



Range Wiretest

Control instruments for cables and wire crimps



Wiretest, cable and terminal test benches

Manual and motorized measurement of the breaking force

To control the proper integration of your cables and terminals into your finished products (electronic systems, electrical cabinets, etc.) and ensure the quality process, it is necessary to carry out periodic inspections of your terminals and crimping pliers.

These inspections can be carried out during the design or acceptance of a delivery by means of manual or motorized test benches to measure the breakage or slippage of the cable and terminal. Force gauges and test machines make it easy to measure the force applied to the cable.

To carry out these types of tests, Andilog has developed the WIRETEST range, which is available in different test benches.

Wiretest range

Specifications	Wiretest FT	Wiretest T1	Wiretest 2 & Wiretest 2 CC	Wiretest 3 et Wiretest 3 CC
Cables up to	2,5 mm ²	16 mm ²	100 mm ²	300 mm ²
Capacity up to	500 N	2000 N	5000 N	20 kN
Stand	TEX555	TEX555	Stentor II	T-Drive
Force measurement	Centor First II	Centor Easy II	Centor Touch	Centor Touch
Bottom accessory	Wedge clamp 500N	Wedge clamp 5KN	Wedge clamp 5KN	Wedge clamp 20 KN
Top accessory	Carrousel	Carrousel or wedge clamp	Carrousel or wedge clamp	Carrousel or wedge clamp



Simple manual control of cables and cable lugs: Wiretest FT and T1

Wiretest FT and T1 are **precise, very simple and economical systems for the control of small-capacity cables and terminals up to 2 kN**. They are composed of a high-precision force gauge, a manual frame and traction accessories specific to the terminal measurement.

The measuring head (force gauge with internal load cell with strain gauges) gives the applied force in real time and stores the maximum force, i. e. the breaking or sliding force.

Wiretest FT - Force measurement with a lever up to 500N



Ideal for small cable cross-sections, the Wiretest FT set measures the crimping force of cable crimps up to 500 N.

With Wiretest FT you can check: **crimped or soldered terminals, tabs, connector contacts, connectors (antenna, RJ45), terminals etc**

Equipped with a Centor First II dynamometer, the Wiretest FT lets you check the maximum force applied quickly and easily. Its large color display makes it easy to read. A bar graph indicates whether you're approaching the maximum capacity.

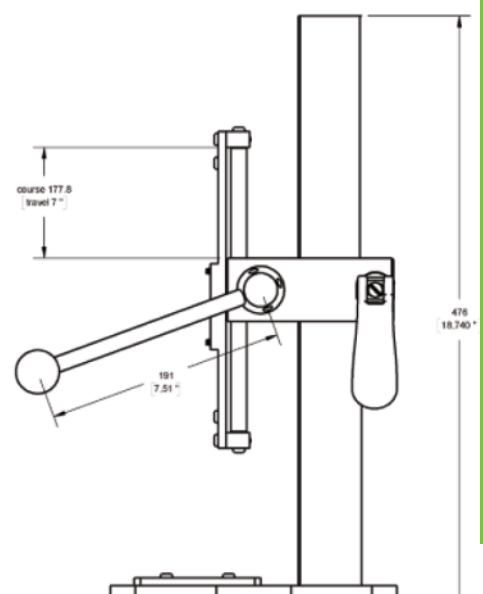
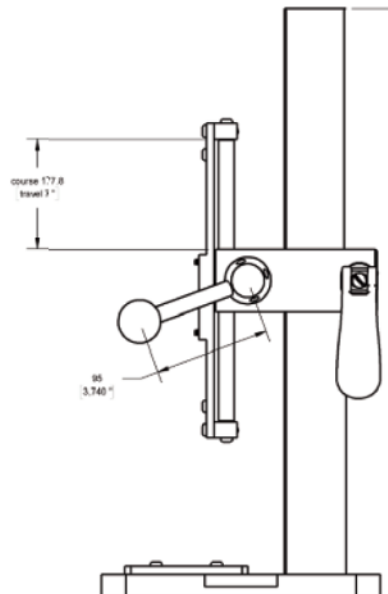
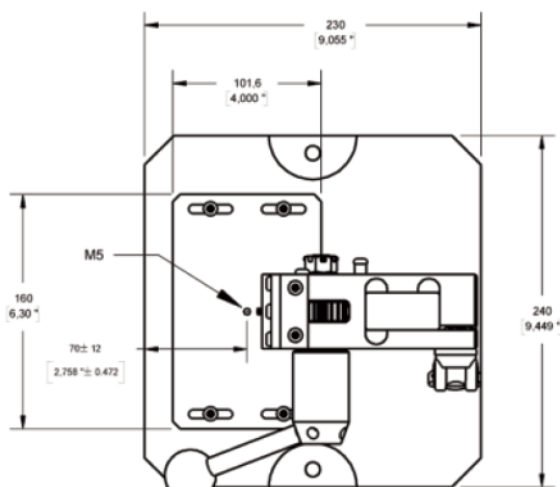
Wiretest T1 - Measurement with a lever up to 2 kN

Ideal for small and medium cable cross-sections, the Wiretest T1 measuring system measures the pullout forces of crimped terminals up to 2000 N.

