

Static test of the back rest in accordance to BIFMA X5.1, 1 cylinder, plc-controlled



Test rig for static load tests at the back rest for seat of seating furniture, in accordance to BIFMA X5.1, 1 cylinder, plc-controlled

consisting of:

- bed plate from galvanized steel 1000 x 1000 mm, 12 mm strong, with under screwed enforcement, on damping feet
- central supply of compressed air for oil-free operating, silencer at the cylinder
- plc-controlling, start/stop/emergency stop/cycle counter/cycle times
- controlling of operating pressure and cylinder end position, freely definable number of cycles
- cylinder 63x500 for a load impact to the back rest up to 1400 N
- lateral adjustment range of the back rest cylinder each 100 mm
- the operation of the load pad is to accomplish via rope and reverse guide roll, with a minimum distance of 750 mm between load transmission point and reverse guide roll, according to the BIFMA standard.
- set of fixing elements (4 tightening strips, 8 ring screws, 4 clamping belts) for the test pieces, with fixations for the chair (stop rail, tension bridge, support plate with V-form)
- load pad for the back rest acc. to EN 1335 and BIFMA X5.1 with adjustable clamping fixation and towing eyes

technical data

field of application	tests acc. to BIFMA X5.1, BSI/BS 5459 in development and quality control during batch production
test objects	chairs, revolving chairs, armchairs, stools, rocking chairs
system configuration	test rig for the test of static load at the back rest of seating furniture
parameter limits	loads: up to 1400 N (cylinder 63mm) distances: up to 500 mm stroke number of cycles: 1 – 9.999.999
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	6 bar, up to 400 l/min quality in acc. ISO/DIS 8573-1 (connection via ½" pipe and clutch NG3) - residual oil content better class 1 (oil-free) - residual dust content better class 1 - residual water content better class 4
maximum number of steps for each cycle	8
input plc-control unit	230V/50 Hz
dimensions of test rig	1000x1000 x2200 (length x width x height)
weight	210 kg
optional accessories	- loading pad for back rest 300x250 acc. to DIN 4551 with cardanic clamping connection - supplementary set for plc with load cells and adapters for the piston rod