MULTIRAIL® WheelLoad

- **Wheel load measurement system according to DIN 27201-5 (TRF.0014)**
- **Determination of wheel and wheelset loads on rail vehicles**
- **Flexible installation opportunities**

Application

With MULTIRAIL® WheelLoad, we offer a totally new system for the determination of wheel loads of rail vehicles.

The measurement system is especially designed for the workshops dedicated to the construction and repair of rail vehicles.

The precise and modular MULTIRAIL measuring technology provides wheel and axle loads as well as the load distributions of traction and secondary vehicles with a high degree of accuracy according to the relevant standards (EBA, DIN, TRF). In addition the wheel loads of passenger cars and freight wagons can be easily determined.

Equipment

The high-precision strain-gauge weigh discs are mounted on solid concrete foundations or alternatively on steel constructions. Designed to transmit all forces and moments these weigh discs measure the vertical force component with a high degree of accuracy.

The MULTIRAIL WheelLoad system will be integrated into the rail with rail gaps thus a high degree of accuracy will be obtained upon static weighing.

Weight values and associated data are acquired and processed with the use of legal-for-trade weighing electronics and customized PC systems.

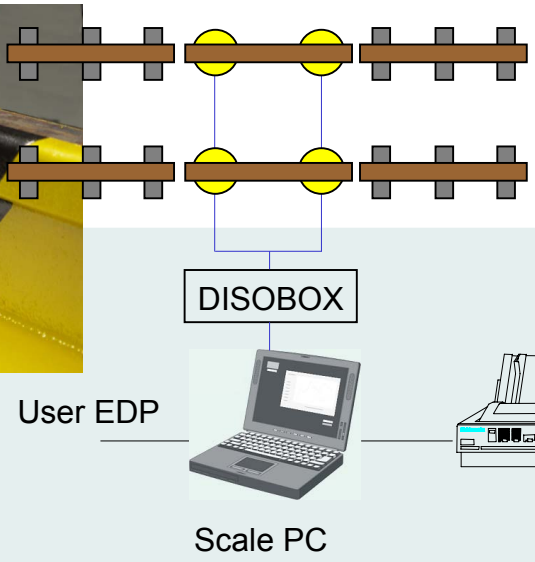
Function

MULTIRAIL WheelLoad offers the following basic functions:

- Monitoring of wheel and axle loads
- Determination of relative wheel load differences
- Monitoring of wagon weights and wagon centre of gravity
- Printout and storage of weigh data

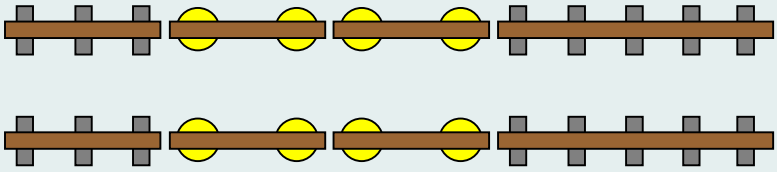
Optionally, further functions are available:

- Solutions with bridges and lifting equipment
- EDP / BDE system interfacing
- Wireless data transmission
- Hand-held terminal for wagon data acquisition
- Multiple track gauges in parallel
- Diagonal rail cut

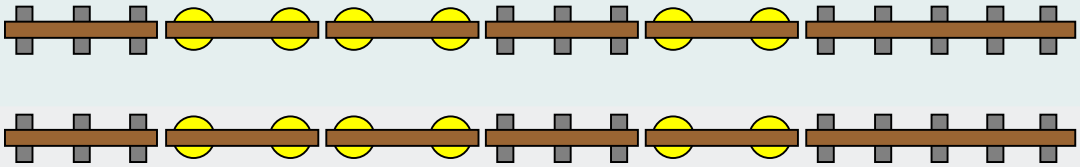


Modular construction:

Example 1



Example 2



Technical Data

Length of the installed system	Approx. 800...1000 mm per axle
Weighing range	Typ. 15 t wheel load
Weighing mode	Static
Weighing accuracy	Compliant to test standards +/- 0.1% full scale +/- 0.5% of actual value with 20% minimum load
Installation conditions	Levelled track according to DIN 27202-10 (TRF. 1910) Can be delivered on request

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