Suitable for use in acceptance, production and quality control, it allows **fast and accurate measurements on terminals and contacts** to control a production batch, validate a production start, a crimping tool, a new supplier, control a batch received from a supplier or check the performance during maintenance.

The force gauge Centor Easy II offer indispensable feature for quality controls, such as: **ease of reading with its large backlit color display, internal memory of the last 500 values, USB output and ability to set thresholds with visual and sound alarms.**

The M5 thread at the back of the device enables the mounting on the Springtests.



Automated cable control: Wiretest 2

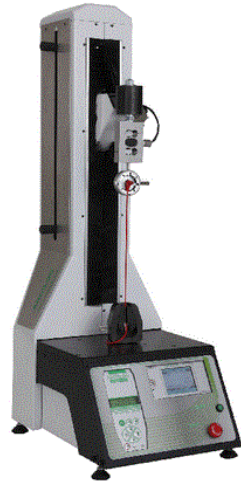
Automated measurement at constant speed

With Wiretest 2, the measurement of the pulling force of the connectors is simple, fast and representative of the quality of the crimping.

Many aeronautical, automotive or railway standards define the test conditions: minimum permissible forces depending on the diameter of the cable, traction speeds, etc.

WIRETEST 2 meets all these conditions. Thanks to its control console, the operator configures the traction speeds, the return speed and the automatic return to the starting position. The display gives the current values and the pull-out force of the terminals, it is even possible to display the test curve.

These results can either be stored in memory (up to 2000 results) or transferred to a PC (optional software) or on a USB stick. **Designed for life in the production workshop, the Wiretest 2 becomes the guarantee of flawless wiring.**



Clear display, fast results

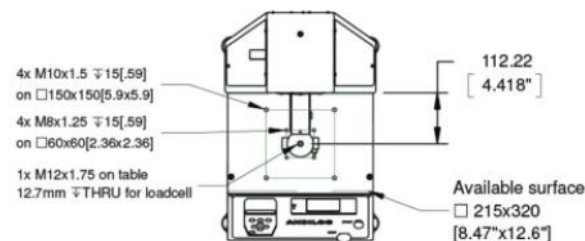
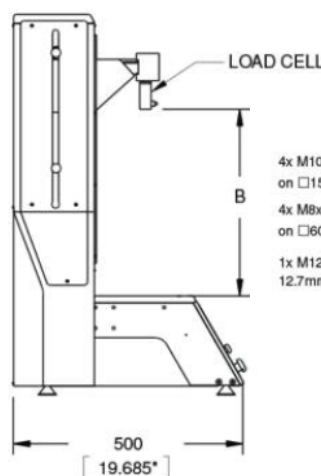
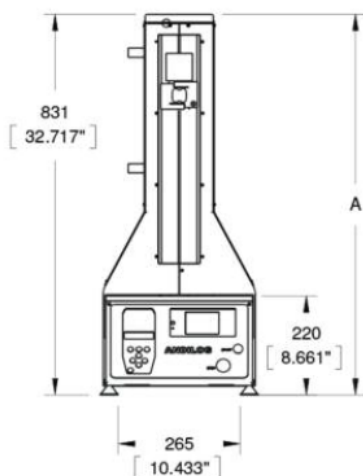
The Wiretest 2 is equipped with a colour touch screen that allows you to **plot the measurement curve or display up to 3 values simultaneously** (e. g. force, displacement and breakage or maximum force).



Its graphical interface is easy to use and allows you to customize the measurement screen according to the test needs and the results to be displayed.

The configuration of the measurements is done by clear and complete screens. For example, the calculation of the breakage is done by simply entering the percentage of force drop. **Wiretest 2 will then automatically calculate the maximum force and breakage at the defined percentage.**

HEIGHT (A):	835/935/935mm	32.9/36.8/36.8 in
MAXIMUM HEIGHT (B)	400/445/445mm	15.7/17.5/17.5in



Automated verification of high capacity cables

Measurement on large diameter cables

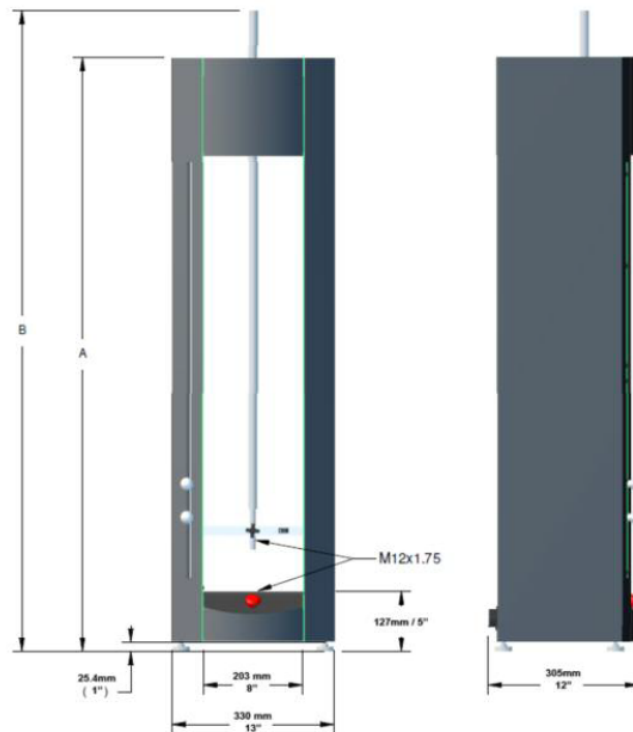
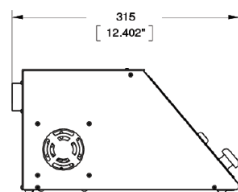
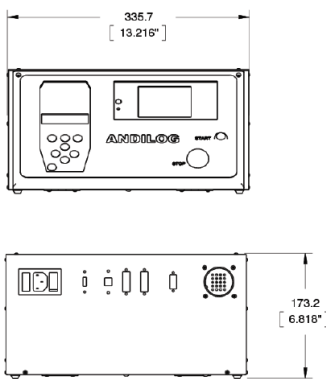


The Wiretest 3 test bench is designed to check the crimping quality of large diameter terminals.

Indeed, the success of a good crimping is linked to the quality of the crimping tools and the correct setting of the crimping machines. However, these parameters change during production and it is essential to check them regularly.

The Wiretest 3 allows tests to be performed on 10kN or 20kN cables. It is supplied with two self-tightening jaws to hold cables and wires during tensile tests.

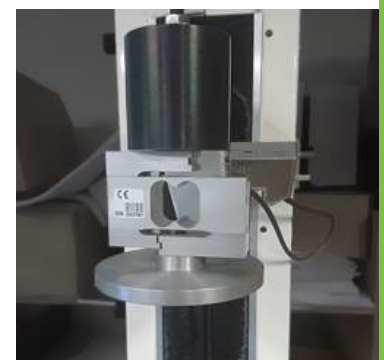
Designed to increase clamping as the tensile force increases, they prevent the sample from slipping into the jaw. The dimensions and opening of the jaws differ depending on the ability of the cable to be tested. These are made of hardened diamond type steel for better sample holding and better penetration into the metal.



Interchangeable SPIP load cells

The Wiretest 2 and 3 are supplied with a high-precision load cell designed to give repeatable results with very low drift over time. The force measurement accuracy is 0.1% of the sensor capacity with an acquisition rate at 1,000 Hz.

The sensors are equipped with SPIP technology, which allows all calibration parameters to be stored in the sensor. **This allows you to exchange several sensors that will be automatically recognized by the test machine.**



Perform a manual cable and crimp measurement

Carousel for AWG 14 to AWG 3 terminals

Wiretest 1 and T1 are equipped with specific accessories for cable traction: a self-tightening jaw at the base of the frame to hold the cable or wire. This type of jaw increases the tightening of the cable as the tensile force increases. It thus **prevents the wire from slipping during traction**.



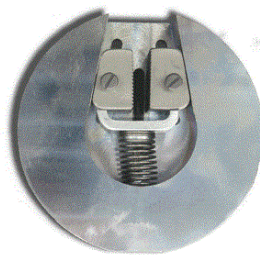
The top mounting system depends on the type of terminals you want to test. By default, up to 1000 N, Wiretest are equipped with a carousel that allows multiple notch widths to be adjusted to different cable cross-sections (**8 notches from 1.5 to 6.3 mm wide/ 0.05 to 0.25 in**). It is very well suited for connectors and crimped terminals that are wider than the cable up to AWG 3.

