

AUTOMATIC ADHESION TESTER

PCE-AAT 500



- » **electronically controlled hydraulic pump**
- » **various measuring head sizes available**
- » **adjustable pulling speed, limit and holding time**
- » **graphical measuring process**
- » **5-inch touch screen**
- » **USB interface**
- » **storage in csv file format**

The automatic adhesion tester is a portable, hand-operated device that measures the force required to pull a specific diameter of coating from the substrate using hydraulic pressure. The measured pressure is displayed on the 5-inch touch screen and represents the adhesion strength of the coating to the substrate. This device evaluates the adhesion (peel strength) of a coating by determining the maximum tensile force it can withstand before it peels off. The automatic adhesion tester visualises fractures caused by cracks along the weakest layer in the system of carrier, adhesive, coating layers and substrate.

Equipped with an electronically controlled hydraulic pump, our automatic adhesion tester enables precise and repeatable application of the required tensile force. Thanks to the selection of different dolly sizes, the device can be flexibly adapted to different test requirements, making it particularly versatile. The pulling speed, load limit and holding time can be customised to meet specific requirements for different materials and applications.

In addition, the automatic adhesion tester offers a USB interface for easy transfer of measurement data to external devices. The data can be saved in practical CSV format for easy further processing and analysis. You can find additional and replacement measuring heads as well as the right base for your needs in the accessories.

Specification

Pressure	
Measurement range up to	0,1 ... 80 MPa
Resolution	0,01 MPa
Accuracy	±1 % FS
Pressure	
Measurement range up to	14 ... 11600 psi
Resolution	1 psi
Accuracy	±1 % FS

General technical data	
Units	MPa, psi
Display type	LCD touchscreen
Display size	4,8 Inch
Storage medium	Internal memory
Storage capacity	16 MB
Interface	USB
Standard(s)	GB/T 5210, ASTM D4541/D7234, ISO 4624/16276-1
Automatic power-off	10 min
Menu language	English (GB), English, Chinese
Protection class (device)	IP40
Power supply	100 ... 240 V AC 50/60 Hz
Connector type	Euro plug
Weight	4,1 kg
Operating conditions	0 ... 50 °C , 10 ... 90 % RH
Storage conditions	0 ... 50 °C , 10 ... 90 % RH
(Rechargeable) battery	1 x 3,7 V 18650 , Lithium-ion battery
Capacity	3400 mAh
Dimensions (L x W x H)	360 x 100 x 130 mm