



Product Information

Test rig for tilting/drop tests at chairs

in acc. to DIN 68878/1; Calmar one



plc-controlled test rig for tilting and drop test at chairs in acc. to DIN 68878/1. With cycle counter and emergency stop (sample break). Sample break is recognized when the cylinder is driving out but not achieves the pre-adjusted stroke height. This plant is only conceived for this kind of test.

The test rig consists of:

- 1 frame construction with damping feet and a chipboard as test soil according to DIN 68878/1
- 1 pneumatic cylinder, angleadjustably installed pneumatic cylinder with rigidly attached load pad, piston rod torsion-lock
- 1 plc device with cycle counter and pre-setting

- 1 sensor for the drop height to initiate the dropping
- 1 set of fixing material for chairs
- 1 load pad

The specimen is tilted by the driving out cylinder. After reaching the desired height, the cylinder is changed over and brings in thereby with maximum speed. The test conditions come near to the free fall.

Optional accessories

- 1 piece 40-910-086 Weight bag for tilting/drop test without weights
- 8 pieces 40-910-087 Weight bag 10 kg
- 2 pieces 40-910-088 Weight bag 2,5 kg

Technical data

Application	Tests according to DIN 68878/1 in the areas of development and quality control of serial production
Specimens	chairs, executive-style chairs, stools, armchairs, cantilever chair,
System configuration	Tilting and drop test on seating furniture
Parameter limits	Weight according to DIN: up to 85 kg
Test process	Specimens either run through the complete test process according to the standards or selected individual tests
Compressed-air supply	6 bar, quality of compressed-air according to ISO/DIS 8573-1 (connection via plug-in coupling 9mm and ½" tube) <ul style="list-style-type: none"> • content of remaining oil better class 2 (oil-free) • content of remaining dust better class 3 • content of remaining water better class 4
Dimensions	1600 x 1100 x 1300 (length x width x height), controller set up separately
Weight	170 kg

Your contact person: