

# Accuracy and Calibration

**Accuracy**  
 Typically, the main error in train weighing applications is from track and rolling stock conditions. Our research has shown that in-situ components of weighbridges error can range from 0.1% to 0.5%. The Trackweigh loadcells have an accuracy of better than +/-1%.

**Best site conditions can achieve:**

- Class 0.2 train weighing
- Class 0.5 wagon weighing

**Typical site conditions achieve:**

- Class 0.5 train weighing
- Class 2.0 wagon weighing

**Worst site conditions achieve:**

- Class 1.0 or 2.0 train weighing
- No wagon accuracy class rating (typically due to poor wagon coupling)

**Calibration**  
 There are Several methods of calibrating the Trackweigh system

**Static Calibration**  
 A static calibration frame and associated instruments are provided with some systems. The static calibration does not include the dynamic effects associated with weighing a train in-motion.

**Test Train Calibration**  
 The method is required for trade approved systems and involves using a test train with known wagon weights as a reference. It is the most accurate method of calibration , and can achieve an accuracy of +/- 0.2%.

**Cross-reference**  
 This method involves comparison of the system output with other weighbridges, weightometers, bin systems etc.



10 Hereford Street, Berkeley Vale NSW • PO Box 5010, Chittaway NSW 2261  
 Telephone: +61 (0)2 4389 6191 • Facsimile: +61 (0)2 4389 6199 • Email: info@hmagroup.com.au  
[www.hmagroup.com.au](http://www.hmagroup.com.au)



## In-Motion Train Weighing – Product Information

HMA GROUP OF COMPANIES



AUSTRALIA > WYONG • SYDNEY • MELBOURNE • MORWELL • PERTH • BRISBANE • MACKAY • GLADSTONE • TOWNSVILLE • ADELAIDE  
 NEW ZEALAND > HAMILTON • WELLINGTON

