

# INFINITY

## LOW OR HIGH SPEED WEIGHING SYSTEM



### **INFINITY LS - Low Speed weighing up to 15km/h:**

The Weigh In Motion Infinity – LS weighbridge system is the ideal low speed (up to 15kmh) solution for mine loadouts, industrial plants, cement plant, power stations, steel mills etc. It consists of 2 electronic weigh sleepers & 4 dummy sleepers braced together forming one solid structure, including accessories, control cabinet and a PC with train weighing software.

The Infinity – LS train weighing system is installed one wagon length or more out from the loadout and provides the operator axle, bogie and wagon weight data in real time. This unique train weighing system enables the loading operator to regulate the filling so that the wagons are not overloaded. Weight data storage, printout & other features are available and train weighing results can be accessed from any location via the internet.

Installation of the Infinity - LS train weighing system takes approximately 1 ~ 2 days. Concrete foundation or civil works are not always required. However, this is greatly dependent upon site conditions, although some form of ballast stabilisation is highly recommended to eliminate impact effects at the weighing transition points to ensure weighing accuracy and scale reliability.

### **INFINITY HS - High Speed weighing up to 80km/h:**

The High-Speed Weigh In Motion Infinity - HS is capable of train weighing up to 80kmh, dependent on track/site conditions, test train/rolling stock. The rail weighing system consists of 6 electronic weigh sleepers & 12 dummy sleepers braced together forming one solid structure, including accessories, control cabinet and a PC with train weighing software. Train weighing results can be accessed from any location via the internet

Installation of the Infinity - HS train weighing system takes approximately 2 ~ 3 days. Concrete foundation or civil works are not always required; however, this is greatly dependent upon site conditions. Whilst the unique engineering of the steel framework further enhances the overall stability and load distribution of the high speed weighing system, it is highly recommended that some form of ballast stabilisation is also installed to eliminate impact effects at the weighing transition points to ensure weighing accuracy and scale reliability.



### **BENEFITS:**

- **Actual reliable load cell based system**
- **No rail cutting, welding or grinding required**
- **Minimal installation / repair track down time**
- **30 minutes to change parts**
- **Temperature compensated**

# INFINITY

## TECHNICAL DATA

**LS**  
LOW SPEED  
= 0.1 to 15km/h  
(0.06 to 9 mph)

**MS**  
MEDIUM SPEED  
= 0.1 to 40km/h  
(0.06 to 25 mph)

**HS**  
HIGH SPEED  
= 0.1 to 80km/h  
(0.06 to 50 mph)

Capacity: 37.5t per Axle  
(Can be upgraded to 50t per Axle)

Accuracy: +/- 0.25% - 2% wagon approx.  
+/- 0.25% - 0.5% total train approx.

Operating Temp: -10°C - + 80°C (in-track equipment only).

Transit Speed: Unlimited (Approval by rail authority)

Voltage: 24V DC / 110V - 250V AC

Data Trans: TCP / IP

NOTE: Accuracies and speeds are subject to site conditions.



Installation of INFINITY 'LS' weighing system in straight track



Installation of INFINITY 'LS' weighing system in curved track



Installed INFINITY 'HS' weighing system



Installed INFINITY 'HS' weighing system with (optional) tag readers

## INFINITY OVERVIEW

- ✓ Low, Medium & High speed weighing
- ✓ Reliable load cell based system
- ✓ Can be installed in a curved track\*
- ✓ No rail cutting, welding or grinding required
- ✓ Approximately 30 minutes to change parts
- ✓ Temperature compensated

\* up to 5km/h



Instructional Video

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