

# INFINITY LOW OR HIGH SPEED WEIGHING SYSTEM



## INFINITY LS - Low Speed weighing up to 10 mph:

The Weigh Sleeper In Motion Infinity – LS weighbridge system is the ideal low speed (up to 10mph) solution for mine loadouts, industrial plants, cement, power stations, steel mills etc. It consists of 2 electronic weigh ties & 4 dummy ties braced together forming one solid structure, including accessories, control cabinet and PC train weighing software.

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

Installation of the Infinity - LS train weighing system takes approximately 1 ~ 2 days, dependant upon your accuracy requirements a concrete foundation (or a pre-cast slab) may need to be considered, however this is greatly dependent upon site conditions, 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 50 mph:

The High-Speed Weigh In Motion Infinity - HS is capable of train weighing up to 50mph, dependent on track/site conditions, test train/rolling stock. The rail weighing system consists of 6 electronic weigh ties & 14 dummy ties braced together forming one solid structure, including accessories, control cabinet and PC 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. 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.



### **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 10 mph

**MS**  
MEDIUM SPEED = 0.1 to 25 mph

**HS**  
HIGH SPEED = 0.1 to 50 mph

Capacity: 80,000lbs per Axle  
(Can be upgraded to 110,000lbs per Axle)

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

Operating Temp: +10°F to 160°F (in-track equipment only).

Transit Speed: Unlimited (Approval by rail authority)

Voltage: 24V DC / 110V - 240V 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