



## **M053 TESTING MACHINE FOR PULL TEST AND BOND STRENGTH CAPACITY 15 kN (3372 lbf)**

*EN 1015-12, EN 1348, EN 1364, EN 1542, EN 12004,  
EN 12618-2, EN 13279, ASTM D 7234, ASTM D 4541,  
ISO 4624, ETAG 004-EOAT GUIDE 2011*

**Using for fully Automatic tensile tests with constant load rate. It is used for the measurement of adhesion of adhesives, mortar and epoxy pastes, especially for the building sector, but also to other sectors of the coating spray.**

The apparatus shall consist of an alloy body for maximum maneuverability. The miniature load cell guarantees a high reliability of measurement results. The complete management of the tests is performed through the indicator **UDI24PRO** Digital 24-bit microprocessor with color LCD TOUCHSCREEN with 240 x 128 pixels.

- Selectable Menu in Italian, English, Spanish and Portuguese.
- Set specimen type with automatic calculation sample area.
- Setting the desired load rate (N/s; Mpa/s; mm/min) and relative tolerance +/--%.
- Possibility to create various test methods.
- Automatic calculation of maximum force (kN) and Strength (Mpa).
- Automatic return at the end of each test 3-5 seconds.
- Automatic saving of results in internal memory, at the end of each test.

### **EASY SOFTWARE-TEST**

Command Software, data acquisition and remote management. The program allows you to manage the test by PC showing real-time test load characteristic curve/time. It also allows saving data and curve in format .XML. Export XY value test curve in format .XML

### **LBG TERMINAL**

This application is used to download the results stored in the indicator, as it does not use the remote control with your PC and EASYTEST. The data downloaded to your PC are stored in.TXT

Full supply of:

- Load cell 15.000 kN (3372 lbf)
- N° 1 fixing device (your choice when ordering)
- N° 1 fixing pin (your choice when ordering)
- N° 1 Flat template holder
- N° 1 USB cable
- N° 2 brass rods
- Software LBG EASY TEST
- Software LBG TERMINAL
- Instruction manual
- Calibration Certificate

**The accessories to effect all the tests have to be ordered separately.**

**TECHNICAL CHARACTERISTICS :**

15 kN 0.001 kN	Load Capacity Resolution	3372 lbf 0.22 lbf
1	Class ISO 7500-1 (dal 2% al 100% f.s.)	1
25 mm/min 0.2 mm/min	Maximun Speed Minimun Speed	0.98 in./mm 0.01 in./mm
From 50 to 1000 N/s	Adjustable load gradient	From 11.24 to 224.81 lbf/s
110 x 580 mm	Body dimensions Diameter x Height	4.3 x 22.8 in.
5.6 kg	Body weight	12 lb
330 x 350 x 230 mm	Control unit dimensions width x depth x height	13.0 x 13.8 x 9.1 in.
11 kg	Control unit weight	24 lb
240V 1ph 50Hz + T	Power Supply	
100 VA	Max Power Absorbed	

**ACCESSORIES**

	M053-A101 ADHESION METAL PLATE 50x50 mm Steel made 20 mm thickness. Pack of 5 pieces.
	M053-A102 ADHESION METAL PLATE D. 20 mm Steel made 25 mm thickness. Pack of 5 pieces.
	M053-A103 ADHESION METAL PLATE D. 50 mm Steel made 25 mm thickness. Pack of 5 pieces.
	M053-A104 EQUIPMENT FOR RAPID MULTIPLE TESTS Specifically designed and calibrated to lighten the weight of the body of tensile up to 1.5 kg. It consists of an arm adjustable in height and a system for fast and agile handling.
	M053-A105 TEST EQUIPMENT CALIBRATION KIT GRIP Specifically designed for calibration of equipment for testing of adhesion (also other brands). For more information see datasheet M053-A105

	<p>M053-A106 SUPPORT PLATE FOR ADHESION TESTS Specifically designed to fit tests on test-pieces 100 x 100 mm side plans or on round samples up to Ø 100.</p>
	<p>M053-A107 BOX TRANSFORMER 115/230V AC per M053 Suitable for powering the equipment M053 to 115V AC 50/60Hz Input cable without plug and cable outlet VDE. Main Switch and fuses inside the box.</p>

**SPARE PARTS**

	<p>M053-R101 FLAT TEMPLATE HOLDER Built in steel.</p>
	<p>M053-R102 BRASS RODS Pack of 2 pieces.</p>
	<p>M053-R103 QUICK FIXING DEVICE - TYPE 1 Built in stainless steel. To engage in the fixing pin type 1.</p>
	<p>M053-R104 FIXING PIN - TYPE 1 Thread with ISO M12. Pack of 5 pieces.</p>
	<p>M053-R105 FIXING DEVICE - TYPE 2 Built in stainless steel. To engage in the fixing pin type 2.</p>
	<p>M053-R106 FIXING PIN - TYPE 2 Thread with ISO M12x40. Pack of 5 pieces.</p>
	<p>M053-R107 FIXING DEVICE - TYPE 3 Built in stainless steel. To engage in the fixing pin type 3.</p>
	<p>M053-R108 FIXING PIN - TYPE 3 Thread with ISO M8x40. Pack of 5 pieces.</p>



M053-R109 COUPLING  
For M053-R105 and M053-R107



M053-R110 CONNECTING CABLE BODY MACHINE-UNIT CONTROL  
Lenght 2 metres.