WPM Leipzig
Testing Machines

Shock Test Bench SPT 50-15

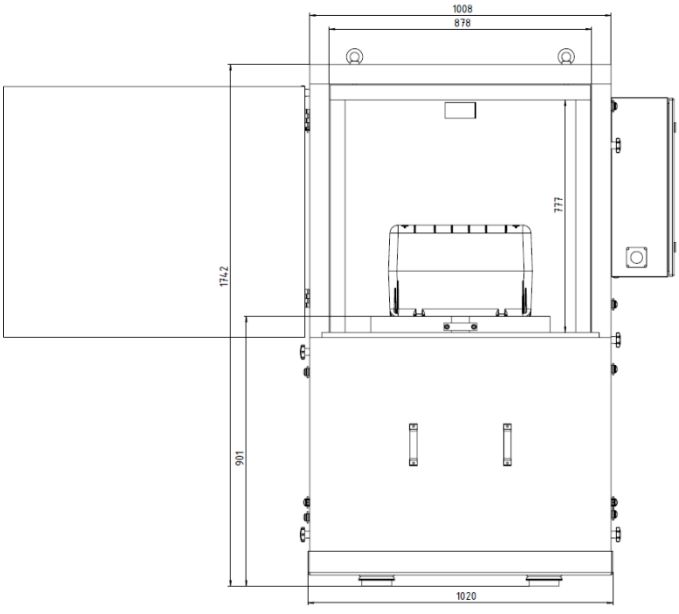
Kögel Werkstoff- und Materialprüfsysteme GmbH
Plant location Wachau
Nordstraße 15
04416 Markkleeberg
Germany
Phone: +49 34297 1435-0
Fax: +49 34297 1435-10
Email: info@wpm-leipzig.de
Internet: www.wpm-leipzig.de

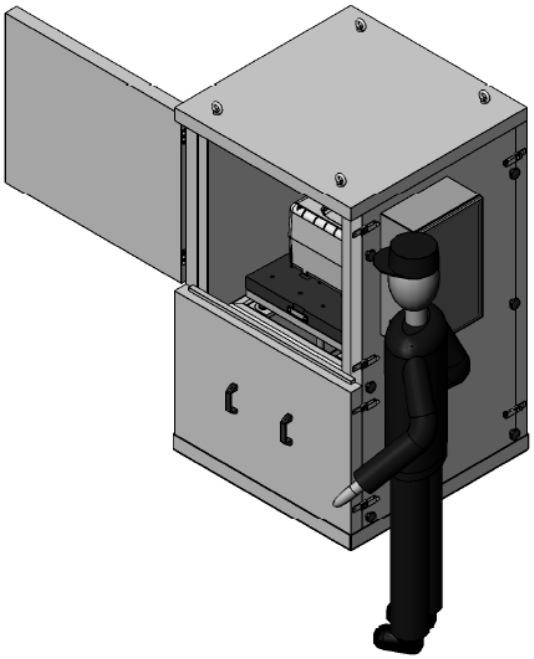
Shock Test Bench SPT 50-15

The electrically driven mechanical shock test bench serves for examining components and assemblies by shocks or shock-like loads. The shocks imitate in a simple way loads occurring for instance when transporting gadgets.

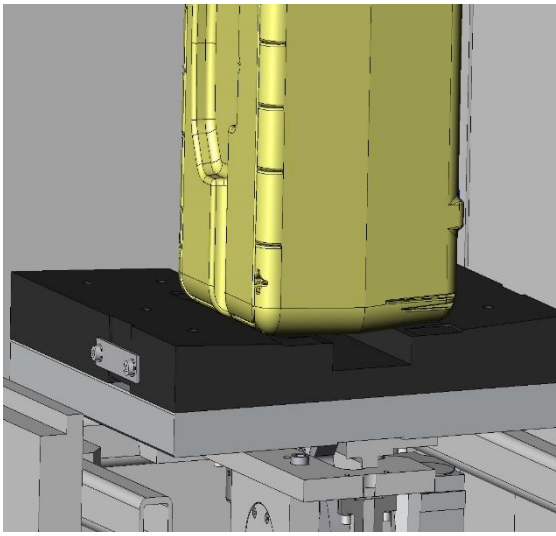
At a glance
Technical Data

Acceleration at shock	approx. 15 g	
Shock width	approx. 10 ms	
Shock frequency	approx. 1 Hz	
Maximum test weight	50 kg	
Noise pollution with safety enclosure	85 dB	
Test room	Clamping surface table: 600 x 600 mm Free height between table and enclosure: 700 mm	
Dimensions machine	Total height: Width: Depth:	1780 mm 1300 mm 1150 mm
Total weight	580 kg	
Power supply	1~ 230 V ±10%, 50 Hz	





