



TRU-TRAC[®]



TRU-TRAC[®]
BELT SCALES



TRU-TRAC® BRANCHES

SOUTH AFRICA:

- Pretoria (H/O)
- Middelburg
- Steelpoort
- Richardsbay
- Rustenburg
- Kuruman
- Saldanha
- Port Elizabeth
- Springbok

AFRICA:

- Zambia
- Burkina Faso
- DRC
- Botswana
- Zimbabwe
- Mozambique
- Lesotho
- Swaziland
- Ghana
- Mali
- Tanzania
- Kenya
- Namibia

INTERNATIONAL DISTRIBUTORS:

- Australia
- New Zealand
- China
- South East Asia
- North America
- Central America
- South America
- Europe
- Eastern Europe
- Middle East
- New Caledonia

TRU-TRAC® GLOBAL FOOTPRINT

ABOUT US TRU-TRAC®

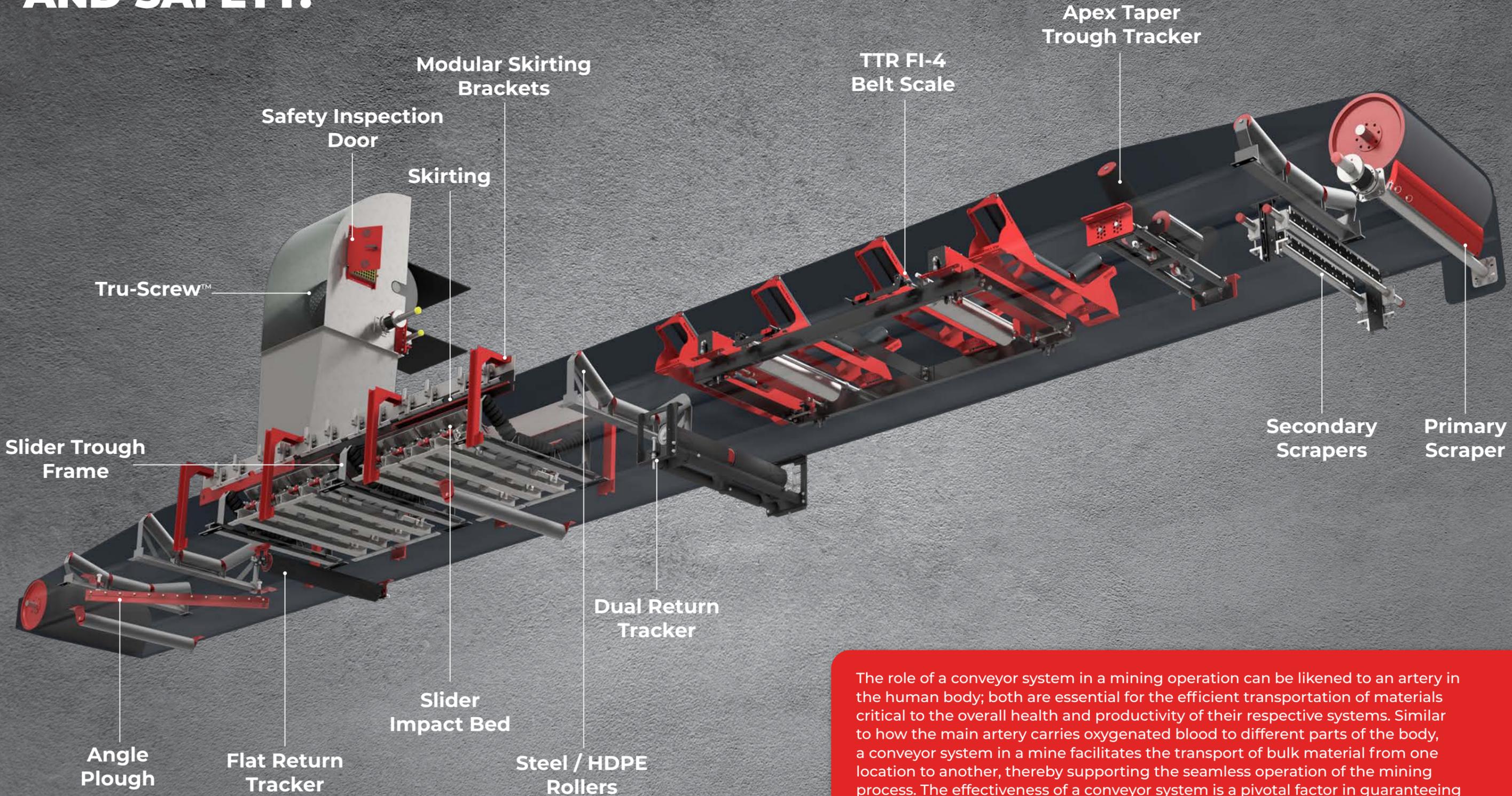
Tru-Trac® stands as a world-leading manufacturer and supplier of conveyor belt solutions and services, catering to the mining and bulk material handling industries globally. As a South African enterprise with a global reach, Tru-Trac® maintains a direct local technical sales and service presence across the African continent and a sales and distribution network spanning 80 countries.

