

Combined test rig for durability and hardness tests on mattresses and cushion frames



The test stand **combines the loading device (roll) with a hardness measuring device**. Thus, tests can be carried out according to EN 1957, **without the need for a rearrangement of the specimen, which would falsify the measured values**.

After simply loosening the front frame reinforcement the specimen can be **inserted into a flexible test table frame**. This makes the testing device very effective and space-saving.

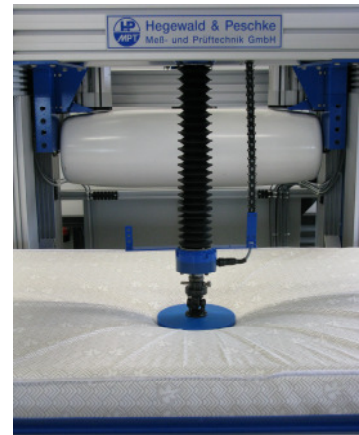
The **extensive testing and evaluation software LabMaster** allows for a **flexible parameter entry**, the execution of **different testing procedures**, a **graphical representation of measured values**, test evaluation, and logging. The **hardness value H** and the **firmness rating Hs** are determined **independently by the programme**. When the pre-set number of cycles is reached, **the test is ended automatically**.



Loading unit



Overview



Hardness testing

Technical data

Field of application	Testing of components for beds according to EN 1957
Specimens	Mattresses, cushion frames Maximum dimensions: 2.0 m x 1.2 m x 0.3 m
Loading unit	Roll, active load: 1400 ± 7 N Stroke: ± 250 mm Speed: sinusoidal Number of cycles: 16 ± 2 /min
Measuring device: load	Load measuring range 0 – 2 kN
Measuring device: position	Resolution: < 1 µm Measuring range max. 500 mm Speed: 0.05 - 1000 mm/min
Number of cycles, testing procedure:	Loading unit can be parameterised with PLC, measuring device is software controlled, definition of testing procedures can be done by the user
Electrical connection	230V/50Hz
Compressed-air supply	Not necessary
Dimensions: transport B x T x H	1460 x 2810 x 2050 mm
Dimensions: installed B x T x H	2100 x 2810 x 2350 mm
Weight	1300 kg
Optional accessories	On request