WEIGHWELL
TRAIN WEIGHING SPECIALISTS

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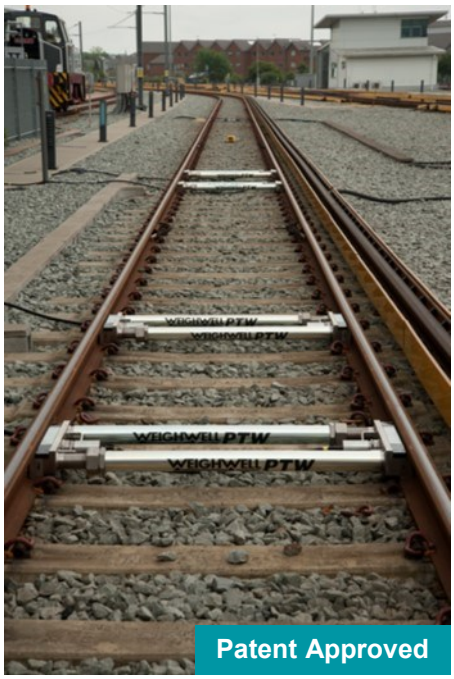
PTW 500-VB2X and 500-VB3X



STATIC, INDIVIDUAL WHEEL WEIGHT, TRAIN WEIGHING SYSTEM

Weighwell Engineering Ltd were the first company to provide portable train weighing systems. Today with over 28 years experience and knowledge we continue to be the industry leaders with 100's of systems worldwide.

The PTW 500-VB2X and 500-VB3X provides an accurate and advanced solution for wheel balancing. Once installed, our PTW and ptwX software gives the user the weight data for individual wheels, axles and railcars to establish if weight distribution is even.

The PTW 500-VB2X and 500-VB3X is an ideal innovative solution for weighing a complete vehicle. The advantage of weighing a complete vehicle with multiple systems is that it helps in reducing maintenance depot costs whilst increasing rail safety.

KEY BENEFITS OF THE PTW 500-VB2X AND 500-VB3X SYSTEM

- Ideal for 2x2 and 2x3 axle bogies with a maximum weight capacity of 120000kg and 180000kg.
- A key interface with our industry leading ptwX software.
- Vehicles weighed statically in real time, providing excellent accuracy and unrivalled flexibility.
- Portable, quick and easy to install.
- The rail industries favourite for vehicle modifications and bogie changes.
- Factory pre-calibration eliminates the need for transportation of test weights or calibrated wagons.
- Achievable accuracy of 0.1% dependent on operating conditions.

Our PTW allows for greater flexibility which is fundamental when installing multiple systems. The benefits of this are:

- **No need to remove clips or rail fastenings**
- **Convenient installation**
- **More reliable weighing**
- **The lightest PTW in the world**

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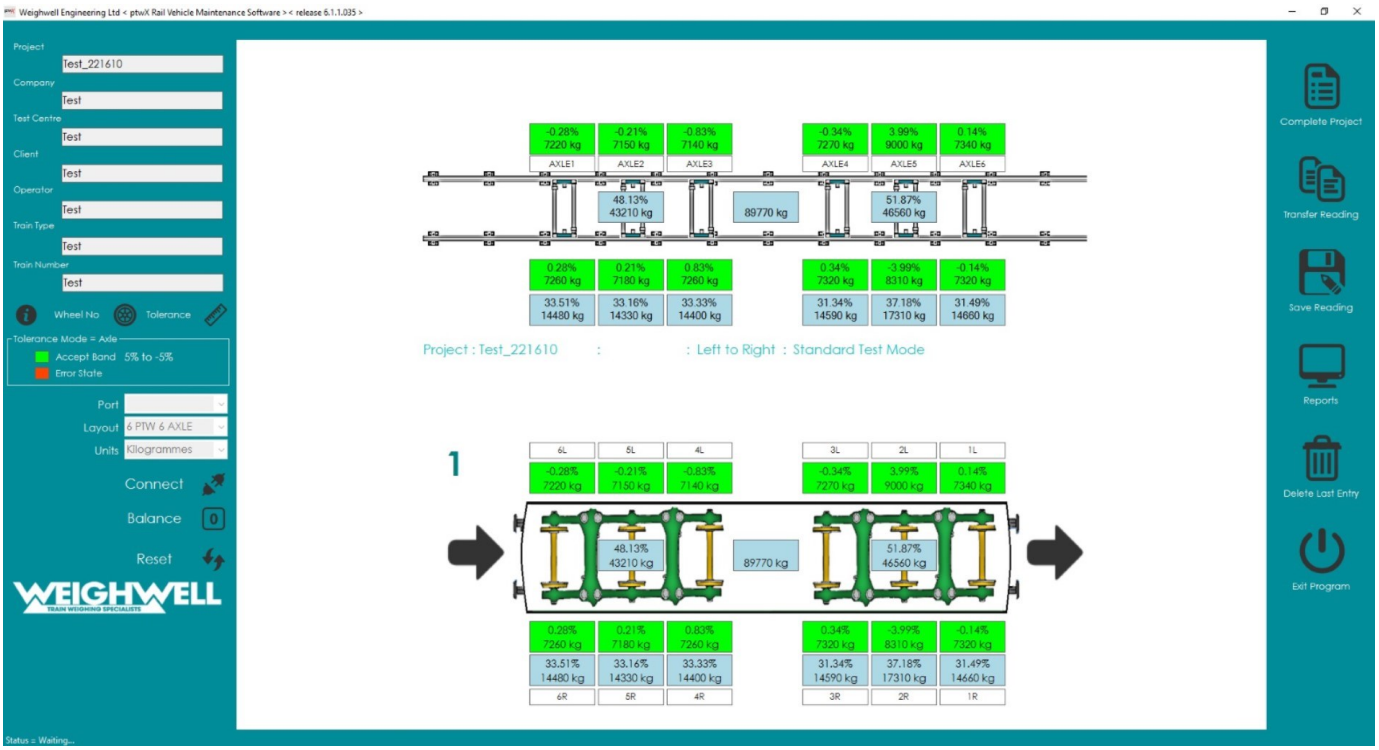
PTW 500-VB2X and 500-VB3X

IN-HOUSE, INTUATIVE, MULTILINGUAL SOFTWARE FOR TRAIN WEIGHING SYSTEMS

All our PTW 500-VB2X and PTW 500-VB3X systems operate using our ptwX software which uses our expert knowledge in engineering and provides our customers with a greater understanding of potential issues relating to an imbalance of weight.

The importance of weighing a total vehicle with multiple systems is that results are instantaneous and with the whole carriage/railcar level there is no distortion in gradient (only a couple of millimetres can alter the weighing result by up to a quarter of a tonne). This resolves the previous trial and error approach, providing a safer and more cost effective solution.



Our intuitive, multilingual ptwX software is designed and developed in-house and provides real time 'live' displays. Multiple customisations such as weighing units and information on weight differentials are also available. Our easy to use software also allows for fully customised reporting options to be selected with the ability for reports to be exported in standard formats such as pdf and csv.

Our software is ideal for bogies as it can graphically display unbalanced wheel loads (with increment sizes of 10kg), which if not rectified can give rise to dynamic instabilities or incorrect levelling, causing issues such as:

- Potential for derailment (if delta Q is greater than 0.6).
- Risk of side swiping and issues relating to kinematic gauge.
- Issues with bogie to body connections (which relates to inflation and deflation).

*The PTW is not trade approved and specifications subject to change.