In the case of straight **contacts, tabs, specific terminals or above 1,000N**, a second self-tightening jaw is mounted instead of the carousel, which allows all types of terminations to be maintained.

Examples of jaws and accessories



Winding jaw 5 kN



Self-tightening jaw 20 kN



Self-tightening jaw 5 kN

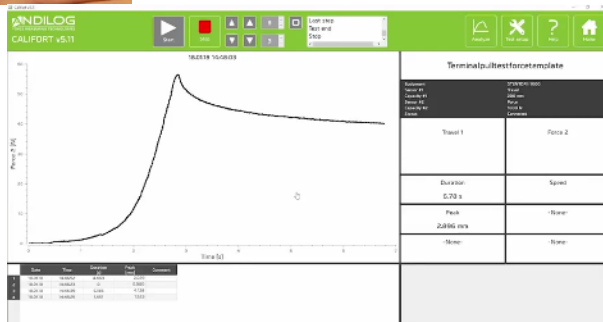


Carrousel 20 kN

How to perform your cable measurements



- Cut the cable and take its end
- Mount the cable with the self-tightening jaw at the bottom of the frame
- Insert the terminal into the carousel
- Operate the lever or start moving the machine upwards
- **You can perform a load test up to a predefined force value or measure up to breakage**



Example of a force measurement on a terminal up to a defined force



Example of a force measurement on the terminal until breakage

Specific features of the WIRETEST range

Measuring range and accuracy

Specifications	Wiretest FT	Wiretest T1	Wiretest 2	Wiretest 3
Capacity	500 N	1000 - 2000 N	2000 - 5000 N	10 kN - 20 kN
Accuracy of the load cell	0,25 % FS	0,1 % FS	0,1 % FS	0,1 % FS
Overload protection	150 % FS	150 % FS	150 % FS	150 % FS
Force unit	N, Lb, Kg, g, Oz			
Internal memory		500 results	2000 results	
Number of lines		3 lines	Curve + 2 lines or 3 lines	
Acquisition speed	1000 Hz	2000 Hz	5000 Hz	5000 Hz
Display of the curve	No	No	Yes	Yes
Travel resolution			0,002 mm	0,002 mm
Vertical movement per crank revolution	80 mm	80 mm	Adjustable displacement	Adjustable displacement
Adjustable speed in mm/min	No	No	Yes	Yes
Mechanical stops	Yes	Yes	Yes	Yes
Software stop	No	No	Yes	Yes
Cycles	Manuals	Manuals	Automated	Automated
Computer connection	-	USB	RS232, USB	RS232, USB
Slide travel	175 mm	175 mm	350 mm	762 mm
Backup to USB key	No	No	Yes	Yes
Software	No	Optional	Califort included in CC Version	

CC Version : Califort measurement software included

The software Califort enables you to perform complex and precise force and torque measurements easily. Califort offers you several benefits:

- **Intuitive** and preset for the users
- **Performing and handy** to customize your measurements
- **Customizable** in the editing of your reports and the result analysis



The new designed interface of Califort has been fully optimized to offer a better experience with a clear and well organized interface. It facilitates reading and usability of the software for faster and efficient daily use. Califort remains available to use with Microsoft Windows tablets and touch screens thanks to its integrated virtual keyboard and suitable interface.

Complete systems delivered with:

Wiretest FT and T1	Wiretest 2	Wiretest 3
Manual test stand TEX555	Stentor II testing machine	T-DRIVE traction bench
Force gauge Centor First II or Centor Easy II with high-precision internal load cell (external for T1 in 2kN)	Available load cells: 1 / 2 / 5 kN	Available load cells: 1 / 2 / 5 / 10 or 20 kN
Up to 1000N: A self-tightening jaw and a carousel for terminals Opening in mm: 1,5 / 2,0 / 2,3 / 3,0 / 3,8 / 4,5 / 5,1 / 5,3 / 5,8 / 6,3 Opening in in: 0,06 / 0,08 / 0,09 / 0,12 / 0,15 / 0,17 / 0,20 / 0,21 / 0,23 / 0,25		Two self-tightening jaws 25 kN, opening 0 to 6mm / 0 to 0,24 in
Wiretest T1 - 2kN : 2 self-tightening jaws		
Force certificate of calibration with measurement readings		
User manual		
Power charger	Power supply cable	
Option: RSIC-Lab or Caligraph software, second self-tightening jaw	Option: Califort control software, installation, training, other accessories and jaws, custom fixation	

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