

drop test rig plc controlled



drop test rig acc.to EN 581-2-3, EN 1728, EN 527-3, DIN 4551, BS 5459, ISO 7173 and BIFMA X5.1, plc controlled, weights from 9,1kg to 136kg, with different weight pads and seat impactor

The plc controlling allows the configuration of the test in accordance to the selected test standard. The test runs automatically with the given parameters. The selected parameters and the current condition of the test is shown on the display. The RS-485 interface can deliver data on the PC at the end of the test.

consisting of:

- plc-controlling with RS 485-interface for data transmission
- 1 test frame conceived for 136 kg
- 2 electrical stroke systems for the height adjustment of the cross traverse
- 1 drop tester stroke controlled (136 kg and 500 mm)
- 1 drop weight pad, basis weight 36 kg acc. to BIFMA, impact pad 16"
- 1 drop weight pad for arm rest-test acc. to BIFMA, impact pad 8"
- 1 additional set of weights for drop weight pads acc. to BIFMA
(bags filled with steelballs diameter 0,5 mm)
- 1 Seatimpector for drop tester with impact pad.

technical data

field of application	automatic testing acc. to standards in development and quality control during batch production
test objects	chairs, revolving chairs, armchairs, stools, rocking chairs....
system configuration	impact test rig for seating furniture with drop weights of 9.1 to 136 kg, seat impactor, drop heights up to 500 mm, optional: depth suspension measurement to acc. EN 581-2
parameter limits	weights of 9.1 to 136 kg (depends on drop weights and additional loads) part nr. 40-910-056 drop height: up to 500 mm part nr. 40-910-057 drop height: up to 320 mm number of cycles: 1 – 999 999 single cycle times: 1 – 600 sec
test procedure	tested pieces are subjected either to the entire test procedure prescribed by the standards or to selected individual tests.
supply of compressed air	air pressure: 6 bar consumption: up to 200 l/min quality of compressed air: acc. to ISO/DIS 8573-1 - residual oil content better class 1 - residual dust content better class 1 - residual water content better class 4
input control unit	230 V/50 Hz
dimensions of test rig	1500 x 1700 x 2850 (length x width x height)
weight	450 kg
optional accessories	measurement device for the finding of the acceleration of the drop weight acc. to EN 581-2