



Product Information

Drop test rig

e.g. acc. to BIFMA X5.1, BIFMA X6.1, EN 581-2, EN 1728, ISO 7173, EN 12520;
Calmar I series





Application:

Drop testing at seating furniture with weights between 9-136kg

The system is based on a PLC with data export functionality to a personal computer. The PLC with analogue value processing is directly mounted to the test rig in a handy panel, tiltable in the up/down and left/right direction to fit the user point of view. 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 intervalls, maximum and minimum values can be set.

During the test run the user can view the test status. E.g. the cycle number, failure messages and a graphical vizualization 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.

Consisting of:

- 1 test frame based on a stainless steel base plate 1250 x 1350mm, 12 mm strong, steel galvanised, with underscrewed enforcement, on vibration damped feet, M10 thread pattern for flexible fixation possibilities
- 1 alloy frame work with stiffness enhancement
- 1 cross girder as carrier for drop testing unit
- 2 electrical stroke systems for height adjustment of the cross traverse
- 1 drop tester stroke controlled (max. load 136 kg and max. stroke 500 mm)
- 1 PLC with touch display
- centralized pressurized air connection (NW7,2) with air conditioning unit consisting of filtering systems, pressurized air distributor and switch-on-valve
- fixation elements for office chairs (40-001-050 and 40-001-056)
- 1 accessory box including 2 eye bolts, 2 straps for fixation of the chair

Technical data:

- power connection: 230VAC, 50 Hz
- pneum. connection: pressurized air 6-10 bar, quality acc. ISO/DIS 8573-1
- position resolution: min. 0.2 mm
- position accuracy: ±1mm or better

Options:

- computer & monitor for data export
- remote maintenance modul (40-930-009)
- acceleration measurement device for drop tests up to 10g with display (40-900-051)
- fixation set for free swinging chairs, raster 120 and 150 (40-001-055)
- fixation set for table testing (12mm high, also for 4 leg chairs) (40-001-117)
- drop weight pad, basis weight 36 kg acc. to BIFMA (41-006-720)
- drop weight pad for arm rest-test acc. to BIFMA (41-006-710)
- additional set of weights for drop weight pads acc. to BIFMA (bags filled with steelballs diameter 0,5 mm) (41-006-721)
- Seatimpector for drop tester with impact pad (41-006-730)
- drop weight; impact testing of horizontal glas acc. EN 14072 (41-006-735)
- drop weight; leather bag 50 kg for drop tests acc. EN 581-2 (41-006-740)
- drop weight; leather bag with steelball filling; total weight 25kg (41-006-741)
- drop weight; pad 16" for drop tests acc. BIFMA X5.1+X6.1,without filling (41-006-742)
- drop weight; leather bag for drop tests acc. NF D61-062 (D300; 75kg) (41-006-743)
- drop weight; bag acc. DIN EN 1860-1 and ISO 7892, without filling (41-006-744)
- drop weight; bag 12" for drop tests acc. BIFMA X6.1, without filling (41-006-745)
- drop weight for beds testing acc. EN 716-2 (41-006-750)

Your contact person: