



Hegewald & Peschke
Meß- und Prüftechnik GmbH

Product Information

Swivel Test Rig for Rotation and Castor Testing

on Seating Furniture with Testing and Evaluation Software



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Test rig for rotation and castor testing on seating furniture according to EN 1335, EN 14073-2, DIN 68878, NEN 1812, and BIFMA X5.1, load controlled. with loading pad. The pneumatic test axis has its own controller assembled in the immediate vicinity, which is operated from a PC via CAN-bus and work synchronised. It is supplied by a central supply terminal, which can carry up to 2 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 test axes. 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 traverse member and base plate 1200 x 1200mm, 12mm thick , galvanised steel,
- with screwed on stiffening, drill pattern with thread M10; moveable and vibration-reduced
- 1 electromotive test axis for the rotation of the turning knob, position-controlled, rotation angle +/- 360°
- 1 pneumatic test axis for seat, load controlled, piston diameter 80mm, stroke 500mm,
- test load up to 2500N, load cell 5kN. Load is transmitted vertically to the seat with lateral adjusting range.
- 1 load pad diameter 200mm for seat according to DIN EN 1335, clamp
- Operating pressure and cylinder limit switch control
- 1 emergency stop button on each test axis
- clamping device for X-base

- Number of cycles and load can 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