PROUDLY AUSTRALIAN

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ELPHINSTONE
WEIGHING SYSTEMS
LOGGING TRAILERS
ANTARCTIC EQUIPMENT

50 Years
as leading supplier of Heavy Haulage weighing systems.

HEAVY HAULAGE

WEIGHING SYSTEMS

tca | Type-Approved™
Smart OBM System (Category B)

HEAVY HAULAGE WEIGHING SYSTEMS

Simply drive the machine onto the trailer and move it forwards until the limit light flashes. You then know you have the correct weight on the drive axles.

Revolutionising Load Management for Five Decades:

Why Elphinstone Weighing Systems' Easyweigh® is the Smart Choice for Heavy Haulage.

Since 1976, Elphinstone Weighing Systems has pioneered onboard weighing technology, transforming the landscape of load management for the Australian transport industry. For five decades, our mission has been clear: to deliver precise, reliable, and innovative onboard mass solutions that meet the evolving needs of heavy haulage operators. With the introduction of Easyweigh® in 1989, Elphinstone didn't just raise the bar—we redefined it.

A History of Innovation: Setting the Standard Since 1976

At Elphinstone Weighing Systems, we didn't just enter the weighing game – we revolutionised it here in Australia. Our first onboard weighing system set a new standard for compliance with how heavy vehicles measure and manage loads. The development of Easyweigh® in 1989 was a game-changer, introducing the world's first onboard weighing system to store calibration data within each individual truck and trailer. This groundbreaking feature allows for seamless interchangeability of trucks and trailers, eliminating the need for manual reconfiguration or trailer identification, and significantly boosting efficiency and productivity.

At system start-up, Easyweigh® automatically detects and displays trailers in the correct order, streamlining operations and eliminating errors. This feature significantly reduces the time spent on manual configuration, leading to fewer delays, fewer mistakes, and more time on the road for operators, making your operations more efficient and productive.

A Smart Future: Certified Smart OBM with Spring Suspension Compatibility

Now, in 2025, Elphinstone continues to lead. Our Easyweigh® system is officially type-approved by Transport Certification Australia (TCA) as a Smart OBM (Onboard Mass) system, and it's the only approved onboard weighing system that accurately weighs vehicles fitted with conventional spring suspensions.

Why is that important? Most other Smart OBM systems are limited to air suspension vehicles, excluding a significant portion of the heavy haulage sector. However, Easyweigh® overcomes this limitation by utilising fifth-wheel loadcells to weigh the prime mover directly. This means accurate, reliable mass data for heavy haulage vehicles—regardless of suspension type, ensuring that all vehicles in your fleet can benefit from Easyweigh's advanced weighing capabilities.

This positions Easyweigh® as the ultimate solution for fleets with mixed suspension systems, ensuring operators stay compliant and competitive without needing costly vehicle upgrades.

Whether optimising routes, managing load distribution, or improving

THE ONLY OBM SYSTEM FOR STEEL SPRINGS

fleet utilisation, Easyweigh's data helps streamline every aspect of your transport strategy. By providing a continuous stream of data, Easyweigh's full integration with telematics systems empowers operators to make smarter, faster decisions, leading to reduced operational costs, improved safety, and enhanced fleet performance.

Data-Driven Efficiency with Telematics Integration

In today's data-driven transport landscape, Easyweigh is more than a weighing system — it's a strategic tool. Fully integrable with leading telematics platforms, Easyweigh® delivers critical real-time mass data that helps operators optimise routes, manage load distribution, improve fleet utilisation, reduce fuel consumption, prevent overloading fines, and improve turnaround times. By seamlessly integrating the system, operators gain the ability to make quicker, data-driven decisions—resulting in improved fleet efficiency, lower operating expenses, and greater safety outcomes.

With this powerful information at their fingertips, fleet managers can make informed, faster decisions that cut costs, reduce wear and tear, improve safety and elevate performance across the board. Every load is not just measured — it's managed smarter.

