

Universal linear modul with positioning system



The linear modul is to use for tests of rotary doors, sliding doors, roller doors, filing cabinets and drawers acc. to DIN EN 1727. It is suitable also for the roll test in acc. to BIFMA/ANSI and can be operated with or without obstacles at seating furniture, containers or roller desks.
(load on the central column of the chair: 136 kg, covered distance 762 mm, 9+/-1 cycles per minute)

consisting of:

- servo-electric controlled actuator module with stroke 1500 mm
- absolute way measuring system parallel to the movement of the carriage
- loads up to 1000 kN, with speed up to 1,6 m/sec
- loading cell 5kN
- toothed belt-driven linearmodul, carriage roller guided, pre-tensionable
- parameters load, position, speed, number of cycles and break time are to be programmed freely by the standard software of the complex control device

technical data

field of application	test acc. to EN 1727 and BIFMA/ANSI for static, increasing or dynamic load of the test pieces in development and quality control during batch production
test objects	tables, cabinets, shelves, desks, chairs, armchairs...
system configuration	test rig (loads with horizontal direction) to act in combination with: - central controlling with controlling unit for 5 mutually independent cylinders - PC workplace (central) for programming, visualization and evaluation
parameter limits	loads: up to 1.000 N distances: up to 1.500 mm speed: up to 1,6 m/s number of cycles: 1 – 500,000 single cycle times: 0.5 – 600 seconds
test procedure	tested pieces are subjected either to the entire test procedure prescribed by the standards or to selected individual tests.
special features	- a number of various test rigs can be operated with on central controlling unit - variety of fastening parts, grips and load pads available - the linear module is applicable to different test tasks, for example pull test at drawings, roll test with containers or opening and closing of cabinet doors
input control unit	230V/50 Hz, max. 500W
dimensions of test rig	3600 x 1200 x 2100(length x width x height)
weight	400 kg
optional accessories	Bed plates 1000 x 1000 mm, 12 mm strong, material steel galvanized, with drilling pattern and obstacles for the roll test (length 432 mm, height 3,2 mm)