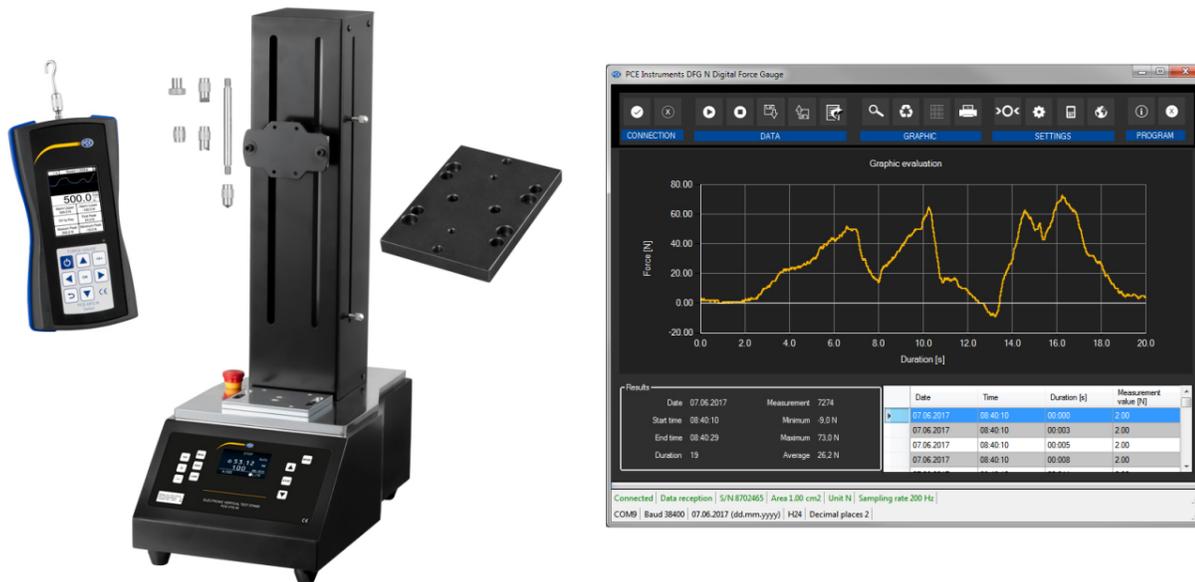


# PCE-VTS 50-DFG N 500-KIT incl. Force Test Stand and Force Gauge



## Digital Force Gauge

**Digital force gauge for tensile force measurement and compressive force measurement up to 500 N /  
Very high accuracy / Sampling rate 1600 Hz / 6 different measuring tips /  
USB interface / Software**

The digital force gauge is for tensile and compressive force measurements up to 500 N. The digital force gauge provides precise measurements with a resolution of 0.1 N. The measured values are shown on a large, illuminated display that can be rotated by 180°, so that the measured values can be read in the correct position at all times. There is an excellent accuracy of  $\pm 0.1\%$ .

In addition to the internal storage facility for 100 measured values, a USB interface is available for data transfer. The software can be used to save the measured values on a computer for later evaluation.

Due to its robust housing, sensible menu navigation and simple operation via 8 buttons, the digital force gauge is characterized by a high level of user-friendliness. The force meter is powered by rechargeable batteries, which can be charged using a charger included in the scope of delivery and enable the device to operate continuously for 10 hours. With these properties, the digital force gauge is suitable for quality control in the production area, for incoming and outgoing goods control as well as for the development of new components or for testing safety-relevant components.

**Motorized test stand up to 500 N, All force gauges of the PCE series with internal and external force measuring cell adaptable, Large travel distance, Adjustable feed speed**

The motorized force test stand can be used for vertical tensile and compressive force tests. All force gauges from PCE Instruments can be mounted on the force test stand (if necessary with an adapter plate). The force test stand can withstand a maximum load of 500 N. The use of the motorized test stand offers the operator the most precise equality of test stand and sample. The automatic test mode allows tests to be carried out automatically up to a certain point using the test stand. A manual force test mode allows forces to be applied at specific points.

The maximum force range of the motorized test stand is 50 kg. The force test stand is operated via mains voltage.

### Force Test Stand

- ▶ Adjustable feed speed
- ▶ Robust steel design
- ▶ Adjustable travel

Subject to change

- ▶ Large force measuring range up to 500 N
- ▶ Mains connection
- ▶ All PCE devices adaptable
- ▶ Manual or automatic procedure

#### **Force gauge**

- ▶ Tensile and compressive force measurement
- ▶ 1600 Hz sampling rate
- ▶ Error limit 0.1% of the measuring range
- ▶ PEAK function (MIN / MAX)
- ▶ Limit function
- ▶ Different units of measurement
- ▶ Automatic or manual storage
- ▶ Graphical analysis
- ▶ Display with automatic alignment
- ▶ Time / Date
- ▶ Control and evaluation software
- ▶ Adjustable automatic switch-off
- ▶ Battery level indicator
- ▶ Network operation possible
- ▶ Storage of 1000 measured values

# Specifications

## Force Test Stand

Force range	<b>500 N / 50 kg / 110 lb</b>
Distance display resolution	<b>0.02 mm</b>
Travel path	<b>270 mm / 10.6"</b>
Speed	1 ... 500 mm/min
Resolution	1 mm/min
Speed accuracy	2 %
Power supply	220 ... 240 V AC, 1.5 A
Fuse	2 A
Ambient conditions	20 °C ±10 °C, 15 ... 80 % RH
Dimensions	45 x 26 x 68 cm / 17.7 x 10.2 x 26.7"
Weight	35 kg / 77 lb
Measuring range	0 ... 500 N
Accuracy	± 0.1% of the measuring range
Resolution	0.1 N

## Force Gauge

Measurement units	N, kg, lb, KPa
Display	2.8" TFT graphic display
Alarm Modes	Inside, Outside, Crack, Shutdown
Sampling rate	6 ... 1600 Hz
Storage	100 measurements
power supply	NiMh battery 6V / 1600-mAh
Battery life	about 10 hours
Charging adapter	12V / 1A
Outputs	Interface: USB Switching output: 12 V / 50-mA
Protection class	IP 54
Operating and storage conditions	-10 ... 50°C / 14 ... 122°F 5 ... 95% rh non-condensing
Force-receiving piece	6 x 7 mm / .2 x .3 in
Dimensions	200 x 97 x 42 mm / 7.9 x 3.8 x 1.7 in
Weight	540 g / 1.2 lbs

# More information

## More product info



## Similar products



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