Load with Confidence: Handheld RF and Bluetooth Display Option

For added flexibility during operations, Easyweigh® also supports optional Bluetooth and RF (radio frequency) remote displays, enabling operators to monitor weights from outside the cab during loading. Whether handheld or mounted in a convenient location, it allows for quick weight checks without climbing back into the cab — saving time, improving safety, minimising the risk of overloading and ensuring precise axle loading every time.

Future-Proof Your Fleet with Certified Smart OBM

Choosing the right onboard mass system becomes even more critical as the transport industry evolves with greater digitalisation and stricter regulatory frameworks.

Easyweigh®, with its TCA-approved Smart OBM certification, is a future-ready solution that ensures compliance with current and forthcoming mass management laws. This future-proofing feature provides a sense of security, knowing that you're already prepared when regulations change, giving you peace of mind and a sense of readiness for the future.

With TCA-approved Smart OBM certification, Easyweigh® helps you stay ahead of industry regulations, avoiding costly fines and downtime while maximising your operational efficiency. When regulations change, you're already prepared.

From participation in road access programs to integration into advanced logistics platforms, Smart OBM-certified systems are becoming the new normal.

With Easyweigh®, you're not just compliant — you're leading the pack.

It's not just about measuring mass — it's about maximising it.

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LOADCELLS BUILT FOR PRECISION

Top Left: Elphinstone 1660 Loadcell.
Left: Easyweigh® Multi-Reader.
Above Middle: Elphinstone slave unit with Military grade connectors.
Top Right: Elphinstone Heavy Haulage hydraulic transducer.

Australian Made – Accuracy You Can Trust:

At the core of the Australian designed and precision manufactured Easyweigh® system is the Multi-Reader display unit, a compact yet robust dash-mounted control centre. It can efficiently manage up to 15 separate channels of weighing input, each uniquely linked to a slave unit. These slave units, in turn, are connected to one or more loadcells or transducers across the truck and trailer configuration, ensuring precise and reliable data at all times.

Channel 1, the master unit, acts as the central hub, communicating bidirectionally with all connected slave units. These slave units receive signals from their connected loadcell or transducer, digitally convert them, and transmit the data in real-time to the Multi-Reader screen. This process results in a fast, precise, and comprehensive overview of the vehicle's total and axle specific load conditions, including weight distribution and any potential overloads, visible at a glance.

Mechanically, each channel is an independent system – a combination of loadcells grouped to an axle set or component where the payload transfers its force to the ground. This setup allows the Easyweigh® system to seamlessly accommodate even the most complex trailer setups and configurations.

Elphinstone 1660 Loadcell:
The heavy haulage Easyweigh® system is powered by Elphinstone's renowned 1660 heavy haulage loadcell.

These loadcells are precision engineered from 4340 alloy steel and heat treated to 180,000PSI yield strength, offering exceptional toughness and durability. They deliver industry-leading accuracy, guaranteed to ±1%, even in the harshest conditions.

Elphinstone's Hydraulic transducers are designed and manufactured in-house. They are machined from heat-treated stainless steel and feature a custom strain gauge design specifically suited to Australia's harsh conditions.

Every loadcell undergoes meticulous individual testing and calibration, ensuring the highest level of performance and dependability. This rigorous quality assurance is a hallmark of Elphinstone Engineering's dedication to excellence and the uncompromising reliability their customers have come to expect.

The Easyweigh® system is built with reliability and serviceability in mind, starting with 4-pin Military Style injection-moulded waterproof connectors. These connectors, designed for optimal environmental sealing and long-term resilience, ensure that the system operates effectively even in high-moisture or high-dust conditions. The Elphinstone cable is custom manufactured in Australia featuring 4-cores wrapped in a tough polyurethane jacket, providing exceptional protection and electrical accuracy in high-vibration applications. The system has built-in diagnostic indicator lights that allow for rapid fault detection and troubleshooting, reducing downtime and simplifying maintenance.

