



Product Information

Drop Test Rig with Testing and Evaluation Software



Test rig for alternating bending tests according to EN 527-3, EN 581-2, EN 1728, DIN 4551, BIFMA X5.1 and X5.5, BS 5459 and NEN 1812, load controlled. Drop weights between 9.1 and 136kg with different rams and seat impactor. The pneumatic test axis has its own controller assembled in the immediate vicinity, which is operated from a PC via CAN-bus and works synchronised. It is supplied by a central supply terminal, which can carry up to 2 pneumatic test axes. Central supply terminal, PC, screen, and keyboard can be positioned on a separate, moveable framework. Via a USB interface on the PC the data, control commands and software settings are transmitted via the central supply terminal to the pneumatic test axis. Part of the test stand is our extensive testing and evaluation software for the system software Windows 2000, XP or Win7.

The test rig consists of

- 1 framework with crosshead and base plate 1250 x 1350mm, 12mm thick, galvanised steel, with screwed on stiffening, drill pattern with thread M10; moveable and vibration-reduced
- 2 electrical stroke systems for height adjustment of the crosshead
- 1 drop tester, position-controlled (weight up to 136kg, drop distance max. 500mm for part nr. 40-920-057 and 320mm for part nr. 40-920-056)
- 1 drop weight plunger, base weight 36kg according to BIFMA, contact area 16"
- 1 drop weight plunger for arm rest testing according to BIFMA, contact area 8"
- 1 set of additional drop weights according to BIFMA (weight bags filled with steel shot, diameter 0.5mm)
- 1 seat impactor with air bag according to BIFMA X5.1 and EN 1728
- Operating pressure and cylinder limit switch control
- 1 emergency stop button
- set of fastening elements (4 mounting links, 8 eyebolts, 4 tension belts) for the specimens, also it is possible to fix chairs central on gas spring (stop rail, clamping bridge)

- Number of cycles and course of load to be set arbitrarily in the PC software
- extensive evaluation and logging of test and results

1 supply terminal for 2 test axes

The supply terminal is used as a connector for up to 2 test axes. It converts the CAN-protocol to USB and therefore is the connection to the PC. The cables for connecting the test axes are built-in. Furthermore it contains a central emergency stop, which can shut off all axes in a hazardous situation. The air conditioning consisting of filter, switch-on-valve and distributor is also situated on the supply terminal. The test axes can be attached via hoses with quick disconnect couplers.

1 Framework for supply terminal, PC, keyboard and screen, moveable

Framework for supply terminal made from aluminium profiles for installing a supply terminal and setting it up separately next to the test rig. It stands on fixable plastic wheels and can thus be used as a moveable or stationary system. On the backside of the supply terminal there is a table approx. 1000mm above the ground to carry a TFT-display, keyboard and mouse. Below the tabletop is storage to carry the PC. A gap in the tabletop allows cable feedthrough.

Accessories for the CAN-Bus and PC connection via USB interface

Not included

- PC with accessories (screen, printer ...)
- testing software

Your contact person: