WPM Leipzig
Testing Machines

Pendulum Impact Tester PSd 50

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Pendulum Impact Tester PSd 50

Technical Specification

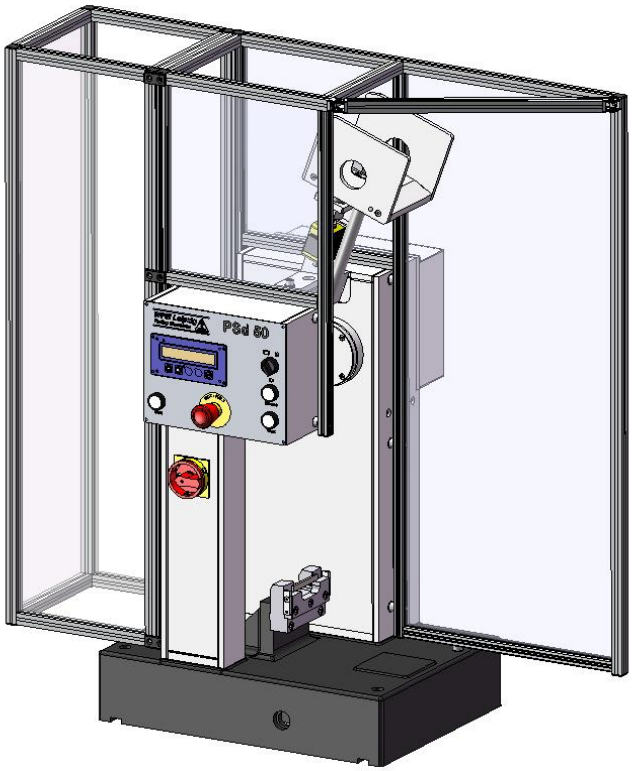
Acc. to technical conditions of standards DIN EN ISO 148-1, DIN EN ISO 148-2, DIN 51222, DIN EN ISO 13802, ASTM E 23, GOST 10708 and GOST R ISO 148-1
as well as applying corresponding special accessories acc. to

- Notched-bar impact tests based on Charpy on plastics acc. to standards DIN EN ISO 179-1, DIN EN ISO 179-2 as well as GOST 4647

- Notched-bar impact tests based on Izod on plastics acc. to standards DIN EN ISO 180, ASTM D 256 as well as GOST 19109

- Tensile-impact strength tests on plastics acc. to standards DIN EN ISO 8256 as well as ASTM D 1822

- Impact tests for testing of zinc and zinc alloys acc. to standard DIN 50116



BASIC	Configuration Basic Unit
PSD50-BE 	**Basic Unit PSd 50** • Rigid, box-type frame with optimized vibration absorption • Pendulum rod prepared for fixing the U-hammer with hammer edge for tests acc. to Charpy, to Izod or for tension impact tests (exchangeable) • Manual hammer lifting and latching the retaining arm (fixed stop) distance from rotation axis to the centre of specimen 380 mm drop angle 160 ° impact velocity 3,8 m/s • Electrically operated release of the safety catch of the pendulum (two-hand operation) • Braking the hammer with electro-mechanical braking device • Central abutment bracket to fix interconvertible supports depending on the specimen • Measured value acquisition by incremental encoder • Control system (PLC process) • Digital numeric display with decimal places absorbed impact energy 4 digits indication range (e.g. of hammer 50 J) 0 … 50 J digit increment 0,01 J • Output of measured values with connection for printer interface (Ethernet) • Protective box to collect specimen remnants
EH-PSD50 	**Safety enclosure** The safety enclosure acc. to standard DIN 51233 meets all technical safety requirements. It encloses the full swinging area of the pendulum and consists of a frame with polycarbonate panes. The release of the safety catch of the pendulum is possible only in two-hand operating.
EHG-PSD50 	**Option closed safety enclosure** Protection during testing of brittle materials against flying specimen remnants
PH50-U 	**Pendulum hammer 50 without hammer edge** Weight of the 50 J pendulum hammer 6.917 kg Potential energy 50 J
PH25-U 	**Pendulum hammer 25 without hammer edge** Weight of the 25 J pendulum hammer 3.458 kg Potential energy 25 J
PH50A-U 	**Upgrade kit pendulum hammer 25 to 50 without hammer edge** Weight of the upgraded 50 J pendulum hammer 6.917 kg Potential energy 50 J
PH15-U	**Pendulum hammer 15 without hammer edge** Weight of the 15 J pendulum hammer 2.075 kg Potential energy 15 J

Accessories for tests based on Charpy (50/25/15 J)
(according to standards DIN EN ISO 179-1, DIN EN ISO 179-2 and GOST 4647):

- Hammer edges for pendulum hammer 50, 25 and 15
- Supports for different specimen dimensions (flatwise and edgewise impact)

Accessories for tests based on Izod (50/25/15 J)
(according to standards DIN EN ISO 180, ASTM D 256 and GOST 19109):

- Hammer edges for pendulum hammer 50, 25 and 15
- Supports for specimens with clamping parts with different cross-sections
- Clamping parts for different specimen dimensions

Accessories for tension impact tests
(according to standards DIN EN ISO 8256 and ASTM D 1822)

- Strike fork for pendulum hammer 50, 25 and 15
- Supports for specimens with clamping parts with different cross-sections
- Clamping parts for different specimen dimensions

Accessories (optional)

- Adjustable drop angle
  - for manual, continuous adjustment of retaining arm
  - digital pre-selection and indication of potential energy in the range of 20% to 100% of the maximum value
  - adjustable drop angle 52° 19'... 160°
  - impact velocity 1.7 ... 3.8 m/s

- Automatic pendulum detection
  - for automatic detection of assembled pendulum

- Low-vibration mounting table
  - sturdy, torsion-resistant steel construction with wooden work plate and levelling feet
  - realized necessary weight of base
  - dimensions (W x D x H) 1500 x 750 x 840 mm
  - load capacity up to 600 kg

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