
- Application and System Software
- Hazardous Area Systems

EP52 Beltweigher Controller

The EP52 Proweigher is the latest in along line of dedicated controllers from Procon, designed for demanding beltweighing applications in the harshest of environments. This powerful controller, which is housed in a compact enclosure with an IP65 front panel, ensures high performance combined with long-term repeatability.

When supplied with the Extenso Load Cell Beltweigher, depending on the requirements and conveyor design, accuracies of ± 0.5 , 1 and 2% can be achieved. Retransmission of live net weight, flow rate and totalised values can be by either serial communications or analogue outputs. The EP52 is also field bus compatible.



- Load cell input
- 5 digit LED and 2 x 20 character LCD displays
- Integrates with PLCs and SCADA
- 2 optional analogue outputs
- IP65 front panel
- Belt speed control and batch control

Software Solutions



Extenso provides both application and system software. Our engineers have, over many years, built an extensive in-house modular software library. Consequently, when we design customised software solutions for overall plant control, we can incorporate existing tried and tested software modules. This approach greatly increases conformity and reliability thus reducing final test and commissioning timescales for our final software.

Panel Building

Electrical, electronic and pneumatic control panels, including MCC and multibay units, are built specifically for each project using standard components. Panels are functionally tested and fully documented prior to installation and commissioning.



