

MultiTrain® LoadOut



- Dynamic weighing of railcars
- Tare and gross weighing
- Streamlining the loading process
- Integrating into the LoadOut control system
- No-foundation, gap-free installation

Application

MultiTrain® LoadOut is the ideal supplement for train loaders.

Railcars can be weighed directly before and after loading with the high-precision MultiTrain® measuring technology. Its calculated net weight makes it possible to adapt the loading process to take optimum advantage of railcar capacity. The gross weights can be used to make sure the railcar weights stay within the acceptable route load.

Equipment

The concrete weighing tie developed for MultiTrain® is equipped with high-precision load cells.

These load cells can transmit all forces and moments and measure the vertical force component at a high degree of precision.

The MultiTrain® weighing system is integrated into the rail without a gap so that it can be traveled over at any speed. With its modular design, this system is adapted for weighing to the speed range of the load.

This system is especially designed for weighing long trains with the stop-and-go operation typical of loading.

The data is typically transmitted directly to the PLC of the train loadout equipment.

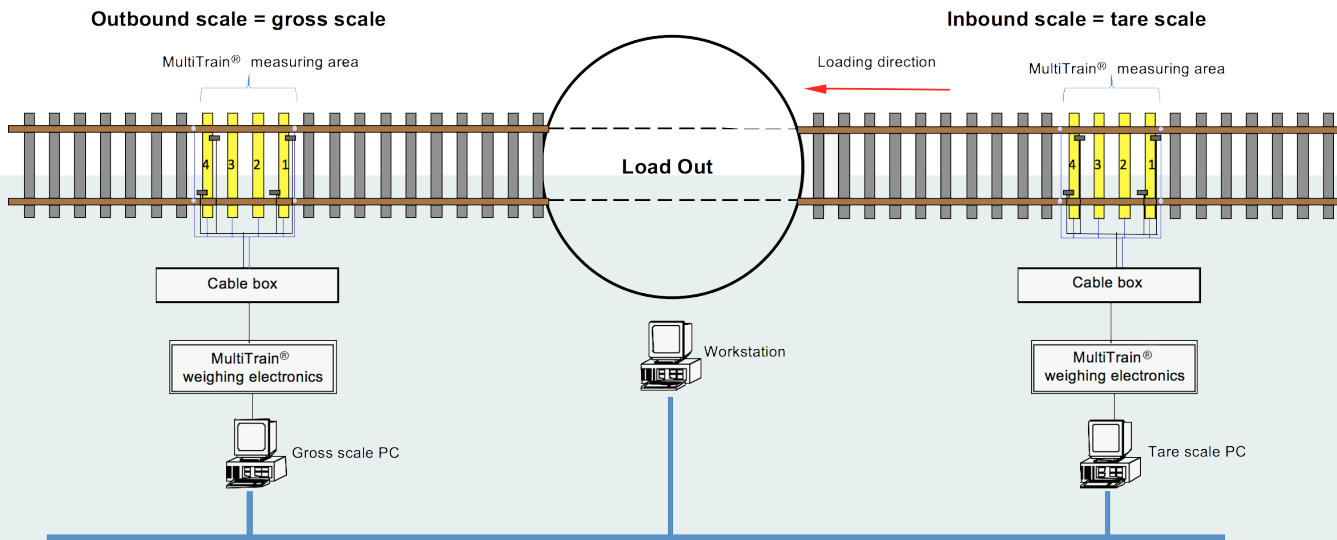
Function

MultiTrain® includes the following basic functions:

- Calculating and showing weights
- Printing out and storing data
- Stop-and-go operation
- Issuing results online
- Transmitting data to the PLC by OPC server

Other optional functions are available:

- Railcar identification with RFID or other equipment
- Monitoring the railcar center of gravity
- EDP / BDE system interfacing



Technical Data

Rail profile, track gauge and tie spacing	As used in existing track section
Installation length of the in-motion weighing system	Typically 10 ft. (3 meters) measuring area *)
Weighing range	Typically 100 – 150 t
Weighing mode	Dynamic
Weighing accuracy	0.5% railcar weight
Weighing speed range	To 3 mph (5 km/h) (higher speeds upon request)
Transit speed	Unlimited (gap-free)
Operating temperature range	Weighing mechanics: -40°F to 158°F (-40°C to 70°C) Weighing electronics: 41°F to 86°F (5°C to 30°C)
Approvals	EBA

*) dependent upon individual application