Highlights



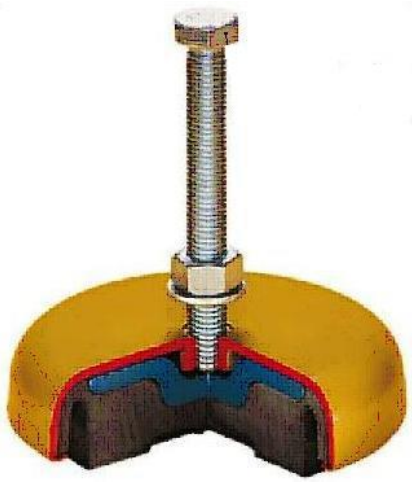
- **Flexibility**

  An adapter plate is mounted on the test table, specially designed for the transport container. By changing the adapter plate, different specimens can be fixed on the table plate. The drop height can by adjusted at the shock absorbers by means of counter nuts.

- **Simple Operation**

  The shock test bench is switched on and off at the operating panel outside the safety enclosure. The number of shocks is counted and displayed by a counting device. When reaching the preset limit number, the test procedure is stopped.

  As an option, the shock frequency can be adjusted.

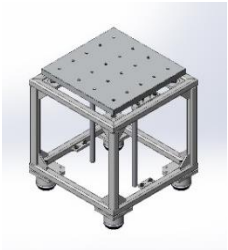


- **Effective shock absorption**

  The shocks are absorbed by the housing. By doing so, shock plates distribute the load to the shock absorbers which prevent the shocks from being transferred to the floor.

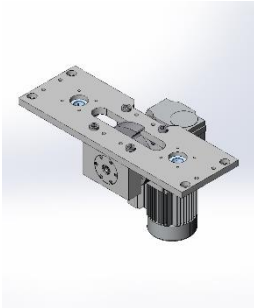
  The testing machine is set on the floor with adjustable mounting foots with rubber spring elements. They serve to minimize the transfer of the remaining vibrations to the floor.

Component	Description



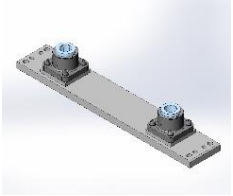
Testing machine frame

The machine frame connects the drive unit with the test table.
It consists of frame welded out of steel hollow profiles. The frame is stiffened by gusset plays. Moreover, various metal sheets are welded on to bear the shock absorbers, the adjustment device for tension spring, drive unit and the lower guide.



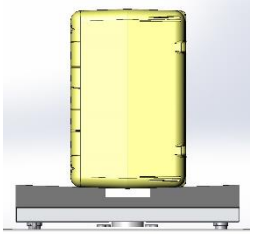
Drive unit

The drive unit drives the rotary cam, generating the shocks
An initiator monitors the rotation of the rotary cam. By means of column guides, the table is guided and appearing shear forces are absorbed.



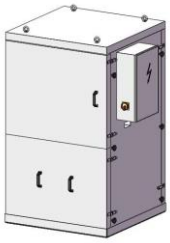
Lower guide

In order to increase stability, another guide is provided. This one guides the columns, as well, and absorbs shear forces.



Test table with adapter plate

The test table bears the adapter plate (customer-specific). This adapter plate is specially designed to bear two transport containers. However, it is also possible to fix other specimens on the table plate.
Two shock plates distribute the load on the shock absorbers.
All components and assemblies are secured against unintentional loosening by appropriate means.



Noise insulation enclosure

The noise insulation enclosure reduces the noise and protects the operator from reaching into the working area during the test process.
The door of the noise insulation enclosure is secured against opening during operation with a locking switch.

Curious?
Visit our website: **www.wpm-leipzig.de**