



Hegewald & Peschke

Meß- und Prüftechnik GmbH

Product Information

Test device for pendulum stroke tests

at seating furniture and desks



Hegewald & Peschke, Meß- und Prüftechnik GmbH
Am Gründchen 1, 01683 Nossen
Telefon: +49 35242 445-0, Telefax: +49 35242 445-111
E-Mail: info@Hegewald-Peschke.de
<http://www.Hegewald-Peschke.com>



Field of application:

pendulum impact tests according to DIN-technical report 147, EN 716-2, EN 1130-2, DIN EN 1728, DIN 4554 (cancelled), EN 12221-2, EN 12520, EN 12727, EN 14072 und EN 14988-2 und LGA-norm for tables.

Consisting of

- bed plate 40 x 120 mm and a frame of aluminium profile with a height of 2300 mm
- pendulum axle, height adjustably, with a scale to read out the height of the pendulum axle over zero
- pendulum head, mounted swivelling, with a scale for the measurement of deflection in 1°-steps
- clamping connection 40 mm shaft diameter in the pendulum head, this makes possibly the easy changing of the various impact hammers

The test equipment is designed as an additional component for installation on an existing test field or base plate.

Included accessories:

- 1 impact hammer 6,5 kg x 1000 mm
- 1 impact hammer 5,0 kg x 1000 mm
- 1 impact device 2,0 kg x 300 mm
- deflection measuring device with software and angle transmitter
- software for direct evaluation

The deflection of the test specimen is recorded and displayed after the pendulum impact without contact using a digital measuring system. A high resolution is achieved and at the same time the inertial errors of mechanical measuring systems in impact mode (e.g. for deflection measurements) are avoided.

With a software the registered value pairs from time and amplitude can be read out and represented in a diagram on a PC.

Other values determined are the period of oscillation and the damping behaviour.

Technical data:

system configuration	test device for pendulum stroke tests for the finding of deflection of a test piece after defined impact of the pendulum hammer at seating furniture or desks. The configuration of the impact hammers and the deflection are prescribed by the valid standards.
stop height of the pendulum stroke hammer at the test object	up to 1130 mm over the bed plate
measurement range of deflection of the hammer	+/- 90°
sampling rate	up to 1 ms
capturing of deflection of the test object after the impact	non-contacting, by digital measurement. By means of a PC, the findings can be included in a diagram of position and time
input plc-control unit	USB
dimensions of test rig	120 x 40 x 2300 (length x width x height)
optional accessories	PC with components (screen, printer)