

AT101/40kN Adhesion tester

Powerful automatic adhesion testing machine with full-scale pull force of 40kN. This model is designed for two main testing applications:

1. Tensile adhesion testing of thermal sprayed coatings using Ø25mm (1 inch) test cylinders either on test panels or two cylinders glued together (ASTM-C633) ASTM-jig is an optional accessory.
2. Tensile pull testing of high strength concrete using Ø50mm (2 inches) or Ø70mm



In addition, this adhesion-testing machine is used for pure tensile testing of various materials where strain measurements are not required.

Different test ranges are achieved by using different test element sizes (see table below).



Description

- Portable and simple to use.
- Produces comparable test results both in the laboratory and on site.
- Precision gauge with both MPa (N/mm²) and p.s.i. reading.
- Simple layout of control panel.
- Rate of tensile force increase is infinitely variable between zero MPa/sec (standstill) up to maximum rate (the rate depends on the size test element used).
- 110/230V main power. Battery power is an optional extra.
- **All AT101 adhesion testing machine models can have the data logging module built in when new or retro-fitted into existing units.**
- Testing of coatings on any shaped substrates, e.g. inside and outside pipe surfaces.
- Supplied in solid aluminum case.

Order # **123-AT101-40kN**

Price \$ Please request a quote.

INCLUDED WITH STANDARD MODEL

- Automatic hydraulic pump unit with control display
- Hydraulic cable
- PAT testing head 40kN
- Adapter for main power
- Aluminum carry-case with protective interior
- Calibration Certificate

TESTING RANGE

Test element size (diameter mm)	Full Scale		Certified testing range	
	MPa	psi	MPa	psi
70.7	10	1450	8.5	1230
50	20	2900	17	2400
25	80	11600	68	9800
50 x 50mm	15.7	2270	13.3	1930

TECHNICAL DATA

Maximum certified pull force	34 kN
Accuracy	±1% of full scale
Power	110/230V AC
Battery	Optional
Hydraulic System Drive	Two-step servo motor
Weight complete in case	8.2 kg
Case Dimensions (WxLxH)	430 x 325 x 145mm / 17x13x6 inches
Complies with:	ISO 4924, EN24624, ASTM D4541, etc.