Conveyors serve as the lifeline for efficient bulk material handling operations, and for nearly 30 years, Tru-Trac® has been instrumental in assisting the world's prominent mining houses to process minerals with enhanced efficiency, reliability, and safety.

We have curated a repository of industry knowledge, technical expertise, and operational scale. This accumulation empowers us to assist our customers in overcoming nearly any conveyor system challenge they may encounter.



MAXIMISE CONVEYOR SYSTEM PERFORMANCE, EFFICIENCY AND SAFETY.



The role of a conveyor system in a mining operation can be likened to an artery in the human body; both are essential for the efficient transportation of materials critical to the overall health and productivity of their respective systems. Similar to how the main artery carries oxygenated blood to different parts of the body, a conveyor system in a mine facilitates the transport of bulk material from one location to another, thereby supporting the seamless operation of the mining process. The effectiveness of a conveyor system is a pivotal factor in guaranteeing the efficiency and profitability of a mining operation.

YOUR PROBLEMS

OUR SOLUTIONS

01 BELT MISALIGNMENT

The drift of the conveyor belt off-center results in belt damage, material spillage, structural damage, excess power consumption, and stoppages.

SOLUTION:
Tru-Trac® Trackers



02 BELT CLEANING

Carryback refers to the material that adheres to the conveyor belt and dislodges on the return side, posing safety risks, environmental harm, cleaning expenses, and reduced efficiency.

SOLUTION:
Tru-Trac® Scrapers



03 IMPACT DAMAGE

Safeguard your conveyor system from impact damage at transfer points to enhance safety and extend the lifespan of components.

SOLUTION:
Impact Control Solutions



04 DUST & SPILLAGE

Dust hazards can jeopardize operator safety and pose fire risks. Inadequate sealing at transfer points results in spillage, material loss, decreased production, and elevated costs associated with manual cleaning.

SOLUTION:
Loading Zone Solutions



05 BELT REPAIRS

Conveyor belt repairs can lead to prolonged operational downtime, incurring significant costs during the offline period.

SOLUTION:
Mechanical Fasteners



06 SAFETY HAZARDS

Ensuring a safe working environment for staff is imperative to prioritize their safety and well-being.

SOLUTION:
Conveyor Safety Solutions



07 MONITORING & PRODUCTION EFFICIENCY

Accurate flow rate measurement and reporting on conveyor belts are crucial for ensuring efficient business operations.

SOLUTION:
Belt Scales
Speed Sensors
Remote Monitoring System



08 BELT SLIP

This problem arises when there is inadequate grip between the head pulley and the belt, often caused by a loss of friction.

SOLUTION:
Pulley Lagging



BELT SCALES

**PRECISION IN
MOTION,
CONFIDENCE IN
OPERATION.**

Tru-Trac®

BELT SCALES

In the domain of bulk handling systems, a dependable conveyor belt scale is crucial. Tru-Trac® introduces its cutting-edge Electro-Mechanical belt scale, integrating adjustable weigh frames spanning from single idler through to six idler configurations.

