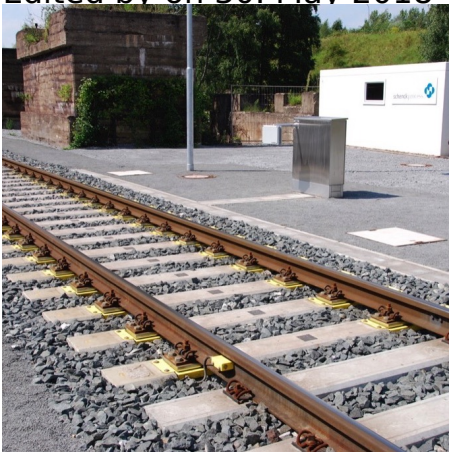Product News

Schenck Process: U.S. Legal-for-Trade Status for single-section coupled in-motion Rail Scale

Edited by on 30. May 2018

MultiTrain® LegalWeight offers an alternative for

industries with limited track downtime for installation. The ballast supported design is a unique feature replacing the traditional concrete foundation with a ballast embedded legal-for-trade rail scale. LegalWeight installation is faster than other legal-for-trade rail scales on the market with less than 1-day of track downtime compared to conventional installation times of over 30 days. Schenck Process is the *only* manufacturer that can install single section, legal-for-trade, coupled in-motion rail scales in 1-day. The customer benefits through dramatically reduced track downtime for installation.MultiTrain® LegalWeight is ideal for the following industries that require legal-for-trade weights:

- Aggregated and bulk solid materials

- Scrap metal and steel
- Waste Management
- Wood products, lumber and paper
- Agriculture
- Petro-chemical

Scales are more important than ever in the U.S. rail industry today. The rail weighing market is placing a strong emphasis on productivity with verification of weights used for custody transfer. Schenck Process is equipped to meet market demand and customer requirements with one, two, three and four section NTEP certified legal-for-trade, coupled-in-motion rail scales.LegalWeight requires as little as 165' straight and level track requirements with the single weighing section system. Due to the reduction in weighing sections, the cost to the customer is reduced by 25-33% per weighing section vs. traditional pit scale installations. Schenck Process can support customers who have less track for scale area with our new legal-for-trade single weighing section.LegalWeight is a ballast supported dynamic weighing system designed for the weighing of railcars while coupled in-motion up to 14 MPH. Increased weighing speeds provides our customers increased productivity and network capacity with the flexibility to expand their rail yards or industry track. LegalWeight incorporates continuously welded rail into its design in order to provide the fastest speeds in the industry. Continuously welded rail allows transit at full line speeds which can exceed 55 MPH. Therefore, eliminating the rail gaps increases the speed of weighing by 3x. As an option, LegalWeight can provide unbalanced load detection for both front-to-back and side-to-side loading.LegalWeight utilizes instrumented concrete weighing ties equipped with high precision load cells. The load cells measure the vertical force applied through the rail between the tie and ballast with a legal-for-trade accuracy of 0.2% for individual car weights, the industry standard for accuracy in all legal-for-trade systems.The scale electronics can withstand temperatures of -22°F (-30°C) to 122°F (50°C). The NTEP and rail industry standard is 14°F (-10°C) to 104°F (40°C). The wider temperature range reduces our customers' equipment costs by eliminating heaters and blowers. The ability to install LegalWeight in harsh environments is proven in installation climates ranging from Northern Sweden to the Australian Outback.Key Features of MultiTrain® LegalWeight include:

- Installs in less than 1 day
- Harsh environment design
- Eliminating rail-gaps increases speed of weighing 3x
- Speeds can exceed 55 MPH non-weighing

- Eliminates concrete foundations
- Reduces installation times by 30 days
- Eliminates hazardous confined spaces
- Relocation is possible
- Collects AEI tag information
- Derailment prevention data
- Prevents damage to rail infrastructure
- Increased safety to the public.
- Reduction of fees/fines

Schenck Process is the global market leader of solutions in measuring and process technologies for industrial weighing, feeding, conveying, screening, automation and air filtration. The company develops, manufactures and markets a full range of solutions, products and turnkey systems by combining 120 years of process engineering expertise, reliable components and field-proven technology.