



NMI Legal-for-Trade Weighbridge

Titan Weighbridge.

Concrete & Steel Deck



www.nwigroup.com.au

www.nwiweighbridges.com.au

**World-class precision,
locally delivered.**

INTRODUCTION

The Titan Steel & Concrete Weighbridge is a robust and durable truck scale, making it ideal for applications with heavy loads or high traffic.

The Titan is available as an above-ground or in-ground configuration, working with your individual site space availability and requirements.

STRUCTURE

A fully welded universal beam structure with horizontal supports along the length of the weighbridge deck to avoid twisting.

Ideal for both permanent and temporary installations thanks to its modular deck design.

Each modular deck uses only 4 or 6 loadcells, reducing both electronic liability and out of warranty maintenance costs.

Available in both painted steel or hot dip galvanised steel.

Engineered, designed and manufactured in Australia using Australian made steel, the Titan meets all relevant Australian standards.



CONFIGURATION OPTIONS

The Titan Concrete & Steel Deck Weighbridge is available as an above-ground or in-ground configuration.

IN-GROUND/SEMI-INGROUND WEIGHBRIDGE

- Fully in-ground weighbridges are flush with the ground and provide a level weighing surface, and take up the less site space.
- Easy access to the load cells must be considered in the planning of an in-ground weighbridge. Access holes must be included in the deck or to the side of the deck, as part of the foundation design.
- Another factor to consider when planning is drainage. A sump or a drainage pump must be included in the design in the most appropriate position for the site.

BENEFITS

- Ease of service – accessible loadcells and components
- Space saving – Ideal if site space is limited
- Cost effective – No need for approach/exit ramps



INSTALLATION & CONFIGURATIONS

CONCRETE ABOVE GROUND WEIGHBRIDGE

- An above ground Titan Weighbridge must provide a minimum of 150mm clearance under the lowest active part of the weighing platforms.
- A concrete base between the loadcell supports that is at least 75mm thick, with effective drainage to keep from water, mud, and debris accumulating.
- The Titan must have sufficient clearance from the external edges of the platform for servicing, maintenance and drainage.

BENEFITS

Available in multi-deck design to record the weight of each axle group

Concrete weighbridges have a great longevity, provided the concrete is prepared correctly (vibrated and cured and the steel reinforcement is correctly positioned).



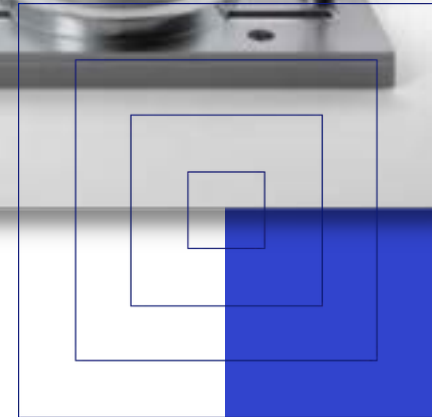
LOADCELLS

NWI Group harnesses the power of advanced technology through fully digital components, live monitoring systems and cloud-based software, bringing you the smartest, most advanced truck scales on the market. CPD Digital, powered by Bilanciai Nexia, takes weighing to the next level.

ADVANTAGES

- **DATA** - CPD-M Digital load cells house a nexus of information, allowing for continuous monitoring of temperature, voltage, inclination and many other variables sent directly to the cloud.
- **ACCURACY** - Deliver optimized weighing results in less than a hundredth of a second and at small increment measurements – twice the precision of analog scales.
- **MONITORING** - The core of CPD Digital is Nexia, NWI Group's live monitoring software. Nexia analyzes data and reports information into trends and scale performance, providing better insight into your scales.
- **ACCESS** - With portal access from anywhere, you can rely on CPD Digital information to be there when you need it most.

CPD
DIGITAL



LOADCELLS



MAXIMISE UPTIME

- **SERVICE ALERTS** - Automated preventative maintenance service alerts notify you before a problem occurs.
- **ENVIRONMENTALLY SOUND** - Hermetically sealed stainless steel construction protects your electronics through harsh environmental conditions.
- **TEMPERATURE COMPENSATION** - Instantly compensate for fluctuation in temperature.
- **LIGHTNING PROTECTION** - Guaranteed protection with components specifically designed to survive lightning strike.

OPTIMIZE YOUR OPERATION

In a world where technology is constantly advancing and your scale doubles as a cash register, CPD Digital technology, powered by Bilanciai Nexia, empowers you with the smartest truck scales.