Designed with precision, our system ensures accuracy regardless of varying belt tensions or speeds. An "On-Board" calibration ensures streamlined checks, and our tailored instrument guarantees precise belt speed readings.

Beyond the product, Tru-Trac® offers unmatched backup service. Our technicians maintain optimal performance and offer regular calibrations at competitive rates, demonstrating our commitment to excellence.



Tru-Trac® BELT SCALES

MAXIMIZE BULK MATERIAL WEIGHING WITH HIGH PRECISION BELT SCALE SYSTEMS, BACKED BY SERVICE AND SUPPORT

In today's demanding bulk material handling environment—spanning from mining to utilities and processing plants—the accuracy and reliability of your belt scales are imperative. These critical components ensure the continuous, efficient operation of your conveyance systems, directly affecting your bottom line.

Our focus is on maximizing the performance and reliability of your operations with accurate and reliable belt scales, backed by superior service solutions, ensuring your equipment is always calibrated for optimal accuracy.

MAIN FEATURES

- **Accurate Weighing:** Tru-Trac Conveyor belt provide highly accurate and reliable weight measurement of materials as they move along the conveyor.
- **Continuous Monitoring:** real-time monitoring of material flow, allowing for immediate adjustments to maintain process efficiency.
- **Robust Construction:** Built to withstand harsh environments, our conveyor belt scales are constructed to ensure long-term operation and minimal maintenance.
- **Variety of Sizes:** available in a range of sizes and configurations to suit any belt width and applications.
- **Integration Capabilities:** Tru-Trac conveyor belt scales can be easily integrated with control systems, data logging, and automation, allowing for seamless data collection and process control.



ABOUT TTR FI-4 / 6I-4

Four / Six Idler, Four Load Cell Belt Scale System

The TTR FI-4 belt scale system boasts a high-precision fully floating pivotless weigh frame and a four-load cell design, ensuring accuracy for Critical Control Point applications and high-precision demands. With an achievable accuracy margin under 0.1%, it sets industry standards in metallurgical accounting. Offering an optional six-idler design and seamless integration with the Tru-Trac® Remote Monitoring System, it optimizes efficiency and profit. Maintenance is simplified with semi-automatic calibration weights and optional automated calibration roller chains. The robust idler frame design, customized with various finishes, ensures durability, while Stainless-Steel construction is available for added resilience.



MAIN FEATURES

- **Weigh Frame:** High Precision fully floating pivotless design
- **Load Cell Design:** 4 load cells, installed in tension
- **Enhanced Precision:** Optional 6 idler design
- **Accuracy:** Achievable accuracy error below 0.1%
- **Remote Monitoring:** Compatible with www.tru-trac.app Remote Monitoring
- **Calibration Convenience:** Semi-Automatic calibration weights
- **Automated Calibration:** Optional calibration with roller chains
- **Sturdy Idler Frame:** Robust and improved design
- **Customized Finishes:** Powder coated, painted, or galvanized
- **Stainless-Steel Option:** Stainless-Steel construction available on request

