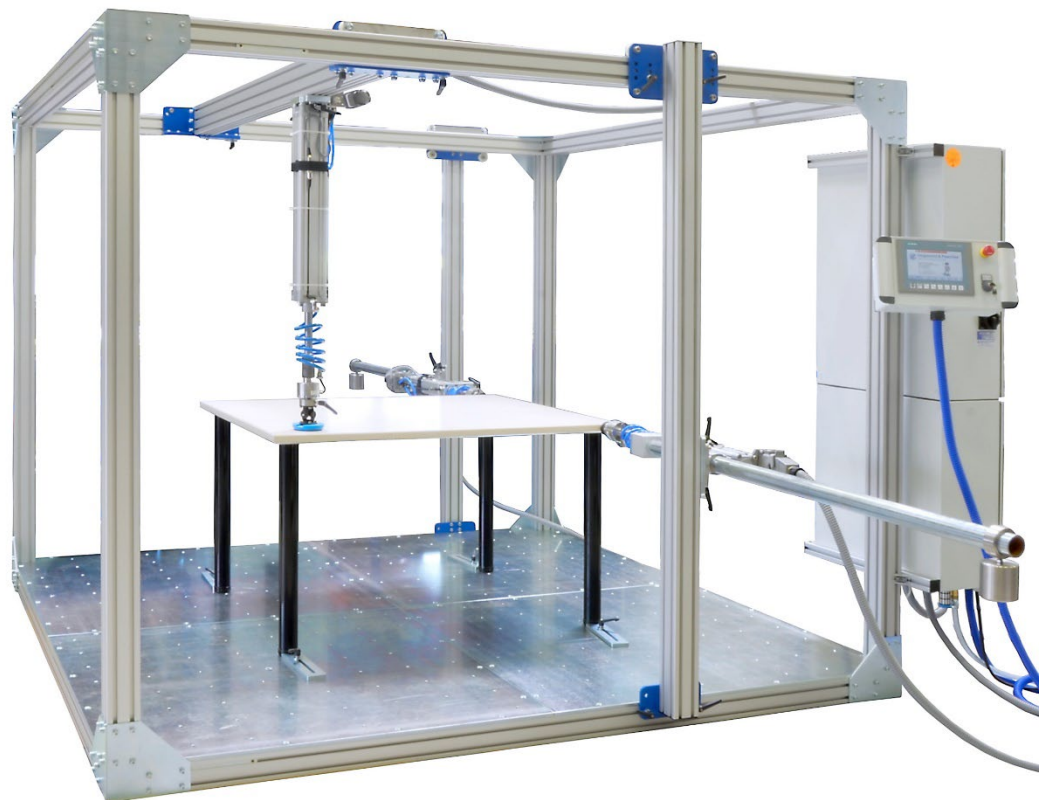




## Product Information

# Test rig for tables

e.g. acc. to EN 527, EN 581-3; EN 1729; EN 1730; EN 12521; DIN EN 14074; DIN 68885;  
3 test axis; Calmar I series





**Application:** Testing of tables, horizontal and vertical load application; e.g. according to EN 527, EN 581-3, EN 1729, EN 1730, EN 12521, DIN EN 14074, DIN 68885

The system is based on a PLC with data export functionality to a personal computer. The PLC with analogue value processing is directly mounted to the test rig in a handy panel, tiltable in the up/down and left/right direction to fit the user point of view. The touch panel allows the parameterization of tests and depicts the real time status of the connected test axis. The parameterization can be done individually and saved as a template or based on an prevalent standard conform template. For example parameters such as the amount of cycles, time intervalls, maximum and minimum values can be set.

During the test run the user can view the test status. E.g. the cycle number, failure messages and a graphical vizualization of the test run can be observed. At test end the control saves automatically all for the documentation necessary parameter and allows the export of the data to a computer for test reporting.

#### Consisting of:

- 1 box frame 2.4 x 2.4 m, based on 4 base plates 1200 x 1200mm, 12mm thick, material: galvanised steel, drill pattern with thread M 10 for flexible fixation of specimen and fixation elements; clearance height 1.8m, fram made of 80 x 80 R&K-light profile, screwed and stabilised with gusset plates at the corners
- 2 vertical and 1 horizontal profile as additional carrier possibilities for the test axis, mounting brackets, easy motion slide-guiding system
- 1 PLC with touch display in a handy panel tiltable in the up/down and left/right direction to fit the user point of view

- Centralized pressurized air connection with air conditioning unit consisting of filtering systems, pressurized air distributor and switch-on-valve
- 2 cylinders for horizontal load appication with tube connection to enlarge the reach, clamping adapter, 2 galvanised tubes, Fmax 1000N
- 1 cylinder for vertical load application, rigid fixation, Fmax 2500N
- Force regulation: 3 load cells or indirect force regulation *by pressure control valve*
- 2 loading pads Ø50 round, material polyamid, clamping connection diameter 20mm (41-006-120)
- 1 loading pad Ø100mm round, material: polyamid, clamping connection diameter 20mm (41-006-110)
- fixation elements for tables 12mm (40-001-117)
- 1 accessory box incl. 2 eyebolts and 2 straps for fixation of the specimen (40-001-059)

#### Technical data:

- power connection: 230VAC, 50Hz
- pneum. connection: pressurized air 6-10 bar, quality acc. ISO/DIS 8573-1
- control accuracy:  $\pm 5\%$  of set value above 20% of nominal load
- load resolution: 0.5N
- load accuracy:  $\pm 1\%$  of end value

#### Options:

- computer & monitor for data export
- remote maintenance modul (40-930-009)