

General Information:

- Force Tester for pull and press force tests in material testing and quality control, e. g. for pull-off test at crimped terminals, connectors, components, etc.
- Indication range: 0 to 500 N
- Resolution: 0.5 N.
- Accuracy class 0.5
- Easy to operate and space-saving testers.
- Manual operation by hand lever.
- **Model PTC 50** with hand lever and cable clamping fixture with automatic gripping during hand lever actuation.
- **Model PTH 50** with hand lever and load slide with precise linear motion, load slide stroke ca. 50 mm, quick change tool fitting on measuring point and load slide for clamping tool and test fixture assembly.
- Indication and operation of the measuring system via durable infrared sensor screen with dot matrix LCD-Display.
- High measuring accuracy and repeatability.
- 10000 Hz internal update rate for exact force readings.
- Peak Point Mode with indication of the highest measured force value.
- Tracking Mode with indication of current force values.
- Tare compensation.
- Optical and acoustic overload indication.
- Serial port for data output of measured value.
- Setup menu for internal parameter setting and adjustment.
- Mechanical overload protection of load cell up to 3500 N.
- Maintenance-free and durable all metal construction.
- Quick change tool mounting adapters for tool and test fixture assembly.



PTC 50 with SG 80 and automatic cable clamping fixture



PTH 50 with SG 80 and MK-8/A

Clamping Tools and Test Fixtures:

Turntable	UDT 100
Clamping Crowns	SG 80
Quick Action Grippers	KSH-6, KSP-8, SHA-12, SHA-20
Cable Clamps	MK-8, DKS-20
Comb Tools	KW 1, KW 2
Miniature Grips	FSEL
Tool Set	KBP for testing cable tie pistols
Step Cone	KBS for testing cable ties
Tool Set	KLH for insertion and extraction tests

Please see our catalogue for additional standard tools and tool specifications. Customer-specific special test fixtures and tools on request.



PTH 50 with SG 80 and MK-8/A

Technical Specifications:

Load device PTC 50 Tester:

Capacity: 500 N.
 Dimensions: ca. 116x275x124 mm (WxDxH);
 Weight: ca. 8 kg;
 Construction: Maintenance-free all metal construction.
 Housing: Aluminium
 Finish: Anodised oxide layer, blue.
 Load device: Parallel stroke of load slide, precise linear motion, hand lever actuation, cable clamping fixture with automatic gripping during hand lever actuation, quick change tool mounting adapter on measuring point for tool and test fixture assembly.
 Load slide stroke: ca. 50 mm.

Load device PTH 50 Tester:

Capacity: 500 N.
 Dimensions: ca. 116x275x124 mm (WxDxH);
 Weight: ca. 8 kg;
 Construction: Maintenance-free all metal construction.
 Housing: Aluminium
 Finish: Anodised oxide layer, blue.
 Load device: Parallel stroke of load slide, precise linear motion, hand lever actuation, load slide with precise linear motion, quick change tool mounting adapters on measuring point and load slide for clamping tool and test fixture assembly.
 Load slide stroke: ca. 50 mm.

Technical Specifications:

Model Designations: PTC 50, PTH 50:

Indication Range: 0 to 500 N.
 Resolution: 0.5 N
 Rel. accuracy error: $\leq \pm 0,5\% \pm \text{LSD}$
 (within the measuring range).

Force Measuring System:

Control Unit:

Dimensions: ca. 125x105x70 mm (WxDxH);
 Supply voltage: 12-24 V DC.

Force Transducer:

DMS-load cells type MWM 80108 with integrated AD-converter and RS485 bus. Overload protection up to 3500 N.

Display:

Dot matrix LCD display with LED background lighting, 128x64 pixel, 56.3x38.4 mm. LCD update rate: 5 Hz.

Operation:

Operation of all displayed keys via infrared sensor screen.

Evaluation:

Internal measuring rate: 10000 Hz;
 Operating Modes: Tracking Mode and Peak Point Mode;
 Tare compensation;
 Single output of measured value via serial port;
 Overload indication;
 Setup Menu internal parameter selection and adjustment of measuring system;
 Language for setup menu selectable: D, E

Serial Port:

RS232C
 selectable parameters:
 300-76800 Baud,
 7/8 data bits, 1/2 stop bits,
 parity: none/even/odd.
 connector: RJ45.



Optional Accessories:

- Mini Table Printer
- Data Transmission Cable for printer connection
- Data Transmission Cable for PC connection
- Keystast Interface
- Please see our catalogue for additional accessories.