

Alternating bending test rig for arm rest tests 2 test axis



Test rig for alternating bending tests of arm rests according to EN 1335, EN 581-2-3, EN 1728, BIFMA X5.1, DIN 68878, NEN 1812, load or load/position controlled.

The test axes each have their own controllers assembled in the immediate vicinity, which are operated from a PC via CAN-bus and work synchronised.

They are supplied via a central supply terminal, which can carry either up to 2 or up to 5 pneumatic test axes.

Central supply terminal and PC can be positioned on a separate 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 axes.

Part of the test stand is our **extensive testing and evaluation software** for the system software Windows 2000 or XP.

Included:

- 1 framework with traverse member 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 traverse member
- 2 pneumatic test axes, load controlled, piston diameter 63mm, stroke 500mm, test load up to 1500N, load cell 5kN
- The direction of load transmission is adjustable. The test axes are laterally adjustable to the right and to the left
- 2 load cells 5kN integrated in the axes
- Operating pressure and cylinder limit switch control
- 1 emergency stop button on each test axis
- Number of cycles and course of load to be set arbitrarily in the PC software
- set of fixing elements (4 clamping latches, 8 eyebolts, 4 clamping belts) for the specimens,
- 2 Load pads for arm rest with cardanic clamping connection

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. The framework is designed as a standing workstation for test rig configuration.

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

Not included:

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