BELT SCALE SPECIFICATIONS

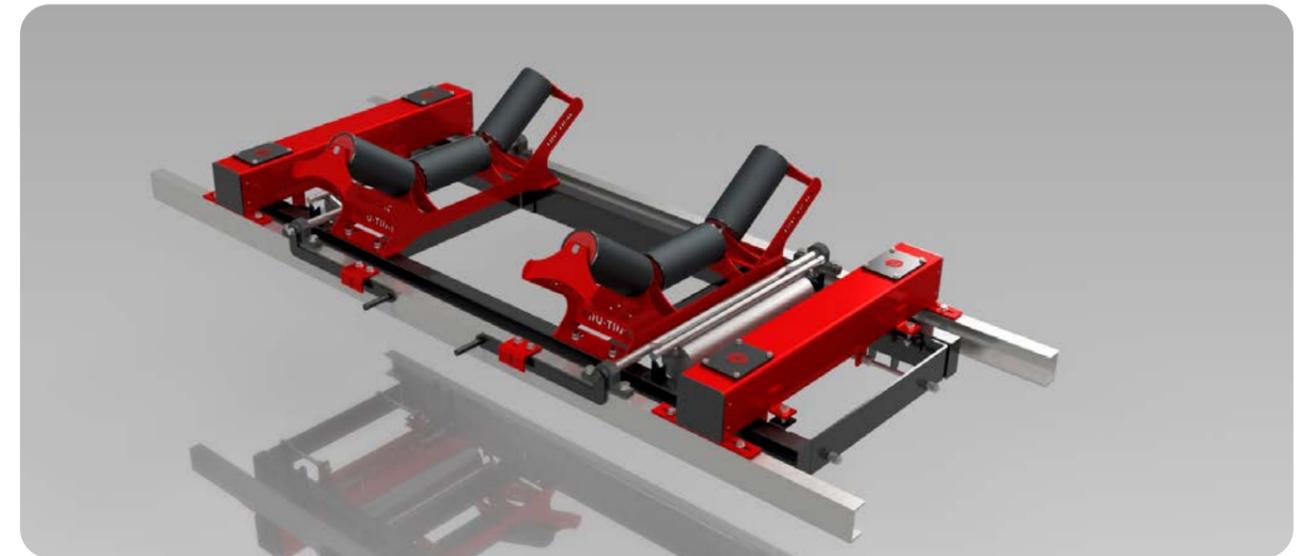
WEIGHT SPAN	4 idler configuration: 4000mm (Idler spacing of 1000mm) 6 idler configuration: 6000mm (Idler spacing of 1000mm)
RECOMMENDED INTEGRATOR	Tru-Trac AccuTrac Premium Integrator
LOAD CELLS	Four (4) environmentally protected high precision, C3, S-type load cells in tension. Overload Capacity: 150%
SCALE CONSTRUCTION	Mechanical Steel / Stainless Steel construction Powder coated / Painted / Galvanized to specification
CALIBRATION METHOD	Semi-Automatic Test Weight (>60% of max loading) Optional Automated Roller Calibration Chain

ABOUT TTR DI-4

Dual Idler, Four Load Cell Belt Scale System

The TTR DI-4 dual idler belt scale system optimizes plant mass balance with achievable accuracy errors of below 0.25%. Equipped with high precision load cells and a fully floating weigh frame, Tru-Trac® ensures accuracy and compatibility with heavy-load applications. Our dual idler scales are custom-engineered to suit your specific application, optimizing run of mine and in-plant processes.

The TTR DI-4 allows you to monitor production and plant performance and seamlessly integrates with our Remote Monitoring system.



MAIN FEATURES

- **High precision scale:** Assizable capability and NCRS accreditation (Pending).
- **Fully Floating design:** Supported by 4 x C4 / C3 load cells in tension.
- **High Belt speeds:** of up to 2.5m/s.
- **Torsion rods:** Designed to completely minimize horizontal movement.

BELT SCALE SPECIFICATIONS

WEIGHT SPAN	Dual idler configuration: 2000mm (Idler spacing of 1000mm)
RECOMMENDED INTEGRATOR	Tru-Trac AccuTrac Premium Integrator
LOAD CELLS	Four (4) environmentally protected high precision, C3, S-type load cells in tension. Overload Capacity: 150%
SCALE CONSTRUCTION	Mechanical Steel / Stainless Steel construction Powder coated / Painted / Galvanized to specification
CALIBRATION METHOD	Semi-Automatic Test Weight (>60% of max loading) Optional Automated Roller Calibration Chain

ABOUT TTR SI-2

Single Idler, Dual Load Cell Belt Scale System

The TTR SI-2 single idler belt scale system – a blend of simplicity, versatility, and unmatched reliability. This system boasts an impressive achievable accuracy margin of less than 1%. Designed for adaptability, the modular TTR SI-2 seamlessly integrates with conveyor belts of varying widths by simply replacing the existing idler frames.