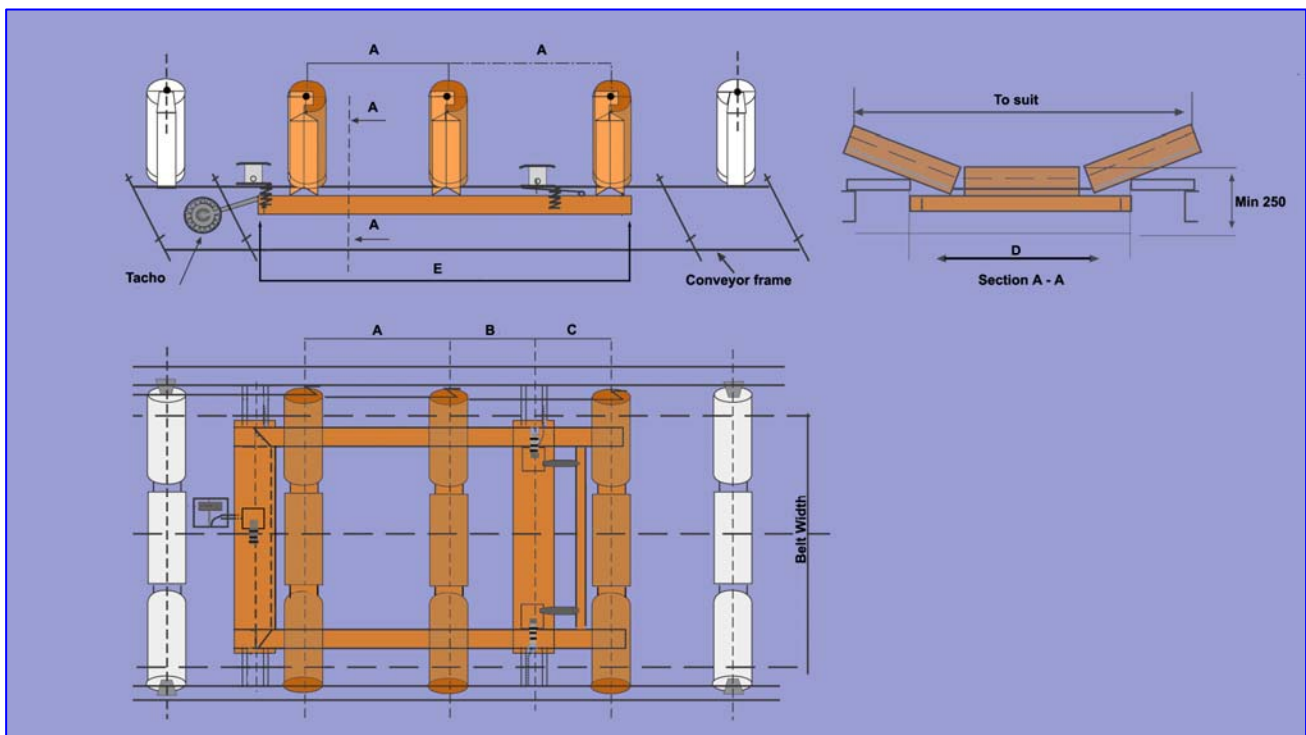
Beltweighers

The Beltweigher can either be single or multi idler and the weigh frame design ensures easy mounting in the conveyor. Depending on the conveyor design and required accuracy, the weighbridge can consist of 1, 2 or 3 machined mild steel coated idlers. Each system comes complete with an adjustable idler before and after the weighbridge. The load cell signals processed by the EP50 controller are combined with the belt travel speed (measured by the tail drum mounted tachometer) to provide an accurate weight reading per unit time and totalised values.

- Conveyor widths: 400 – 2000 mm (up to 2500 mm on request)
- Flow rates: 0.5 – 5000 tonnes/hour
- Load cells: 1, 2 or 3 stainless steel IP68 load cells depending on required accuracy
- Repeatability duration: typically 12 months depending on application

| Belt width | Idler | A | B | C | D x E | Approx wt kg |
|------------|------------|------|-----|-----|-------------|--------------|
| 500 | Ø89 x 200 | 1000 | 600 | 400 | 600 x 2220 | 100 |
| 650 | Ø89 x 250 | 1000 | 600 | 400 | 600 x 2220 | 106 |
| 800 | Ø108 x 315 | 1000 | 600 | 400 | 800 x 2220 | 126 |
| 1000 | Ø108 x 380 | 1000 | 600 | 400 | 800 x 2220 | 134 |
| 1200 | Ø133 x 465 | 1000 | 700 | 500 | 1000 x 2620 | 192 |
| 1400 | Ø133 x 530 | 1000 | 700 | 500 | 1000 x 2620 | 200 |

All measurements in mm unless otherwise stated

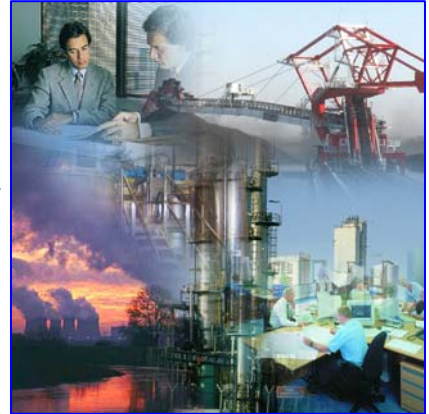


Simple Calibration

Periodic calibration checks can be carried out simply and expediently by utilising the roll-over calibration weights. These dead weights are normally 'parked' across the conveyor stringers and then lowered by the cam mechanism to carry out calibration.

Project Management

We understand how important it is to work closely with our clients from the outset of any project and as a result, Extenso is organised specifically to provide highly effective project management. As part of this process we establish the functional design specification with our customers and provide detailed project plans, milestones and reviews. We take full responsibility for your system providing you with one point of contact in conjunction with clients' engineering departments to ensure smooth implementation within required time frames.



Service and Support

Extenso places great emphasis on after-sales service and support. We operate a comprehensive service, support, installation and commissioning facility throughout the **UK and the Rest of the World - 24 hours a day, 7 days per week**. Our contract maintenance schemes ensure your plant performance is maintained at peak potential. We support and cover our own and most other manufacturers' products and systems.



- 7-day, 24 hour Service and Support
- Service Contract Agreements
- Cost-effective Calibration Techniques
- Installation and Commissioning
- Repair, Refurbishment and Upgrades



We also offer comprehensive training, both in-house and on site, so that you can get the best from your belt weighing system and process.

Extenso Belt Weighers are in use throughout the world and our customers include:
HYDRO ALUMINIUM, ELKEM, STATOIL, HECKET MUTISERV, TITANIA, NORGIPS, SSAB Sweden, LKAB Sweden, ALCAN.



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