Fast Diagnostics. Smart Support.
In a demanding industry, like heavy haulage where downtime is not an option. That's why the Easyweigh® system comes equipped with diagnostic lights—providing clear indicators for fast troubleshooting and minimising operational disruptions. Whether you're on a long haul across Australia or loading equipment in a remote region, you can count on Elphinstone's extensive nationwide support network to back you up when it matters most, no matter where your journey takes you.

Nationwide Support – Wherever the Road Takes You
Elphinstone Engineering's commitment doesn't stop at delivery. With a trusted nationwide support network, Easyweigh® users are backed by over five decades of industry expertise and innovation. From installation to calibration, support, and spares, Elphinstone ensures your operations keep moving with confidence.

Smart. Scalable. Seamless.

TURNTABLE SLIDER BUILT FOR ENDURANCE

Elphinstone Engineering Turntable Slider:
Built for Precision, Engineered for Endurance.

Since 1985, Elphinstone Engineering's Turntable Slider has set the benchmark for reliability, performance, and innovative engineering in heavy haulage. Designed to thrive in the most demanding transport environments, this slider is the result of four decades of continual refinement and real-world testing. Today, it remains the go-to choice for operators seeking a rugged, low-maintenance solution that delivers consistent, safe, and accurate load distribution every time.

Engineered for Excellence

From its inception, the Elphinstone Turntable Slider was developed with a singular vision: to create an ultra-durable, lightweight, and highly functional component that could withstand the brutal conditions of Australian heavy haulage. Precision-crafted using high-grade materials and manufactured with cutting-edge CNC machining techniques, the current model reflects a legacy of innovation—refined, streamlined, and built to last.

At just 229kg, this lightweight workhorse is a masterclass in engineering efficiency. Despite its low profile of only 20mm, it boasts models with D-Ratings of 200kN and 270kN along with options for 500mm through to 1300mm of travel – providing unrivalled flexibility in load balancing and trailer handling.

Adjustable Under Load

The Elphinstone Turntable Slider's standout feature is its ability to adjust the turntable position even when fully loaded. This unique capability is a game-changer for transport operators, allowing on-the-fly load redistribution without downtime—boosting efficiency, safety, and operational control on the road and in the yard.

Low Maintenance, High Performance

Ease of maintenance has always been a cornerstone of Elphinstone's design philosophy. The slider is equipped with replaceable Nylon slides, which significantly reduce service downtime and wear on structural components, ensuring smoother operation, lower running costs, and longer service intervals without compromising performance.

Tailored to Your Fleet

Versatility is built into the DNA of the Elphinstone Turntable Slider. It's suitable for both low-height and standard ballraces, as well as fixed turntables. With a range of options, including different drill patterns to suit various chassis widths and the choice of solenoid or direct air activation valves, this slider integrates seamlessly into virtually any fleet configuration.

Safety and Efficiency Built-In

Every Elphinstone Turntable Slider is supplied fully pre-assembled and adjusted, ready to install and perform from the outset. A spring-loaded safety latch ensures positive engagement, delivering confidence in every coupling situation—crucial for the unpredictable environments of heavy transport.

A Smart Investment for Heavy Haulage Operators

The Elphinstone Turntable Slider represents a smart, future-ready investment. With its long service life, low tare weight, and unparalleled adjustability, it ensures a genuine return on investment by increasing fleet productivity, load control, and on-road safety, providing you with a sense of security about your investment.

Built tough. Built smart. Built by Elphinstone.

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FOR ALL BRANDS AND MODELS OF TURNTABLES

Weighing Systems for all brands and models of turntables

Fixed Base Plate

Ballrace Turntable

Optional Extras

Limit light

Limit light mounted on rear of prime mover.

Remote Display

The remote display can be mounted in the cabin or externally for spotters, making it a valuable tool for loading and weight monitoring.

Elphinstone EasyView™

Elphinstone EasyView™ allows you to wirelessly access the range of Elphinstone Scale Indicators using your smartphone or tablet.

Printer

The optional remote printer offers operators immediate, on-the-spot access to printed weight records to provide verifiable documentation.

Easyweigh® radio remote

Reliable UHF radio remote communication 300 Meters+.

