

x-cal weight

TEST AND CALIBRATION DEVICE FOR WEIGHING SYSTEM IN THE WHEEL ALIGNMENT TEST STAND X-WHEEL



» x-cal weight mounted at the wheel alignment test stand x-wheel

Innovation

Today, usual calibration weights do no more meet modern requirements of a quality-conscious check of the weighing system in the end of line. The new test and calibration device x-cal weight with a certified measuring chain represents the innovative solution for the verification and calibration of the weighing system of a wheel alignment test stand "x-wheel" which is integrated in the floating plates. Calibration weights which are difficult to handle will thus be replaced.

Principle of weighing system

In case of the wheel alignment test stand each wheel support consists of a pair of rollers and a floating plate. The floating plate rests on four ball bearings. Under the ball bearings the corresponding weighing cells are arranged. They are connected with the test stand control via measurement amplifiers. These weighing cells must be verified and calibrated at regular intervals.

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Application

- » In order to use the calibration system the mechanical components are mounted onto the wheel alignment test stand at the respective floating plate.
- » The calibration system generally consists of a loading unit with integrated force transducer and a weighing indicator for displaying the test load. The measuring chain of the calibration system has been certificated.
- » By comparing the acting test load with the corresponding measuring value in the wheel alignment test stand the respective measuring amplifier can be adjusted exactly. Only then, a precise determination of the vehicle weight in the wheel alignment test stand is guaranteed.

The following procedures can be carried out „menu-controlled“ by means of the appropriate software:

- » Initialize the weighing unit
- » Execute the idle test of the weighing system
- » Linearity testing of the weighing system
- » Set the weighing system to „zero“
- » Calibrate the weighing system

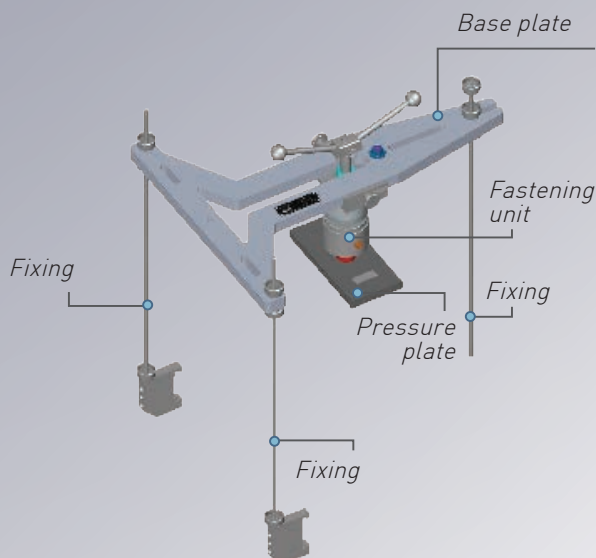
Customer benefit

- » Replacement of the calibration weights which are difficult to handle
- » Assembly of the system without any tools
- » Quicker check and calibration compared to usual procedures.
- » Automatic issue of a test certificate

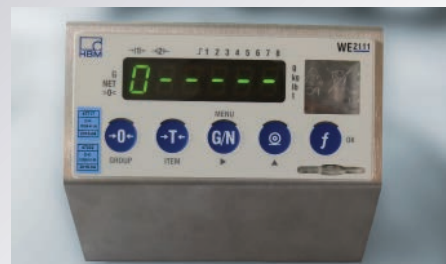
Features

- » The nominal test load is 750 kg.
- » The maximum allowed test load is 1000 kg.
- » The entire test system will be delivered in a solid aluminium roller box.

» Layout x-cal weight



» Test system in aluminium roller box in Alu-Rollbox



» Weighing indicator

* The photographs and figures of the assembly and testing systems in this flyer are not showing the complete installations. The requirements of the machinery directive (2006/42/EG) will only be met by other supplementary scope of supply or - on delivery of uncompleted machines - those requirements must be fulfilled by the manufacturer of the (complete) machine.
Flyer x-cal weight, Version A

