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Product overview

- ❑ State of the art maintenance systems for Boggies
 - Bogie testing and maintenance
 - Wheel weighting facility with twisted track
 - Bogie presses Bogie weighting unit
 - Mobile spring mounting unit
 - Spring test presses

- ❑ Rail processing for rail welding plants
 - Threefold rust treatment
 - Smoothing of rail joints
 - 4 way rail straightening presse
 - Bending test
 - Mobile rail straightening manual presse





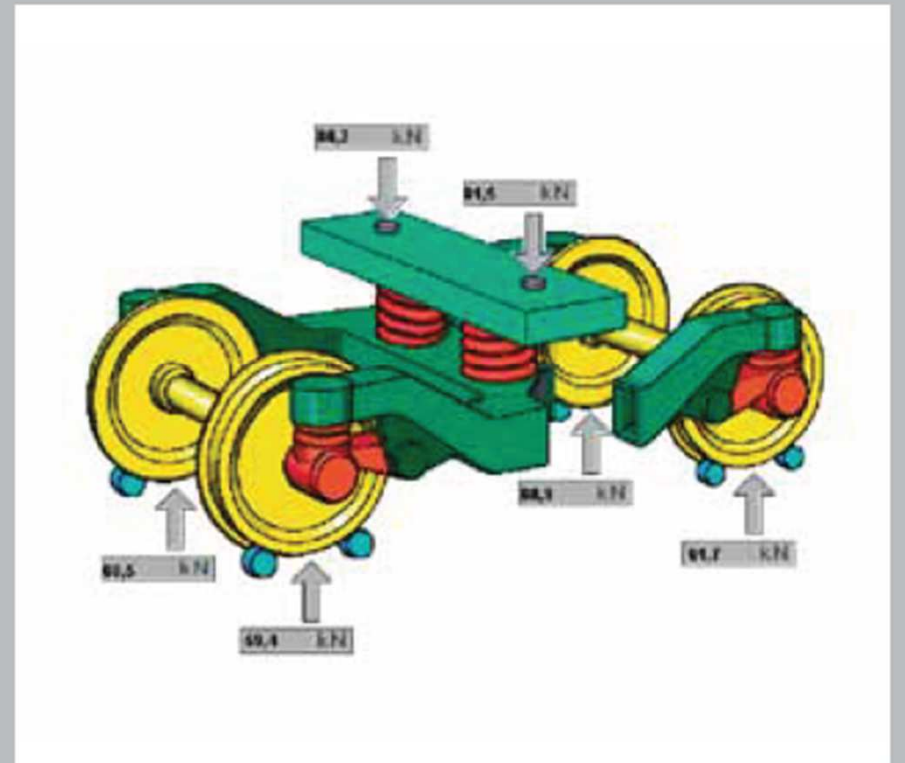
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Boggie maintenance

Leading technology by international standards

Nencki, attributable to many years of experience, has acquired great know-how in bogie and spring testing and is familiar with the various requirements and standards of its international customers. Nencki installations are used for efficient and simple operational checks in many maintenance workshops. Thanks to electronic data storage, complete traceability is assured indefinitely. Nencki also intends to play a leading technological role in comprehensive testing and maintenance concepts in the future. The new wheel weighing facility with twisted track is a step towards «conditions based maintenance».





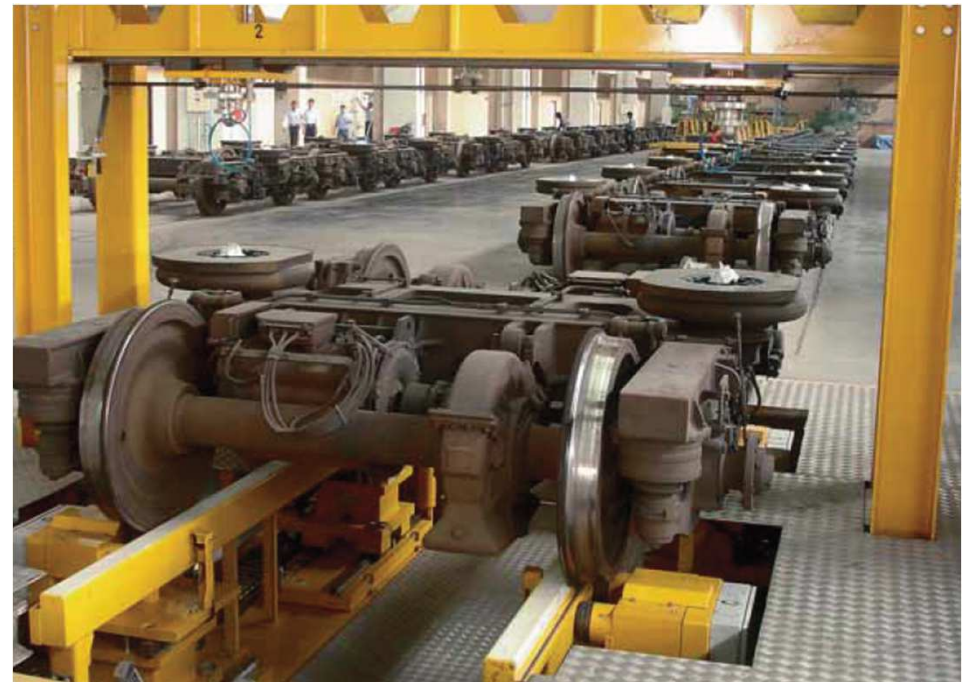
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Bogie maintenance

□ Bogie test stand

Nencki is the world's leading manufacturer of bogie test stands, some of them with complex functions, such as the testing of tilting and wheel steering bogies. Our customers include rolling stock manufacturers, railway maintenance companies and transport enterprises. The range consists of a modular system. A bogie test stand can be equipped to suit individual requirements. The distribution of wheel loads, axle distances, spring deflections etc. is measured and recorded fully automatically on the PC-based control system.