MAIN FEATURES

- **Streamlined design:** for versatility and adaptability.
- **Dual load cells:** support solely the idler weight, ensuring compact cells and enhanced load cell resolution.
- **Versatility:** robust modular design to suit different belt widths
- **Achievable Accuracy** error of less than 1%.

BELT SCALE SPECIFICATIONS	
WEIGHT SPAN	Single idler configuration: 1000mm (Idler spacing of 1000mm)
RECOMMENDED INTEGRATOR	Tru-Trac AccuTrac Premium Integrator
LOAD CELLS	Highly accurate C3 load cells installed in compression Overload Capacity: 150%
SCALE CONSTRUCTION	Mechanical Steel / Stainless Steel construction Powder coated / Painted / Galvanized to specification
CALIBRATION METHOD	Semi-Automatic Test Weight (>60% of max loading) Optional Automated Roller Calibration Chain



ABOUT REMOTE MONITORING SYSTEM

Tru-Trac®'s Remote Monitoring System revolutionizes the management and operation of conveyor systems, providing a professional and technical solution for efficient belt scale performance monitoring and reporting. With advanced monitoring capabilities, this system offers real-time access to critical data, enabling users to remotely track performance and optimise mass balance. The benefits are manifold: improved operational efficiency, reduced downtime, enhanced accuracy, proactive maintenance, and increased productivity. By harnessing the power of Tru-Trac®'s Remote Monitoring System, businesses can achieve unparalleled control and maximize the overall performance of their conveyor systems, leading to significant cost savings and improved profits.

MAIN FEATURES

- **Real-Time Data Access:** Instant access to real-time production data on your PC or mobile devices.
- **Cloud-Based Event Logging:** Automatic logging of all production idling, downtime, and shutdown events to the cloud every minute.
- **Email Reports:** Automatically generated and emailed reports for your convenience.
- **Tonnage and Loadings Tracking:** Real-time monitoring of tonnage and loadings.
- **Production Targets Analysis:** Analysis of the percentage of targets achieved compared to planned production targets.
- **Data Visualization:** Automation of tables and charts for easy data visualization.
- **ERP Integration:** API Integration for seamless connectivity with ERP Systems.
- **Equipment Efficiency Metrics:** Monitoring OEE (Overall Equipment Effectiveness) and OOE (Overall Operational Effectiveness).
- **Alert System Customization:** An automated and customizable alert system for timely notifications.
- **Connectivity Options:** Flexible connectivity options, including Wi-Fi or GSM.
- **Customizable Parameters:**
 - Total tons
 - Target tons
 - Projected total tons
 - Current feed rate
 - Belt Loading
 - Belt speed



ABOUT INTEGRATORS

ACCUTRAC PREMIUM INTERGRATOR

Tru-Trac®'s AccuTrac integrator offers intelligent weighing, converting digitizer input into precise production monitoring and control. Custom designed for belt scale applications, it provides real-time tracking, data interpretation, and reports, making it the preferred choice for accuracy and reliability.

Unlock the full potential of your belt scale with the Belt Weigher Integrator. This state-of-the-art device seamlessly connects to your belt weigher, continuously computing both the material flow rate and the total material transferred.



MAIN FEATURES

- **Versatile Compatibility:** Supports various belt weigher designs with up to four load cells and different speed sensors, even using an internal speed simulator when speed sensors fail.
- **Intuitive HMI Control:** Access real-time data with a user-friendly touchscreen interface.
- **Seamless Integration:** The Integrator interfaces easily with external devices, offering various communication protocols.
- **Comprehensive Data Management:** The integrator features data logging and USB support for setup and maintenance.
- **Adaptive Inclinometer Integration:** Interfaces with inclinometer devices for incline changes, eliminating recalibration.
- **Precision, Adaptability, Efficiency:** Elevate material flow management with the Belt Weigher Integrator.

