



**Hegewald & Peschke**

Meß- und Prüftechnik GmbH

Application flyer

# Shear test on brake linings

Universal testing machine inspekt table 250kN



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The quality of brake linings is subject to constantly increasing demands. Higher vehicle masses and more powerful engines require higher braking performance. This is usually achieved by using larger brake discs. The interface between brake pads and brake disc is an important indicator of the performance and comfort behaviour of a brake system.

The determination of the mechanical properties of brake linings can be carried out using various test methods. One way of testing is to check the adhesive bonding of the friction lining for shear strength. The brake lining is clamped in a special holder for testing shear forces. The test load is applied laterally and from above. The test is finished as soon as the sample breaks at the adhesive bond.

Hegewald & Peschke has developed a test system for this type of test which includes a special version of the universal testing machine Inspekt table 250 kN with safety door and shearing device, the equipment of which is manufactured individually according to customer requirements.



Fig. 1: Shear test on a brake shoe

The test tools can be precisely adapted to the carrier plate and the friction lining. The knowledge gained can be used in research and development as well as for quality control.

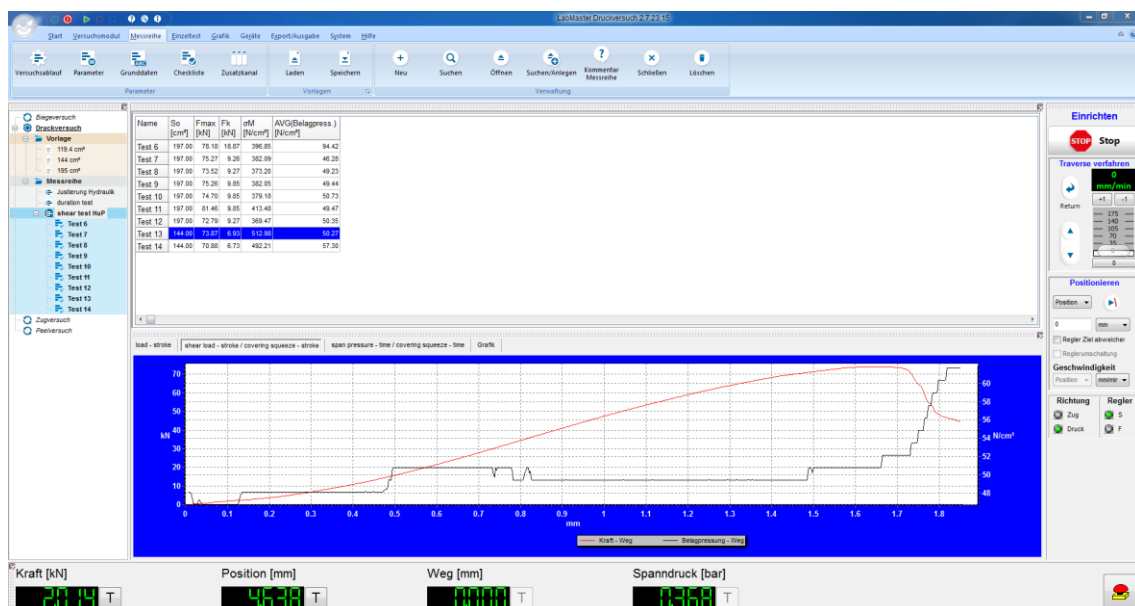


Fig. 2: Test evaluation with the test software LabMaster

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