

FORCE MEASUREMENT TEST STAND FOR FORCE GAUGE

PCE-MTS500-FD 300 KIT

Motorized force test stand for force-distance-measurement

The motorised material test stand PCE-MTS500-FD 300 KIT can be used to create force-distance diagrams and curves. The software included in the scope of delivery offers the user an optimised interface for evaluating force-displacement diagrams and graphs. In this way, material tests with forces of up to 5000 N (500 kg) can be realised. To perform a force-distance measurement, a tensile test is carried out first.

In this tensile test, a sample or the component to be tested is fixed in a test stand by means of clamping devices. Subsequently, this test stand generates a tensile force which results in an elongation of the component or the sample.

ISO cal option

- » length measuring device: -150 ... 150 mm / -5.9 ... 5.9"
- » adjustable feed speed
- » robust steel design
- » adjustable travel
- » large force measuring range up to 5000N
- » mains connection
- » manual or automatic system
- » all PCE force devices adaptable



APPLICATION



TECHNICAL SPECIFICATIONS

Force range	max. 5000 N (500 kg / 1100 lbs)
Travel distance	max. 300 mm / 11.8"
Feed rate	30 ... 230 mm/min / 1.18 ... 9.05 in/min
Test table	Ø 160 mm / 6.3"
Sample width	max. 200 mm / 7.9"
Guide columns	Ø 32 mm / 1.3"
Dimensions	1020 x 400 x 250 mm / 40.2 x 15.7 x 9.8"
Weight	ca. 60 kg / 132 lbs

Length measuring device PCE-DFG FD 300

Measuring range	-150 ... 150 mm / -5.9 ... 5.9"
Resolution	0.01 mm / 0.0004"
Accuracy	±0.03 mm / 0.001"
Operating conditions	Temperature: 0 ... +50 °C / 32 ... 122 °F
Storage conditions	Temperature: -20 ... +65 °C / -4 ... 149 °F
	Humidity: 10 ... 95 % RH, non-condensing
Weight	360 g / 12.7 oz
Power supply	3VCR 2032
Dimensions	394 x 40 x 10 mm / 15.5 x 1.5 x 0.4" (HxWxD)

Optional accessories:

Set of thrust washers (square) for engine test stand	Order code MTS-DSE
Thrust washer set (round) for engine test bench	Order code MTS-DSR
Adapter Plate for Force test stand	Order code ADP-UNI
Universal clamping device	Order code PCE-SJJ017
Clamping device for tensile tests	Order code PCE-SJJ012
Fork holder for tensile & compr. tests	Order code PCE-SJJ09
Adaptor clamp for tensile tests	Order code PCE-SJJ06
Round adaptor stamp for compr. tests	Order code PCE-SJJ04
Adaptor for compr. tests	Order code PCE-SJJ01
Adapter Ring for Tensile Tests	Order code PCE-SJJ02
Clamping Device for test stand	Order code PCE-SJJ03
Clamp Jaw for test stand	Order code PCE-SJJ05
Clamp Jaw for test stand	Order code PCE-SJJ011
Clamp Jaw for test stand	Order code PCE-SJJ013
Clamping device for test stand	Order code PCE-SJJ015
Universal Clamping Device	Order code PCE-SJJ031



Subject to change without notice