Technical data

Solutions: from 2 x 150 to 2 x 600 kN

Number of axles: 2 or 3

Track gauges: fixed or 850–1676 mm



□ Boggie Presse



Nencki bogie presses allow bogie manufacturers and maintenance workshops uncomplicated assembly and dismantling. As a specialist in technically leading test stands, the company has valuable experience and also makes the highest demands of stability and user-friendliness for bogie presses.

Adjustable horizontal beam

The bogie press NBP is also available with a height-adjustable horizontal beam. Bogies with great overall heights can be handled. Nencki offers bogie presses for loads of 2 x 150 kN or 2 x 250 kN.

□ Boggie-lifting device



The Nencki lifting device NBL enables safe and ergonomic working on a bogie in the maintenance workshop. It is lowered into the ground and requires only a minimal foundation. After the bogie is rolled on the lifting table at ground level, the bogie or individual wheelset can be raised continuously by hydraulics. Narrow lifting columns and an open platform frame ensure excellent accessibility.



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Bogie maintenance

□ Spring test-Machine

A well sprung suspension is crucial for the perfect functioning of a bogie. Both axial (vertical) and transverse (lateral) spring stiffness can be determined with the Nencki spring test press NST. The determination of a spring bowing and the corresponding alignment when fitted to the bogie prevent the increase of lateral forces under load. The running performance and derailment factors are thereby considerably improved.



□ Mobile Spring Assembly Press

The mobile assembly press NSP M was specially developed for bogie construction and maintenance. With it the primary spring can be efficiently and ergonomically assembled or dismantled.





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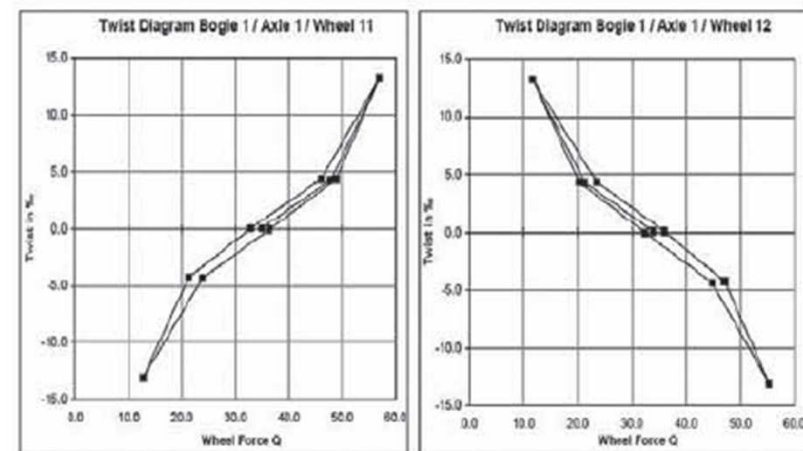
Bogie maintenance

□ Advanced bogie status diagnosis: Wheel weighting facility

The Nencki wheel weighing facility NWW is the perfect equipment for innovative «conditions based maintenance». Without prior dropping of the bogies, the bogie suspensions of a car can be tested in less than half an hour with a twisting track in the workshop. Depending on the resulting derailment safety, the vehicle is maintained or can continue to remain in operation. This contributes substantially to cost reduction as expensive components are not replaced after a prescribed number of kilometres but only after they are worn out.

Fully automatic test

The fully automatic, PC controlled test is based on the EN 14363 standard and can be carried out in 15–30 minutes.



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❑ Rail processing technologies:

- Complete equipment for treatment before and after welding process
- Capacity to design turn key rail welding plant with integrated control systems

Complete production line with a long life span

Nencki machines for rail processing in stationary welding plants for long welded rails are in operation all over the world. The range includes the machinery and equipment before and after the welding process with a brushing machine, grinding machine, 4-way straightening press and test press for welded joints. Nencki is able to design and supply complete rail welding plants including rail transportation equipment and integration of all involved control systems. Nencki equipment has a long lifespan. In numerous welding plants, over twenty year old machines continue to function reliably and require little maintenance.





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Rail processing

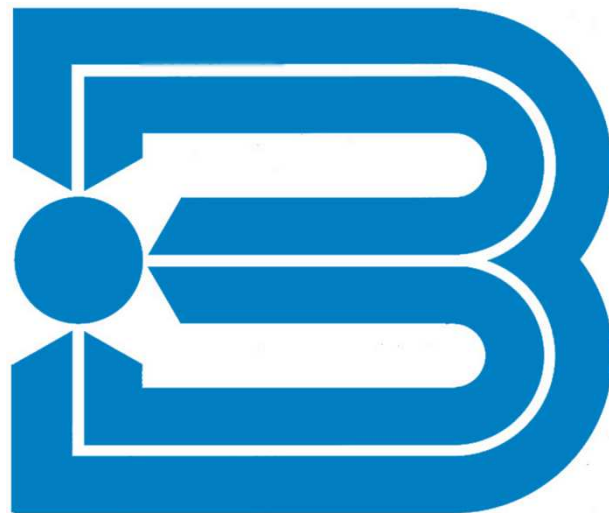
□ Manual mobile straightening press

With the Nencki mobile rail straightening press, rails and switch blades can be straightened or curved on the railway track or in the workshop.





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