PAPWORTHS CONSTRUCTION TESTING EQUIPMENT

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www.pcte.com.au

Dy-2 Pull-Off Tester

Introduction

The DY-2 family of automated pull-off testers covers the complete range of pull-off applications with unmatched ease of operation and a unique capability to store a complete record of the test.

The DY-2 is further unique in that it records every single test parameter required by the specification.

- Time and date of the test
- Test disc size
- Maximum load applied
- Automatic calculation of bond strength
- Applied load rate with graphical record
- Complete time of test
- Failure mode

For the very first time, the operator is able to provide a complete record of the pull-off test, proving that the test was carried out in accordance with the applicable standard.

Three versions of DY-2 are available differentiated by maximum pulling force. This covers the complete range of pull-off applications (examples for Ø 50mm test discs) for normal, low strength such as mortar or high strength such as carbon fiber reinforced polymer.

Dy – 2 Models

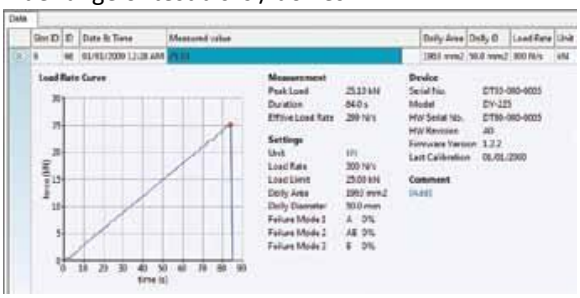
	Working Range*	
	Tensile Force	**Test Disc Ø 50mm**
DY-206	0.6 - 6 kN	0.3 - 3.1 MPa
	135 - 1349 lbf	44 - 443 psi
DY-216	1.6 - 15.5 kN	0.81 - 7.8 MPa
	360 - 3485 lbf	118 - 1145 psi
DY-225	2.5 - 25 kN	1.3 - 12.7 MPa
	562 - 5620 lbf	185 - 1847 psi

*Working range between 20% and 100% of maximum load has a 1% class 1 tolerance, 10% of maximum load to 100% a 2% class 2 tolerance, class 2 is still compliant with all standards.

DY-206 has increased accuracy for low strength applications such as testing adhesive strength of mortars and renders. DY-216 covering most applications. DY-225 for very high strength applications such as testing of fibre reinforced polymers bonded to concrete structures or testing the bond strength of repair and overlay materials.

Features

- Integrated, feedback controlled motor removes operator variations by fully automated testing at a constant load rate which can be verified.
- Full data logging including failure mode entry options for up to
- Automatic calculation of strength for different test discs without recalibration of system
- Dy-Link software displays complete record of test including load rate graph
- Wide range of test disks / dollies



Applications

- Concrete or shotcrete tensile strength measurement
- Measuring the bond of overlays, renders or repairs
- Coating adhesion
- Pull of testing is also used for exotic testing applications such as testing the integrity of laminated carbon brake disks

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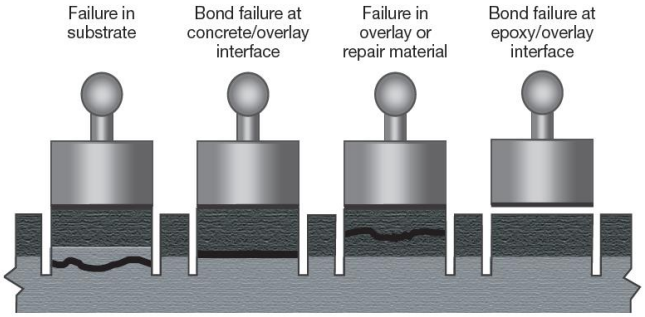
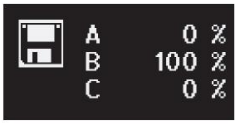
Benefits

- Failure mode reporting – The Dyna is unique in allowing the operator to record the location of the break during a test in the same record as the strength measurement.



For example „B 100%“ indicates a complete failure in the overlay or repair material.



- Six month mechanical and 2 year electronic component warranty
- Dy-2 is calibrated to EN ISO 7500-1 Class 1, this calibration exceeds the accuracy requirements of all standards stated later in this brochure

Accessories

Test discs

Size (mm)	Materials	No	Thread
20∅	Al	10	M10
50∅	Al or Fe	10	M10
75∅	Al	5	M10
100∅	Al	3	M10
50x50	Al	10	M10
40x40	Al	10	M10
100x100	Al	3	M10

TECHNICAL SPECIFICATIONS

Accuracy and Resolution	EN ISO 7500-1 Class 1 (±1%)
Memory capacity	100 measurements
Battery capacity	1500 mAh, 3.7V (min. 80 measurements)
Charger connection	USB type A (5V, 500mA)
Weight	4.5 kg
Dimensions of housing	109 x 240 x 205.5 mm
Operating temperature	-10 to 50°C (32 to 122°F)
Storage temperature	-10 to 70°C (14 to 158°F)

Applicable Standards

- ISO 4624 CEN/TC 125
- EN 1452/1015-12/1348
- ASTM C 4541 / ACI 503-30
- ASTM D 7234-05 / D7522 / D4541
- ZTV-SIB 90

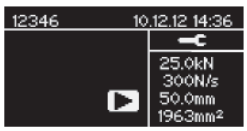
Menu System Illustration

Select UNIT

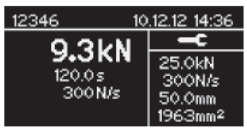
Select size of TEST DISC

Select LOAD RATE

Start TEST



RESULT



About PCTE

PCTE have over 30 years' experience in the measurement and testing of concrete. With experience in research, consulting and construction they are able to assist you in reviewing the issues and developing solutions. PCTE can provide more than just the equipment. They can provide leading technical support for your business.

Other Equipment

The full Proceq range of equipment is available for insitu non-destructive concrete measurement, including Schmidt Hammers, Covermeters, Half Potentials, Resistivity, Ultrasonics and Permeability.

The Olson Instrument range also includes the CTG, Freedom Data PC and DAS as well as the resonance tester.

We also supply IntelliRock maturity, temp and humidity logging systems, corrosion rate monitoring equipment & GPR.