

MULTIRAIL® Wheel&GuideLoad



- Measuring Q and Y forces
- Homogenous measuring track
- Long-time stable elasticities
- Measuring track curve function
- In conformity with DIN EN 14363

Application

With MULTIRAIL Wheel&GuideLoad, you get a system for recording both Q and Y forces. In addition to load recording functions, it enables you to assess vehicle running properties and drive mechanisms such as safety against derailment, climb-up tendency and imperfect wheel alignment.

This system will be engineered as a measuring track curve (e.g. with 150 m radius) and enables you to record and show the magnitudes pertinent to vehicle licensing in conformity with DIN 14363.

Fittings

MULTIRAIL Wheel&GuideLoad consists of several force transducers adapted to this purpose that precisely record both Q and Y forces.

PC-based data processing calculates, stores and transmits measuring data.

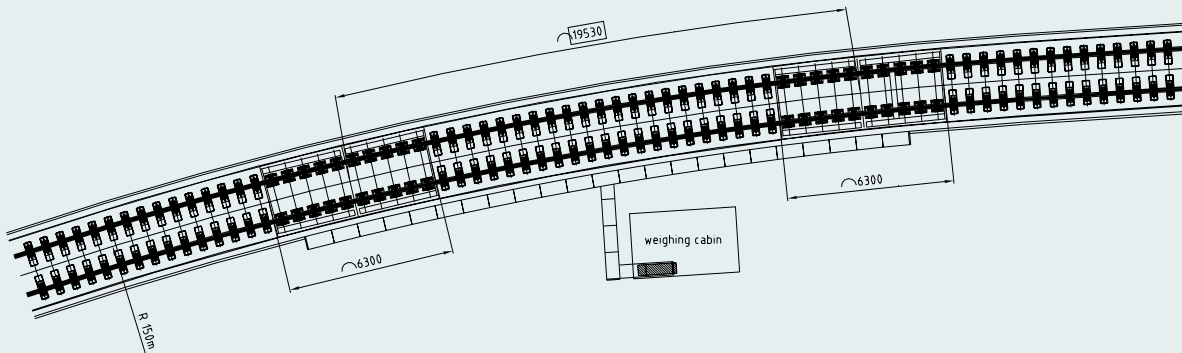
Function

MULTIRAIL Wheel&GuideLoad has the following basic functions:

- Recording Q forces
- Recording Y forces
- Recording axle loads
- Recording wagon weights
- Overload control
- Assessing running properties
- Checking safety against derailment
- Axle base and wagon recognition

Other optional functions are available:

- Data transmission to higher-level systems



Technical Data

Speed range in the measuring track curve	2 km/h to 10 km/h
Accuracy	Depending on where installed (Radius and speed)
Typical example in the measuring track curve	Q: 1% Y: 2% Y/Q: 5%
Temperature range	Mechanics and sensors: -40 °C ... +70 °C Measuring electronics: +5 °C ... +30 °C
Calibration	With the MULTIRAIL calibrating cross beam