Easyweigh® Multi-Reader

User friendly display with four lines of text displaying multiple channels and grand total on one screen.

CUTTING EDGE MANUFACTURING

Expert Design & Engineering

At the heart of Elphinstone Engineering's success lies its highly skilled design and engineering team. Each product begins with an intelligent, practical design—tailored to meet the tough demands of the Australian transport industry. Whether developing their renowned Easyweigh® onboard weighing systems or durable turntable sliders, Elphinstone's engineers combine decades of industry knowledge with real-world insight from drivers and fleet operators.

Elphinstone's design philosophy is rooted in practical performance: creating components that are easy to install, simple to maintain, and highly accurate. Their engineers use state-of-the-art 3D CAD modelling software to develop and refine their systems, ensuring every part fits precisely and performs flawlessly in demanding conditions.

Cutting-Edge Manufacturing with CNC Precision

The Triabunna manufacturing facility is equipped with the latest CNC machining centres. These machines provide unmatched precision and repeatability, allowing Elphinstone to manufacture high-tolerance components to exact specifications. Whether machining 4340 alloy steel for their 1660 loadcells or fabricating lightweight yet strong turntable sliders, CNC technology ensures every component meets strict quality standards.

In addition to CNC machining, Elphinstone's skilled tradespeople use advanced fabrication techniques and quality control procedures throughout the production process. Every part is meticulously inspected, tested, and refined—resulting in equipment that stands the test of time.

A Smart Investment for Heavy Haulage Operators

Choosing Elphinstone Engineering's weighing systems and turntable sliders means choosing reliability, precision, and local expertise. Our products are designed and manufactured in-house, ensuring Australian-Made Quality and a deep understanding of the local transport industry.

- **Unmatched Accuracy** – Easyweigh® systems are Smart OBM approved and provide dependable mass readings even on steel spring suspensions.
- **Durability by Design** – Components like the 229kg Turntable Slider are not just engineered for strength, but also for low height and ease of use, ensuring a long-lasting investment for heavy haulage operators.
- **Seamless Integration** – Systems are designed to work interchangeably across different trailers and trucks, reducing downtime and simplifying fleet operations.
- **Ongoing Support** – As a family-owned business, Elphinstone offers friendly, knowledgeable customer service that larger companies can't match.

With five decades of proven performance, cutting-edge technology, and a dedication to quality, Elphinstone Engineering is the smart choice for anyone serious about heavy haulage equipment. From the rugged bush tracks of Tasmania to major infrastructure projects across Australia, Elphinstone products continue to deliver where it matters most—**on the road**.

Specifications subject to change without notice

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WHY HEAVY HAULAGE OPERATORS CHOOSE EASYWEIGH®

- **OBM Type Approved —** for both spring and air suspensions
- **Fifth-Wheel Loadcell Accuracy —** true mass data from the source
- **Trailer Auto-Detection —** no pairing, no hassle
- **RF Remote Display Option —** stay in control from the ground
- **Telematics Integration —** real-time mass data for better logistics
- **Future-Proof Compliance —** be ready for evolving regulations

Future-Proofing Operations

As the transport industry strides towards greater digitalisation and regulation, systems like Easyweigh® are the key to staying ahead of the game. By embracing TCA-certified Smart OBM systems, companies can future-proof their operations against evolving regulatory requirements. This ensures they can continue to operate efficiently and legally, even as rules change, providing a sense of security and preparedness.

Elphinstone Easyweigh® is designed with user convenience in mind. It stores calibration data for each truck and trailer, allowing easy interchangeability without needing adjustments or trailer identification.

A Bluetooth or optional RF (radio frequency) remote allows the display to be carried in hand or positioned in a suitable location while the trailer is loaded. The Elphinstone Easyweigh® system is designed to be used with relevant telematics schemes, unlocking a range of productivity and access benefits road authorities offer through the National Telematics Framework. This integration not only empowers you with the tools to optimise your operations but also ensures that you can take full advantage of the benefits offered by telematics schemes, thereby staying ahead of the competition.

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