



Weigh - in - Motion

Vehicle Scales

With today's ever-increasing need to do more with less, Cardinal in-motion vehicle scales offer a means of increasing the capacity of your weigh stations by identifying overweight trucks that should be weighed statically.



High-Speed Weighing

Cardinal's QWIM series of in-motion scales utilize quartz sensors embedded in the roadway to weigh vehicles at speeds in excess of 80 mph (130 km/h). The sensors are only 2 inches in width and have an IP-67 protection rating.

Available in either a single or dual sensor configuration, the QWIM can be installed in less than a day. The QWIM is an ideal choice for sorting vehicles at highway speeds.

Mid-Range Speed Weighing

The Cardinal SWIM series of in-motion scales is a load cell based system using a single platform supported by four 50,000 lb (23,000 kg) stainless steel Cardinal compression load cells. The rugged steel construction and excellent performance make the SWIM an ideal choice for slower speed applications.

Keep Traffic Moving

**WEIGH
STATION**



Whether your need is for identifying over weight vehicles on the mainline, sorting vehicles entering a weigh station or mainline data collection, Cardinal has the Weigh-In-Motion scale that will keep your traffic moving. Custom systems include comprehensive and flexible software packages that provide virtually any function associated with enforcement weighing.

Both Cardinal QWIM and SWIM in-motion scales provide:

- Individual axle and axle group weights
- Vehicle gross weight
- Axle spacing
- Vehicle classification
- Vehicle speed
- Meet or exceed ASTM 1318E Type III performance

Available options include:

- Off-scale sensing
- Auto Calibration when coupled to a static scale
- Over-height detection
- Vehicle identification
- License plate and USDOT Readers
- Automatic and manual traffic control
- Day / night cameras for image capture

Cardinal's staff of engineering and software professionals are available for the design of a complete commercial weight enforcement and monitoring system while Cardinal service technicians standby for rapid response if the need arises.



Static Truck Scales

Cardinal's complete line of proven single and multiple platform static vehicle scales complete the weight enforcement package. Available in either low profile or pit installations with your choice of analog strain gauge, hydraulic or digital load cell monitoring systems, these high capacity heavy duty scales provide the ultimate in performance and durability. These scales and load cells are designed and manufactured in the US by a family-owned company.



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