

Tension Dynamometer for Peel Tests PCE-PST 1



PCE-PST 1 Tension dynamometer

Measures the adhesion to substrates / Mobile, rugged design / Measures up to 500 N (50 kg / 110 lbs) / High accuracy / PC evaluation possible

PCE-PST 1 tension dynamometer is designed to check the adhesive force of edges on support materials. With the tension dynamometer, checks can be made with respect to the quality of workmanship. Feed speed, travel distance, tension, and traction angle are fixed. Ball transfer units on the guide surface of the Test Stand reduce the coefficient of friction. Likewise the self-locking jaws and smooth guide rollers always guarantee reproducible and comparable results. Measurement errors caused by the "human factor" are reduced to a minimum.

The PCE-PST 1 tension dynamometer is designed for adhesive forces up to 500 N or 110 pounds. With a travel distance of 100 mm (3.9 in) and a feed rate of 0.3 m / min (11.8 in / min), testing an edge can be performed by trained personnel in less than a minute. After clamping the test edge, measurement takes place in automatic mode as soon as the triggering force of 20 N or 4.5 lbs is reached. At the end of the measurement process, statistical data appears on the display, including Min. and Max. values, as well as an average value of peel strength. If necessary, the evaluation of the measurement can also be done via the included software which enables different statistical values and the display of a force-time diagram.

- ▶ For adhesive forces to 500 N or 110 pounds
- ▶ High repeatability
- ▶ Defined test parameters
- ▶ Mobile implementation
- ▶ Automatic and manual measurement mode
- ▶ Evaluation via software

Specifications

Measuring range	500 N / 50 kg / 110 lbs
Measurable edge thickness	0.4 mm ... 3.5 mm
	0.02 in ... 0.14 in
Measurable plate thicknesses	10 mm ... 64 mm
	0.4 in ... 2.5 in
Travel speed	0.3 m/min / 11.8 in/min
Traverse	100 mm / 3.9 in
Measurement accuracy	± 0.1% of the measuring range
Resolution	0.1 N / 0.010 kg / 0.02 lbs
Max. overload	± 20%
Display	Graphic display with backlight
	61 mm x 34 mm / 2.4 in x 1.3 in
Operating modes	Manual / automatic
Interface	USB
Environmental conditions	-10°C ... 40°C / 14°F ... 104°F
Weight	ca. 9 kg / 19.8 lbs
Power supply	230V / 110V / 12V; 1.2 A
Dimensions (LxWxH)	490 mm x 210 mm x 150 mm
	19.3 in x 8.3 in x 5.9 in

More information

Manual



Video



Video Manual



More product info



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