DRC
Diagnostic Research Company
Non Destructive Testing

LDV PULL-OFF TESTER

The LDV PULL-OFF Tester is made in accordance with all major global standards

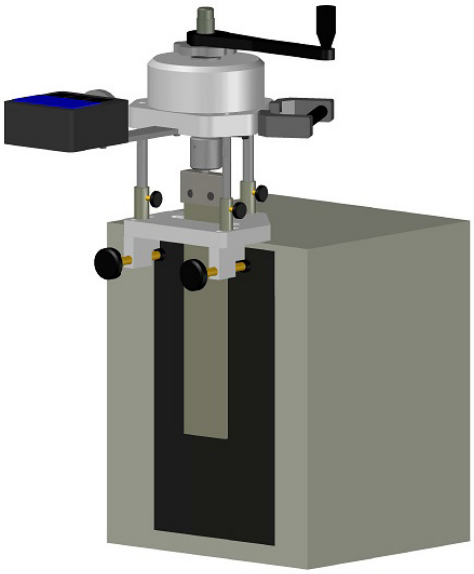
- EN 1015-12
- EN 1348
- BS1881, Part 207
- ASTM C 1583
- ASTM D4541
- ACI 503-30
- DIN 1048, Part 2

The LDV Pull-Off Tester provides a quick and easy way to determine the adhesion force between two different surfaces/materials. The Pull-Off tester is generally used to check the adhesion of different kind of materials (i.e. plastic, synthetic, fabric and others), fixed to concrete surfaces.
The Pull-Off test can be run on site without the need for installing or preparing any equipment during the casting process or while the part is being made.
The test consists in gluing a metal plate to the part being tested: the plate is then pulled off the part, using a top support complete with extraction system coupled to a load cell.
The pull off force is shown on the instrument's digital display. The peak value is logged.

SPECIFICATIONS

Thanks to its versatile attachment system, the LDV Pull-Off tester can be used for testing the adhesion of mechanical components (anchors) and components which are larger than conventional plates, using support extenders.

The extended point of support makes it possible to test elements which are larger than normal adhesion plates.



SHEAR TEST (LDV-T)

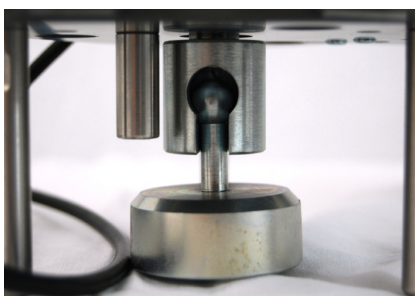
Shear tests apply a traction force to a strip of composite material along its length, thus distributing tangential stresses across the interface between the reinforcement and the substrate as specified by ASTM D 905.
As indicated in the CNR document, the test is particularly valuable in determining the quality of adhesion.
The application can be considered acceptable if at least 80% of the tests (both, if only two are run) register a peak force at failure of no less than 24 kN.

The Pull-Off tester for shear testing composite structures includes a position-adjustable lower contrast plate and the anchor plates for the material being tested (LDV-S).
The instrument consists of a lower support which is bolted to the substrate to which the material being tested by the SHT Pull-Off tester is affixed.

FIELDS OF APPLICATION *

- Any application in which the adhesion between two different materials is to be measured;
- Checking restoration work on damaged concrete structures;
- Work using carbon fibre.

The instrument can be used with bitumen, cement, mortar, plaster, plastics and fabrics



*** For the proper use of the concrete test hammer, see www.drcitalia.net - Download Area section WebHelp Area.**

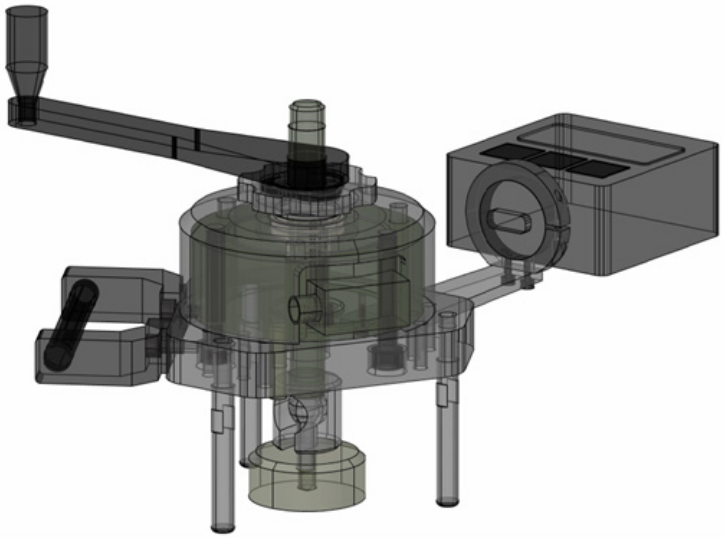
Reading system with DaTa 500 connection

The result is displayed either by the removable external force reader, which facilitates display when the test position is difficult to access, or by connecting the pull-off tester to the DaTa 500 reader with the cable included in the kit.

TECHNICAL SPECIFICATIONS

PERFORMANCE

LOAD CELL	TC4 25KN with DFI - A/D16 bit reader
ACCURACY	± 0,020 %
LINEARITY	± 0,015 %
WORKING TEMPERATURE	0 - 50°C
MAX FORCE	2,5 tons
FILTERS	digital, programmable, peak and zero force function
DISPLAY	digital, 5 divisions
BATTERY LIFE	1 year without recharging
CALIBRATION	digital



PHYSICAL

DIMENSIONS	150x150x145 mm
WEIGHT	1,2 Kg

ORDERING INFORMATION

Pull Off LDV	Pull Off LDV-T	Support Shear test LDV-S
Code 01.DRC.0033	**Code 01.DRC.0179**	**Code 01.DRC.0180**
Contrast support	Contrast support	Lower contrast plate
Loading cell (25 o 50 kN) and removable display system	Loading cell (25 o 50 kN) and removable display system	Shear test plate L 200 x 50
Adjustable ball traction handles	Adjustable ball traction handles	
Support extensions	Support extensions	
Pull-off plate D50	Pull-off plate D50	
Calibration report	Calibration report	
User manual	User manual	
Rigid carry case	Rigid carry case	
	Lower contrast plate	
	Shear test plate L 200 x 50	

PACKAGE

DIMENSIONS	260 x 230 x 145 mm	WEIGHT	4,0 Kg

WARRANTY & MAINTENANCE

24 months

DRC guarantees maintenance service at its center or at authorized centers.

CE

DRC Diagnostic Research Company Non Destructive Testing

For ordering information please contact:

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