Wheel Contact Force Measurement

WINtec® process

LARS-m

The LARS-m wheel contact force measuring system is a mobile, flexible system used to calculate wheel contact forces on rail vehicles.

The system is compatible with almost all commonly used rail profiles and track gauges.

In addition to individual wheel loads, LARS-m can be used to calculate respective axle loads and gross vehicle weights.

- Conforms to: DIN 27201, DIN EN 50215, EN 14363 and UIC V660
- Measurements are taken on the outside diameter of the flange, suppressing lateral forces which can affect results
- Measurements not affected by transverse offset of wheels
- Compatible with all commonly used rail profiles and track gauges, including narrow and broad gauges
- The system can be deactivated by removing the wear covers above the mearsuring bridges thus allowing vehicle travel over the system at relatively high speeds
- Patented force transmission process prevents any potential distortion of measurements by restraining forces

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Western Sierras, Inc.
314 North Park Street
Reno, NV 89512

☎ (775) 324-2577
🖷 (775) 786-6098
@ info@westernsierras.com
🌐 www.westernsierras.com

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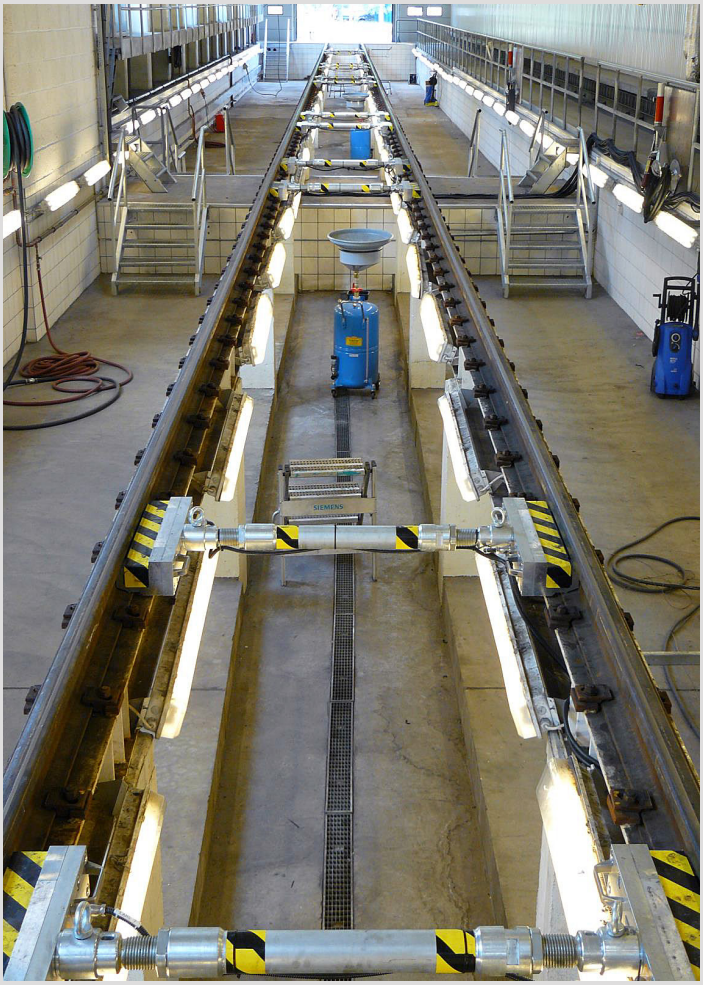
- The LARS-m can be used as either a permanent or temporary measuring system
- Takes just a few minutes to install or remove without special tools
- Extremely flexible system quickly adapts to different axle and bogie center distances
- Easily expandable and upgradeable at will due to the modular design



- Can be quickly moved at any time to different installation locations
- Versatile enough for use in different situations without the need for inspection pits, elevated sidings, level concrete areas or other special track systems
- Connect two, three, four or more systems together for a stress test rig to measure all wheel forces of a bogie, vehicle or even an entire train

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