



Product Information

Universal linear module

with electrically height adjustable stroke system

according to EN 14074, EN 14749, EN 1335-3, ES 1058 and BIFMA X5.1



Application:

The linear module is to use for tests of revolving doors, sliding doors, tambour doors, filing cabinets and drawers according to DIN EN 14749, DIN EN 14074 and other standards.

It is suitable also for the roll test in acc. to BIFMA/ANSI X5.1 and ES 1038 and can be operated with or without obstacles at seating furniture, containers or roller desks.

With the linear module a large number of test assemblies can be realised **easily, soundly and accurately** which would otherwise require complex constructions with eccentric drive, drag chains etc.

consisting of:

- servo electromotive actuator module with 950 mm stroke (toothed belt-driven, carriage roller guided)
- absolute position measuring system parallel to carriage movement
- integrated load cell of 2,000N nominal load, integrated in the force flow of the linear module
- accessories are needed for load transmission into the specimen which can be mounted to a standard D20 clamp connection
- the parameters load, position, speed (indirectly by setting time limits), number of cycles and pause times can be set with the standard software; it also allows for a free definition of the testing procedure

Possible use of linear module:



Fig. 1: Threshold test for rollers



Fig. 2: Drawer testing

Technical data:

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|-------------------------------------|--|---|
| field of application | Suitable for static, increasing or dynamic load of the test pieces in development and quality control during batch production | |
| system configuration | test rig (loads with horizontal direction) to act in combination with: PC for programming, visualization and evaluation | |
| parameter limits | loads: | up to 500 N (on request) |
| | distances: | up to 950 mm (on request) |
| | speed: | up to 0,5 m/s (on request) |
| | positioning accuracy: | ± 1 mm |
| | number of cycles: | 1 – 500,000 |
| | single cycle times: | 0.5 – 600 seconds |
| | working height: | 550 mm up to 1.250 mm above floor level |
| special features | <ul style="list-style-type: none"> • variety of fastening parts, grips and load pads available • the linear module is applicable to different test tasks, for example pull test at drawers, roll test with containers or opening and closing of cabinet doors | |
| input control unit | 3P/PE/400V/ 50Hz | |
| dimensions | 3600 x 1200 x 2100(length x width x height) | |
| weight | 400 kg | |
| not included (but necessary) | PC with accessories (screen, printer ...), software | |
| optional accessories | <ul style="list-style-type: none"> • option motorized setup mode for electromechanical linear axis (41-019-317-BG) • accessories for testing acc. ES1058, BIFMA X5.1: threshold test (41-020-002) • weights for threshold test acc. EX1058 and BIFMA X5.1 (41-011-190) • accessories for testing acc. ES1058, BIFMA X5.1: threshold test and acc. EN1335-3:2009 determination of rolling resistance (41-020-003) • adapter for drawer test (41-006-810) | |

Your contact person: