advanced train weighing systems
Established over fifty years ago, Railweight is part of Avery Weigh-Tronix, one of the world’s leading weighing companies.

Our specialist team develops solutions for all rail users, from train manufacturers and raw material producers to end users and infrastructure developers. You’ll find our systems in action in almost every industry connected to rail networks.

As every system is bespoke, you benefit from a package that’s exactly right for your application. Our innovative technology allows us to create solutions which take a different approach than traditional, more costly methods. The results show through clearly on your balance sheet in low lifecycle costs and a short payback time.

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Putting you in control

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Any train, any line, anywhere in the world

With total worldwide service, design, manufacturing, installation and support, we can tackle any challenge, anywhere in the world. Whether you are upgrading your system, converting a static rail weighbridge to dynamic weighing or starting right from the beginning, the Railweight team can put a custom system in place with minimal disruption to normal traffic.
Why use weighing in rail applications?

Weighing is crucial to cost control and safety in virtually every aspect of rail operation, from monitoring product deliveries to avoiding overloading penalties. Some of the principle reasons for weighing rail cars include:

- Transaction purposes to invoice clients for the amount of product shipped or, as a customer, to ensure your shipper isn’t overcharging
- To determine the mass of wagons in order to collect freight revenue from shippers
- To avoid overloading, which can damage wagons and infrastructure, and eccentric loading, which can lead to derailments
- For asset management to minimize high impact loads, especially at track discontinuities like track joints, turnouts or crossings
- To ensure any leakage of hazardous cargo is detected immediately upon arrival at the distribution depot
- For chemical applications, as our systems don’t have any foundations or cavities to trap heavier than air explosive gases
- For load control to adjust the material flow parameters during automatic bulk loading to maximize the payload without overloading
- For production control in batching applications such as charging the furnaces producing coke to make iron
- For balancing purposes at locomotive manufacturer and repairer workshops in order to achieve optimum traction through weight distribution
Flexible technology for a perfect fit

Since each customer’s need is different, our expert team combines our products into tailor-made solutions that are just right for the application. Using a combination of the key system elements listed below, we can provide solutions for every application and budget.

The **TSR4000** is our most advanced weight indicator. It is used for high speed, in-motion weighing, up to 80 kilometres per hour. It is highly accurate (to 0.2%) and trade approved for European markets which enables the data captured to be used for invoicing purposes. The TSR4000 can also be used in industrial applications for accurate checkweighing and for health and safety.

The **XL100** is a simpler, more cost effective indicator option for low speed or static applications. It is not trade approved but is ideal for checkweighing, general maintenance work and ensuring health and safety standards.

**Load-Line** is our PC-based indicator system, focused on wheel loading for load out control or workshops. It is primarily used for static applications and can be integrated directly into a customer’s PLC.

**Weighline** rail transducers are OIML-approved and can be paired with any of the weight indicators in our range. Weighline’s effective yet simple design can be installed in hours rather than weeks, ensuring minimal disruption to your operations.
The **X-Line rail transducers** are available in a bolt on configuration for non-trade approved applications. By fitting into the web of an existing rail and connecting to the XL-100 indicator, X Line is a lower investment option and quicker to install, adding up to low through-life costs. It is reliable and extremely durable, with no contact between the load and the sensors, meaning less maintenance requirements.

Lightweight and portable, even one person can install and relocate the equipment from one site to another.

**Automatic Vehicle Identification (AVI)** systems can also be integrated into the solution to automatically recognize vehicles. This enables you to monitor your entire wagon fleet and product movement on an individual wagon basis.

Our **I-Line software** captures data from the weighing indicators and archives it. Using this package, custom reports can be created about the train, including wheel loads, axle loads, train consist, tare, gross, net and wagon type. I-Line can also flag overloads, over speed and wagon imbalance, both side-to-side and end-to-end.
An ongoing partnership

The Railweight team recognizes that a customer’s weighing needs go far beyond developing and installing the system.

We are dedicated to providing the proper maintenance and servicing of your rail equipment in order to keep your business running efficiently. We will design an individual service plan for you, based on your bespoke system and its particular usage. We can also offer commissioning, training, spares and static and dynamic calibration for both new and existing installation in accordance with international metrology directives.

As a Railweight customer, you can benefit from our team of trained technicians anywhere in the world. We are truly your complete rail vehicle weighing solution provider and your partner, now and in the future.