

December 2022 Case Study: New Weighbridge Installation for Kalbarri Mine Site



OVERVIEW

NWI Group successfully completed an unmanned and automated weighbridge project for a prominent mine site in Kalbarri, Western Australia. The project involved the implementation of a Titan Weighbridge construction, operated by a Bilanciai DD2050 Weighing Terminal, and connected to the FlexPoint WinWeigh Mine & Quarry Software package. This advanced system allowed the weighbridge to provide accurate group axle weighs and a total gross weight, all while operating in an unattended configuration.



CHALLENGES

Remote Location: The mine site in Kalbarri presented a logistical challenge due to its remote location, located seven hours away from Perth. This meant that transporting equipment, personnel, and ensuring timely support and maintenance would require careful planning and coordination.

To address the remote location challenge, NWI Group assigned a WA Service Technician and our Project Manager to oversee the installation. They traveled to Kalbarri to ensure a smooth implementation process and provide on-site support.

Unattended Configuration: Implementing an unattended weighbridge configuration required integrating automated systems and software, ensuring they worked seamlessly to accurately measure and record weights. Overcoming technical challenges and potential software compatibility issues were critical to the success of the project.

OUTCOME

The unmanned and automated weighbridge project in Kalbarri, WA, was a resounding success. The implementation of the Titan Weighbridge construction, combined with the Bilanciai DD2050 Weighing Terminal and FlexPoint WinWeigh Mine & Quarry Software, enabled accurate and efficient weight measurements in an unattended configuration.

SOLUTION

NWI Group proposed the Titan Weighbridge construction as the optimal solution for the site. The weighbridge was equipped with the Bilanciai DD2050 Weighing Terminal which was then connected to the FlexPoint WinWeigh Mine & Quarry Software package, enabling advanced functionality such as group axle weighing and total gross weight calculation.

Despite the logistical challenges posed by the remote location, the completion of this project showcased NWI Group's expertise in delivering innovative solutions even in challenging environments. The mine site in Kalbarri can now benefit from the advanced capabilities of the unmanned weighbridge, improving operational efficiency and accuracy in weighing processes.

