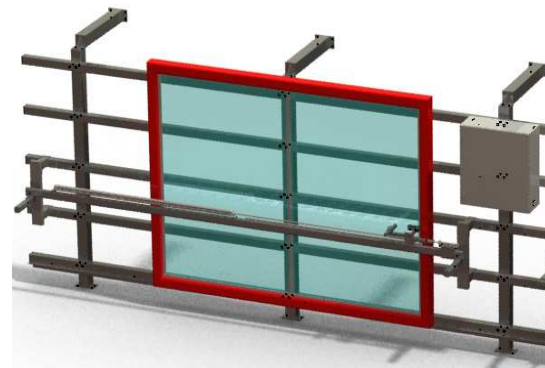


# Pneumatic test rig for durability testing of windows and doors

Long-life-cycle test rig for windows and doors

Type: DDK-P

Type: DDKS-P



## 1 Description pneumatic test rig for durability

Test rig and mountings for long life testing of windows and French windows. Turn/swivel as well as tilt function and simple sliding operation can be tested with this module.

The entire test arrangement is comprised of a clamping field, a control unit, and each with one drive unit for turn-, tilt- or slide-actuation.

For visualization and input a touch display is used. It also enables separate operation of the drive units. The delivery includes four velocity sensors for controlled and measured opening and closing.

A safety socket and a compressed air supply are required.

With the turn and tilt drive unit windows and French windows are tested up to a width of 1700 mm.

The DDKS-P module may be rebuilt without difficulty for any located side. Velocity and forces are adjusted with the control unit. A freely extendable cardan joint is attached to each drive unit. Thus the window opens and closes independently with an adjustable speed into the final start/stop position. All standard specifications are met.

Through an additional attachment a testing according to the standard EN 13126-8 via the tilt drive unit is possible. Additional feature can be added for testing the QM 328 standard as well.

The unit can be installed to the offered clamping walls. The ift clamping walls meet the standard

# Test rig for durability testing of windows and doors



for torsional stiffness and ensure a steady stable load. Individual adapters for existing clamping walls are available as well.

## 2 DDK durability test according to following standards

Testing characteristic	Standards
Durability window function	EN 1191
Optional durability French window function	EN 13126-8 QM 328

## 3 Technical data

- Dimensions clamping surface approx. 3,0 to 6,0 x 2,2 x 0, 8 in m (WxHxD) (individual sizes can be provided after consulting)
- PLC control with touch panel
- **ift** software (simultaneous control of two functional operations)
- Four velocity sensors for tilting inward, tilting outward, turning inward and a variable adjustable turning velocity
- Control cabinet colored in RAL 7035 (light grey)
- Required supply:
  - Safety socket: Schuko 16 A, 230 V
  - Compressed air: 8 bar

## 4 Scope of delivery

### Basic version

- Control cabinet:
  - PLC control with touch panel for handling and visualizing of the operated velocity
  - Special designed **ift** software (synchronous control of turning and tilting)
  - Handle pressure regulator
  - Four velocity sensors
  - Throttle for adjustment at the operating velocity
- Tilting actuation device (linear pneumatic actuator with tilting limit switch, pneumatic rotating actuator for handle operations)
- Turning actuation device (pneumatic rotating actuator with turning limit switch, pneumatic rotating actuator for handle operations)

## 5 Optional features / modifications

The following options can be offered on enquiry:

- Durability test rig for windows, combination of operation devices (as described in the basic version; main feature is the synchronous tilting/swiveling, turning and simple sliding operation of more than one specimen at the same time)
- Individual clamping wall (dimensions according to your need, incl. three steel beam for mounting on the floor, cross-beam, eight clamping elements, and support bracket)

## Test rig for durability testing of windows and doors



- Mounting bracket for double leaf doors (elements with a width of 2500 mm)
- Attachment for testing of fittings according to EN 13126-8 standard
- Dolly for modification of the devices (incl. swivel arm)
- Actuation device for lifting and sliding doors (all required components are included)
- Actuation device for lifting/sliding doors and parallel tilt slide windows (all required components are included)
- Calibration of the test rig
- Individual coating

Individual features, especially for your needs, can be provided after consulting.

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