Small but strong

The KS Pendulum Test Unit for windows and doors

Live Demo of youtube.com - Video KS Pendulum Test Unit

For the testing of the resistance of windows and doors the KS Pendulum Test Unit is the right choice. The mobile, compact test facility exist in two different specifications – with double tire or with sandbag* – it depends on the norm and test method.

The equipment with double tire fulfill the inspection request according to EN 13049 for fronts, EN 12600 for flat glass and EN 1629:2011 for burglary-resistant windows and doors under dynamic load.
All three norms defines the load of the elements at the collision of one soft and heavy impactor.

The second option is the equipment of the test rig with a 30 kg heavy drop shaped sandbag.
It allows the test procedure for determination of the resistance of doors according the norm EN 949.

Technical details KS Pendulum Test Unit	
Net weight	235 kg
Counter weights (removable)	5 x 20 kg
Weight double tire	50 kg
Weight sandbag	30 kg
Width of carrier	800 mm
Length of carrier	2000 mm
Mast height	2.000 mm - 7.500 mm
Testing height	0 - 6.000 mm

Equipment depending on norm standard with sandbag* or double tire possible.

Burglary-resistant of windows, glazed doors and doors Drop height for the dynamic test according EN 1629, List 5		
Resistance grade	Chassis of impactor	Drop height
WK 1	50 kg	450 mm
WK 2	50 kg	450 mm
WK 3	50 kg	750 mm
WK 4 - 6	Not dynamic test necessary	

* Optional available

The bullet force the point of impact on the test block.

By pulling the ripcord the pendulum is released.

The mast is moved by a crank drive to the desired impact position.

Standard conform reconstructed

The KS Glasmax attend as basic construction for the new KS Pendulum Test Unit. Instead of the equipment with glass suction unit, the KS Glasmax was converted according to the standard requirements.
The advantage is the test rig will be mobile and is therefore easy to position.

The impactors pendulous mounted on a mast with horizontal slewing mechanism and fixed on a steel cable. The pendulum is tiggered easy via a tigger line. The mast is adjustable by a crank drive in height, the horizontal slewing mechanism in the inclination. Thus the height that is specified in the norm can be set easily and quickly.

The impact spot on the test block according the norm, so-called load locus, can be positioned over a target ball. With that the operator can adjust the pendulum shuttle easy of the ground withour using a raised platform.
Even more comfortable is to set up the pendulum with the equipment of the test rig with electric drive* instead of hand winch.

Different drop heights can be adjusted easily.

Advantages
KS Pendulum Test Unit

- Mobile and compact
- Durable, massive construction
- Easy to handle
- Easy tiggering of the pendulum
- Angle of inclination easy adjustable
- Easy height adjustment by crank drive
- Multiple use as lifting equipment KS Glasmax possible

* Electric drive with charge