MINIMIZE DOWNTIME

- **DUAL CALIBRATION STORAGE** - Automated preventative maintenance service alerts notify you before a problem occurs.
- **INDEPENDENT LOAD CELL CONFIGURATION** - Pinpoint errors with accuracy down each individual load cell.
- **SERVICE ALERTS** - Automated service alerts notify you when a problem occurs.
- **ERROR INFORMATION** - Service providers are armed with the information they need to show up prepared with the proper parts and tools.
- **TROUBLESHOOTING GUIDANCE** - Enables faster repair times with suggested fixes derived from years of experience and thousands of repairs.

BENEFITS OF MULTI-DECK WEIGHBRIDGE FOR FASTER WEIGHING

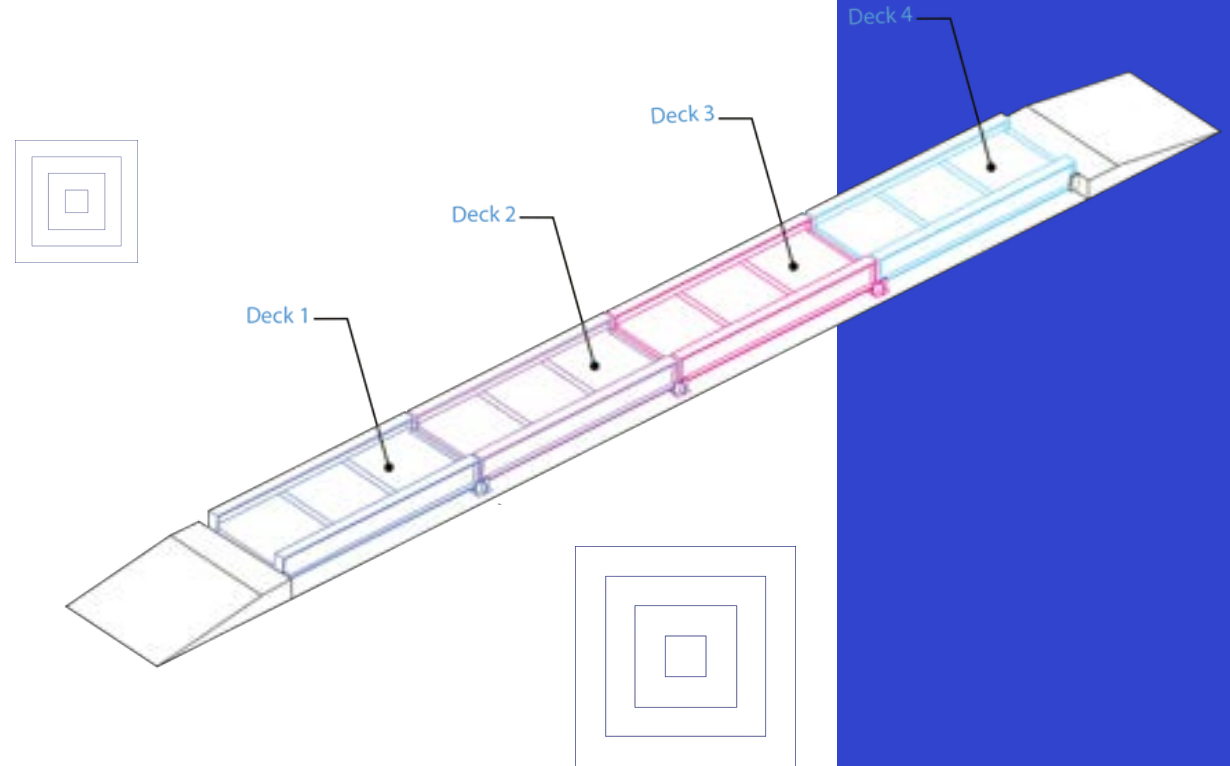
NWI Group's latest Titan weighbridge design highlights the company's continued innovation in the development of legal for trade vehicle weighing equipment, gained from extensive experience and consultation with industry over the past two decades.

IMPROVED RELIABILITY

Multi-deck weighbridges can provide greater accuracy and reliability in weighing, as each platform can be calibrated and maintained independently. This ensures that the weight readings are as accurate as possible, reducing the risk of errors and ensuring compliance with regulatory requirements.

FASTER WEIGHING PROCESS

Another major benefit of multi-deck weighbridge configurations is that they allow for faster weighing operations. With multiple platforms, vehicles can be weighed simultaneously, reducing the time needed to weigh each vehicle and improving overall efficiency. This can be especially beneficial for high-volume weighing operations, such as those in the transportation or logistics industries.



COR COMPLIANCE

With CoR (Chain of Responsibility) becoming increasingly more important for drivers and companies to monitor, NWI Group have developed their Titan Weighbridge as a simple modular design that allows for a cost effective multi-deck configuration that is trade approved so a complete truck can be weighed at the same time as it's axle group weights for CoR compliance.