ACCUTRAC OPERATIONAL FEATURES

- **Customizable Data Tiles:** Tailor your display to your application using our versatile data tiles, selecting from various process data items to create a custom view.
- **Easy Reset:** For resettable process value tiles, a simple touch within the tile initiates the reset process, guided by onscreen instructions, ensuring smooth operation.
- **Clear Error Messaging:** The message tile serves as an instant alert system, communicating error conditions promptly while displaying current material status for your continuous awareness.
- **Diagnostics at Your Fingertips:** Access diagnostic screens quickly by touching the status integrator display area to find real-time weight and speed signals, along with calibration data.
- **Enhanced Control and Clarity:** Our intuitive interface enhances operational efficiency for an exceptional control experience.



ABOUT SPEED SENSORS

Tru-Trac® Speed Sensors provide an accurate, reliable way to measure conveyor belt speed, integrating seamlessly with belt scale systems. With advanced technology and a durable design, they offer precise speed readings in tough conditions. These sensors give operators real-time control, ensuring accurate weighing and efficient material handling. Combined with Tru-Trac® belt scales, they enhance productivity and profitability across various industries.

ROLLER SPEED SENSOR



MAIN FEATURES

- **Efficient Brushless System:** Installation of a brushless system within the wing roller for enhanced performance.
- **Weatherproof and Enclosed Design:** no exposed parts, ensuring durability in various conditions.
- **Simplified Replacement:** Easy replacement mechanism for maintenance convenience.
- **Enhanced Durability:** Reinforced idler roll shaft for increased robustness and longevity.
- **Speed Sensor Option:** Optional availability of an external wheel-to-belt speed sensor for added functionality.

STEPPER MOTOR SPEED SENSOR V3



MAIN FEATURES

- **Speed sensor wheel:** Gravity fed and runs on the return belt.
- **Protection cover:** preventing damage to sensing device by material spillage.
- **100 pulses:** per revolution.
- **2-wire connection:** to Integrator / Junction Box.

WEIGH CLASS FRAME & IDLERS

Precise approach and retreat idlers are essential for ensuring accurate weight measurements on conveyor belts. They play a critical role in maintaining proper belt tension and alignment, both of which significantly affect the accuracy of scale readings. Tru-Trac's weigh class idlers are engineered to meet stringent standards, featuring exact dimensions and minimal friction for optimal performance.



MAIN FEATURES

- **Expertly machined and balanced:** for exceptional belt weight accuracy.
- **Entirely manufactured in-house:** ensuring unparalleled quality.

ABOUT CALIBRATION CHAIN

The Tru-Trac® TTR AccuCal Roller Calibration Chain excels in the toughest conditions, offering unparalleled precision and safety for belt scale calibration. It replicates material loading dynamics accurately, maintaining consistent interaction with the conveyor belt.

By compensating for belt tension fluctuations, it significantly reduces calibration errors, ensuring thorough adaptation to belt behavior.

Featuring an automated Carousel and control panel, the TTR AccuCal system boosts safety and efficiency. Its innovative design redefines belt scale calibration standards, providing unmatched accuracy and reliability.



MAIN FEATURES

- **Enhanced Accuracy:** Regular calibration with the roller chain ensures that your conveyor belt scale provides precise weight measurements, reducing errors and improving process control.
- **Reduced Downtime:** Quick and easy installation means minimal disruption to your operations during maintenance, keeping your production running smoothly.
- **Longevity:** The durable construction of the roller chain results in reduced maintenance and replacement costs, providing a reliable, long-term solution.
- **Flexibility:** Adjustability allows for real-time calibration changes, adapting to different materials and conditions, thus maintaining measurement accuracy.
- **Versatility:** Compatible with various conveyor belt scale models, the roller calibration chain can be used across multiple applications, making it a cost-effective investment for your weighing needs.



BELT SCALE SERVICES

As an OEM there is no one is better equipped to service your belt scales than the Tru-Trac.

We are able to provide cost effective and reliable on site calibration and services for your belt scales, providing our customers with the assurance they need.

Tru-Trac follows a quality assurance process for calibrations where data is evaluated and verified to provide the accuracy guarantees on our work.

