



Product Information

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.

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