



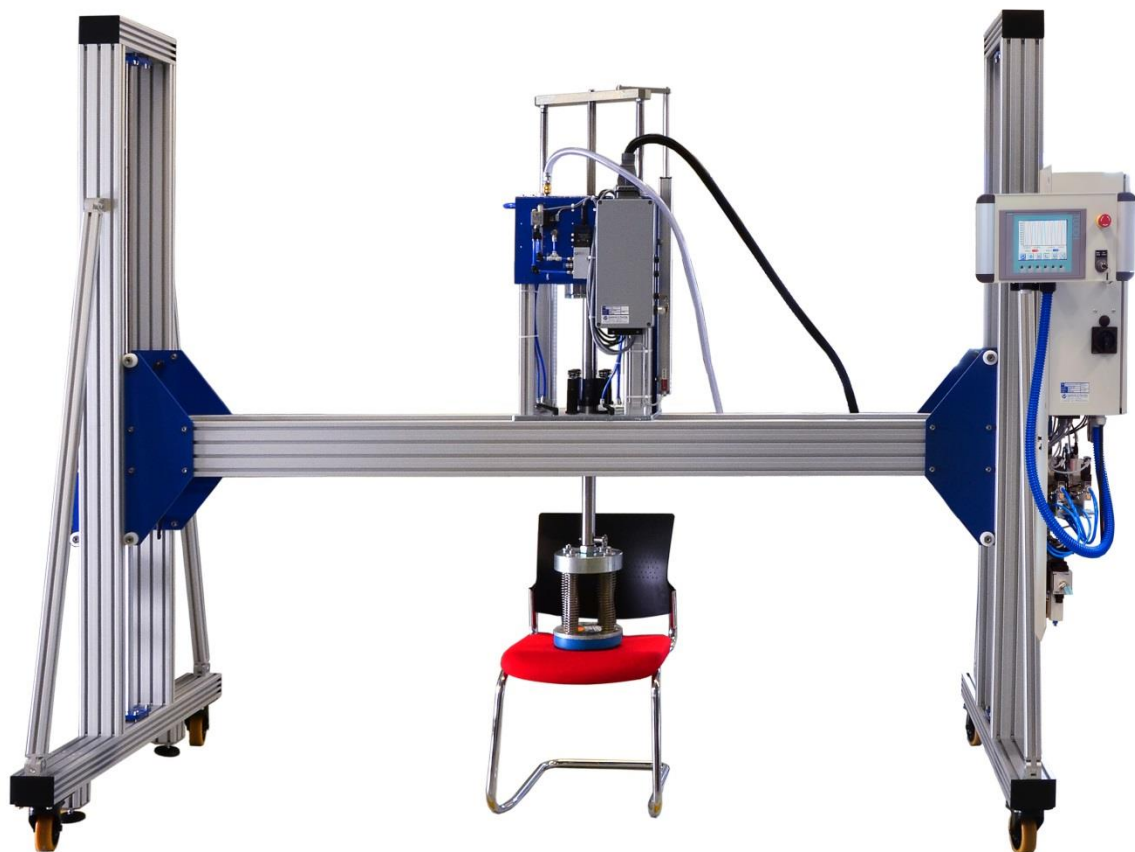
Hegewald & Peschke

Meß- und Prüftechnik GmbH

Product Information

Drop test rig

acc. to EN1728, BIFMA X5.1, EN 12520, DIN 4551; NEN 1812, PLC-based, Calmar one



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Field of application:

drop tests with weights from 9.1kg to 200kg

- height and width of the specimen variable
- max. specimen height: 1850mm-drop height,

The drop tester can be used universally for drop tests or drop impact tests according to EN 1728, EN 581-2, BIFMA X5.1, BIFMA X 5.5, BIFMA X6.1, DIN4551, DIN 4573, EN 14072, NF DF61-062, among others.

In addition, the drop tester can be extended with an acceleration sensor for testing according to RAL GZ430/4.

Test objects:

chairs, stools, tables, beds

The PLC with analogue value processing is directly mounted to the test rig. The touch panel allows the parameterization of tests and depicts the real time status of the connected test axis. The parameterization can be done individually and saved as a template or based on an prevalent standard conform template. For example parameters such as the amount of cycles, time intervals, maximum and minimum values can be set.

During the test run the user can view the test status. The cycle number, failure messages and a graphical visualization of the test run can be observed. At test end the control saves automatically all for the documentation necessary parameter and allows the export of the data to a computer for test reporting.

Advantages:

- Drop cycles adjustable
- Monitoring of aging
- Optional setting of a constant drop height relative to the test specimen surface or a fixed drop position
- Drop window and tolerance for the adaption of the drop wave definable

consisting of:

- moveable testing portal for carrying a drop tester


The span of the portal is 2500mm; the crosshead is manually height-adjustable. It can be setup in a way so that drop tests of 500mm height directly on the floor are possible. The portal is constructed out of aluminium profiles and the castors are lockable.

- manually by crank operated stroke systems to height adjustment of the cross traverse
- 1 drop tester stroke controlled (max. 136 kg and 500 mm drop height)
- 1 PLC with touch display in a handy panel tiltable in the up/down and left/right direction to fit the user point of view

Technical data:

power	230VAC, 50 Hz
connection	
pneumatic connection	pressurized air 6..10 bar; quality acc. ISO/DIS 8573-1 (oil content less than class 2; impurity content better as class 3; water content less than class 4)
control accuracy	±5% of set value, enhanced after 20% of nominal load
position resolution	min. 0,2 mm
position accuracy	±1mm or better

optional accessories

- 18-350-001 report generator
- 40-930-053-BG82 acceleration  measurement and control of reaction force for drop tests in acc. to RAL-GZ430/3, EN581-2
- 40-001-050: fixation elements for office chairs



- 40-900-051: Acceleration measurement device for drop tests up to 10g with display
- 40-001-056: fixation elements for office chairs
- 40-001-055: fixation set for free swinging chairs, raster 120 and 150
- 40-001-117: fixation set for table testing (12mm high, also for 4 leg chairs)
- 41-006-710: drop weight pad, basis weight 36 kg acc. to BIFMA
- 41-006-720: drop weight pad for arm rest-test acc. to BIFMA



- 41-006-721: additional set of weights for drop weight pads acc. to BIFMA
- 41-006-730: Seatimpector for drop tester with impact pad
- 41-006-735: drop weight; impact testing of horizontal glas acc. EN 14072

- 41-006-740: drop weight; leather bag 50 kg for drop tests acc. EN 581-2
- 41-006-741: drop weight; leather bag with steelball filling; total weight 25kg
- 41-006-742: drop weight; pad 16" for drop tests acc. BIFMA X5.1 and X6.1, without filling
- 41-006-743: drop weight; leather bag for drop tests acc. NF D61-062 (D300; 75kg)
- 41-006-744: drop weight; bag acc. DIN EN 1860-1 and ISO 7892, without filling



- 41-006-745: drop weight; bag 12" for drop tests acc. BIFMA X6.1, without filling
- 41-006-750: drop weight for beds testing acc. EN 716-2





Dimensions of the drop test rig
(other sizes available on request)