Tru-Trac offers cost effective and accessible on-site belt scale services to Africa's mining and bulk material handling industry.

MAXIMIZE YOUR BELT SCALE'S PERFORMANCE WITH OUR COMPREHENSIVE SERVICES AND TECHNICAL SUPPORT

1

PREVENTIVE MAINTENANCE

- **Complete System Inspection:** We scrutinize every component for issues to ensure peak performance.
- **Repairs & Calibration:** Necessary repairs are made promptly, concluded with final calibration and certification, all documented for your records.

2

SCALE CALIBRATION

- **Precision Adjustment:** Calibration is conducted using certified weights, calibration chains or by means of material reference.
- **Documentation:** Adjustments and calibrations are meticulously documented, providing you with a Calibration Certificate.

3

DIAGNOSIS AND REPAIR

- **Expert Diagnosis:** We ensure your scale meets all Legal-for Trade requirements through thorough calibration and official sealing. (NRCS Accreditation Pending).
- **Transparent Repair Process:** We discuss the root cause, proceed with repairs, and complete with calibration and certification, as needed.

4

CERTIFICATION

- **Legal Compliance:** We ensure your Scale meets all Legal-for Trade requirements through thorough calibration and official sealing.

5

INSTALLATION

- **Accuracy from the Start:** Precise mechanical installation is crucial, directly impacting your scale's repeatability and accuracy.

6

WEIGHING SERVICES AND WEIGHT STUDIES

- **Tailored Solutions:** Offering a range of services to meet specific operational needs and enhance system accuracy.

CONVEYOR TRAINING

TRU-TRAC® CONVEYOR TRAINING: Empowering Your Team for Excellence

At Tru-Trac®, we believe that offering high-quality products is just the beginning. Ensuring your team knows how to maximize these tools is where real progress begins. Dive deep with our specialized conveyor training modules, designed not only to address the how-tos but also to impart a comprehensive understanding of common conveyor issues and their solutions.

Invest in training that promises more than just theory. With Tru-Trac®, empower your employees to bring innovative and efficient practices back to the heart of your operations.



WHY CHOOSE TRU-TRAC® CONVEYOR TRAINING?

- **Broad Understanding:** Equip your team to identify and correct common conveying challenges.
- **Safety First:** Prioritize and enhance safety protocols in your conveyor operations.
- **Regulatory Compliance:** Stay ahead with practices that meet industry regulations.
- **Boost Productivity:** Learn strategies to ramp up production.
- **Operational Cost-Efficiency:** Drive down operation costs with informed decision making.



COURSES OFFERED INCLUDE:

- Conveyor 101
- Conveyor Maintenance and Safety
- Conveyor Belt Alignment
- Effective Conveyor Cleaning
- Tru-Screw Splicing Training
- Tru-Trac® Product Installation and Maintenance Training courses



TRU-TRAC® ONSITE TRAINING:

Tru-Trac® provides onsite training for its customers in remote areas, ensuring that they receive the same degree of experience and technical competence as those who attend training at the Tru-Trac® training facility at our Head Office in Centurion.

This hands-on training is provided by certified trainers who are sent to a specific area to assist customers in running their plants efficiently and effectively.

ABOUT MOBILE SHOWROOM

The Tru-Trac® Mobile Showroom showcases the full range of Tru-Trac® products

Our mobile showroom is fully equipped with our products and you will be able to handle and inspect our products for both quality and features. Your team will have the opportunity to engage with our conveyor experts and discuss any conveyor related issues that they might be grappling with.



ABOUT CONVEYOR SURVEYS

Tru-Trac® offers comprehensive conveyor system surveys using our proprietary digital Conveyor Audit reporting system. Our technicians conduct holistic audits, providing real-time feedback via email. You'll receive detailed reports, including component condition, performance, photos, maintenance needs, and optimization recommendations.

- Highly experienced and trained technicians conduct our conveyor inspections.
- Conveyor audits are carried out daily at customer sites across the African continent.
- Digital reports are directly distributed to relevant parties.
- Inspection records are stored centrally for easy reference.





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