WEIGHBRIDGE SERVICING AND CALIBRATION

NWI Group are one of Australia's leading specialists in weighbridge and heavy industrial equipment calibration. With locations all over Australia, we're able to help with difficult applications wherever you are.

To maintain accurate and reliable weighing results, it's essential to periodically test your vehicle scale in accordance with the manufacturer's specifications and industry and legal standards. By using NWI to attain your calibration certificates, you'll have access to a documented record of compliance, ensuring that you meet all necessary regulatory requirements.

WEIGHBRIDGE UPGRADES

Our Weighbridge Upgrade Services offer a cost-effective way to increase the longevity and performance of your existing vehicle scale. We'll inspect your scale to assess if upgrading or repairing damaged components and upgrading electronics is a feasible and cost-efficient option for you.

We'll provide you with a comprehensive analysis of the work that needs to be performed and an objective assessment of the costs involved. By considering upgrading and repairing damaged components rather than investing in a new scale, you can save money while still improving the performance and longevity of your weighing system.



GALVANIZING PROCESS

At NWI Group, we use a refined and enhanced galvanizing process for all our weighbridge steel constructions. This process is the best way to protect steel and ensure long-lasting, corrosion-free performance. Galvanized steel is more cost-effective than materials like stainless steel and aluminum, making it an excellent choice for those looking for a low life cycle cost. Additionally, once installed, galvanized steel requires little to no coating maintenance.

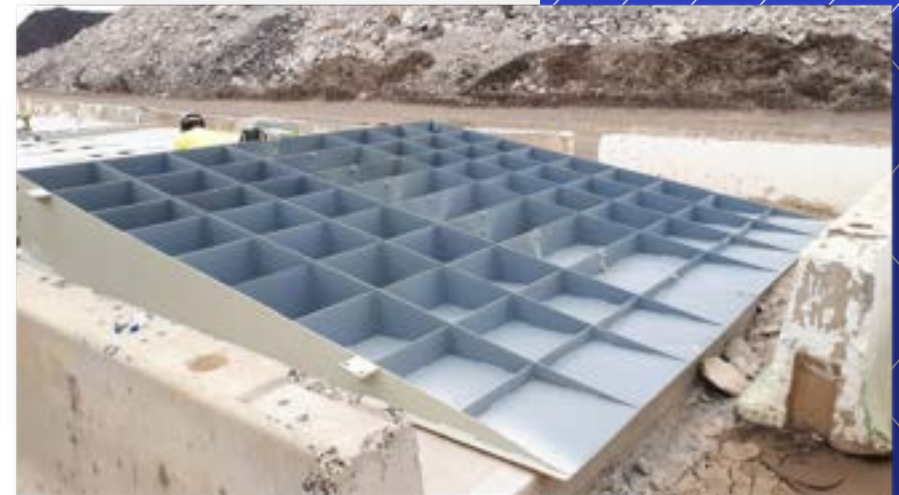
Our proprietary galvanizing process uses a formulation of molten metals that produces a consistent coating thickness and creates an even and durable finish. As part of our four-step hot-dipped galvanizing process, we meet Australian Standard AS4680 requirements to deliver high-quality zinc coatings on ferrous materials.



CORROSION PROTECTION

Hot-dip galvanizing is widely used because of its dual protective nature. The coating provides a tough, metallurgically bonded zinc layer that acts as a barrier, completely covering the steel surface and sealing it from environmental corrosion.

Furthermore, the sacrificial action of zinc offers protection to the steel even in cases of minor coating damage or discontinuity.



WEIGHBRIDGE AUTOMATION

As regulations change in Australia, the demand for weighbridges across multiple industries is increased.

A Trade Approved Automated Weighbridge system will help your company to meet all Chain of Responsibility & trade legislation laws that may be required. Not only this, but an Automated Weighbridge system can also completely streamline your day-to-day site workflow.

At NWI we specialize in the design and installation of comprehensive weighbridge automation systems. Our solutions are personally tailored for every client and to every unique set of requirements, and our experts are here to help recommend you on the best hardware and software choices for your automated weighbridge construction.



AUTOMATION & ACCESSORIES



Traffic Lights



Remote/Variable Displays



Boom Gates



Self Service Driver Terminals



Weighbridge, Data and Site Traffic Management Software



Intercom Systems



LPR (License Plate Recognition) Cameras



Docket Printers



Walkways & Platforms

AUTOMATION REVOLUTIONIZES WEIGHING

At NWI Group, we're committed to providing innovative solutions that help our customers improve their operations. Contact us today to learn more about our weighbridge automation accessories and how we can help you automate and streamline your weighing process.



**Weighing
Instrumentation
Systems
Fabrication
Calibration**

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