

VERTICAL TORQUE TESTER DRIVETORK



Torque tester DRIVETORK

Designed for measuring screwing torque

Vertical torque bench for measuring up to 12 Nm (100 in-lb). It can measure clockwise and counterclockwise

Semi-automatic control by console or automatic by computer

Speed range from 1 to 10 revolutions per minute. (other speeds available upon demand)

Range of accessories available for cap testing

Its compact format and design is suitable for food or pharmaceutical production



Designed for measuring screwing torque

To measure torque accurately, it is necessary to regulate the test speed for repetitive results. The Drivetork, vertical torque bench makes it possible to perform torque measurements by avoiding the influence of an operator, thanks to regulated rotation at a constant speed.

The Drivetork torque tester allows you to test a variety of samples but it is particularly suited for screwing tests: caps, flasks, bottles, screws and nuts. Its measuring head has a transitional axis allowing you to move up and down freely during the torque measurements.

The steering and the torque and angle measurement are performed by the DriveTouch control unit, which is equipped with the tried and tested electronics of Andilog Technologies. Thanks to its capacity to read two sensors simultaneously with a sampling rate of 1.000 Hertz, the test console DriveTouch measures synchronously the torque and angle. Its computational power enables the simultaneous recording of the values of two different sensors, the monitoring of thresholds and the execution of one calculation on each channel.

The Drivetork is the easiest and most complete system to perform the most diverse torque tests in the workshop or in the laboratory.

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The sensors

The Drivetork is equipped with two high-precision sensors: a torque sensor and an angle sensor. These two sensors are perfectly aligned to guarantee the quality of the measurements in the sample axis.

The torque sensor: it is the sensitive element of the Drivetork. This sensor is available in different capacities depending on the measuring range on which it is used. The Drivetork can perform torque measurements from a few mNm (oz in) up to 12Nm (100 in-lb). These sensors are interchangeable and automatically recognized by the Drivetork. Therefore, it is possible to have several torque sensors to cover all measuring ranges. The accuracy of torque sensors is 0.5% of full scale. It is recommended to use them between 10% and 90% of their capacity.

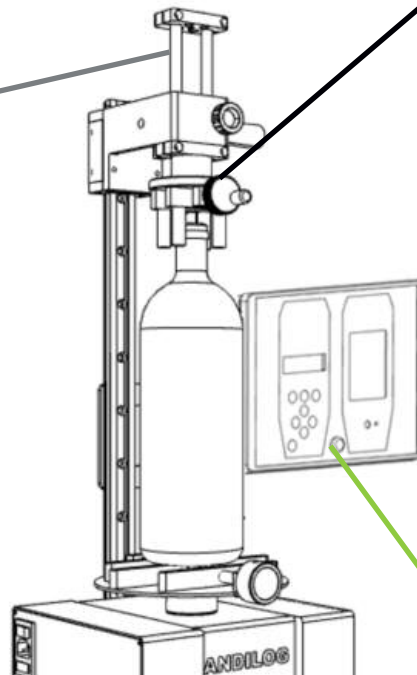
The angle sensor: it measures incrementally with a resolution of 0.1 °. Adjusted directly on the axis of rotation, it aligns perfectly with the sample to ensure an accurate measurement of the angle.



Movable head lock

The Drivetork is equipped with a translation axis which enables the torque sensor to freely go up and down progressively during on the thread.

This axis can be locked for samples which don't need a translation.



The steering and measurement console

The motor can be driven manually to insure a precise positioning of the torque tester Drivetork before a test or for adjustments during the first test series.

The console indicates in real time the rotation speed and the position. It has adjustable quick and slow speed commands.

The measuring interface is composed of a color touch screen for a use of the machine without software or for a more manual approach.

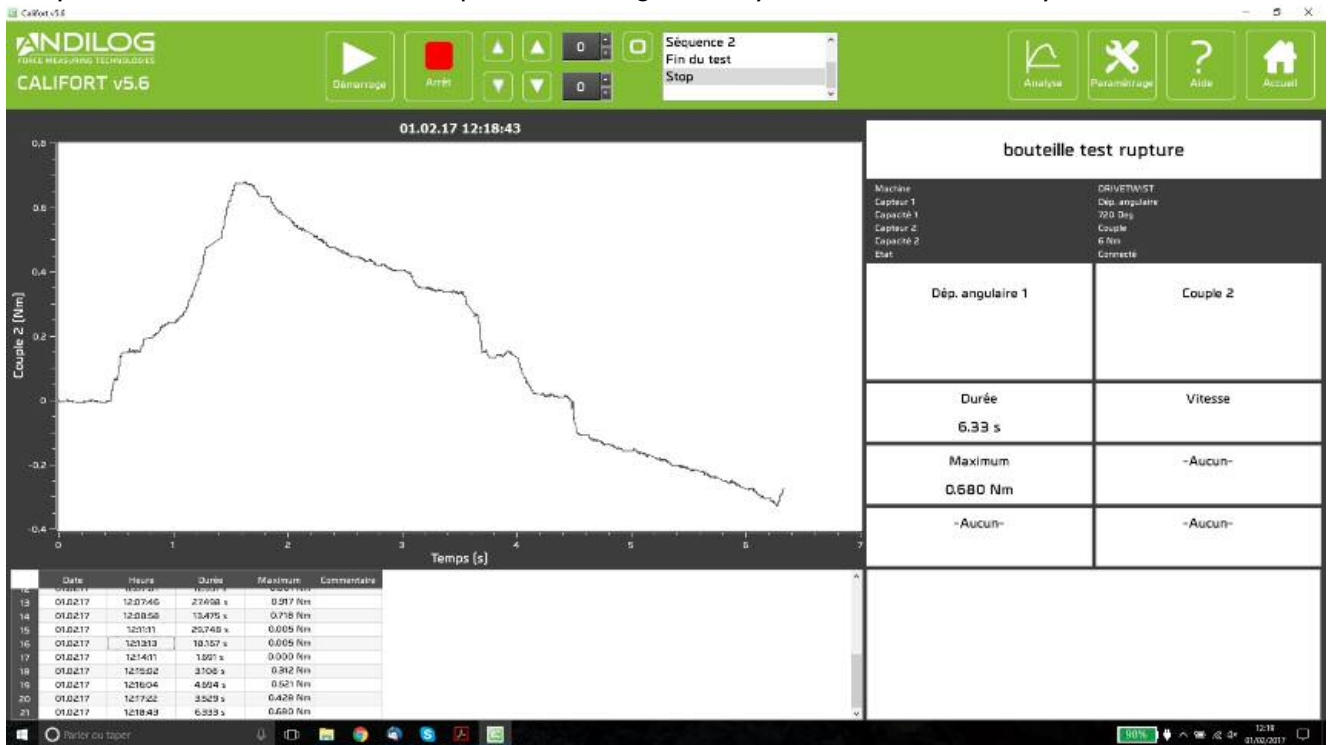
This interface displays in real time the measured torque and



Califort – the Material testing software

Fast adoption: load a configuration and start measuring!

The steering and acquisition software Califort, when associated with the Drivetork, makes it a complete and ready to use solution. The time of adoption and configuration by the user is considerably reduced.



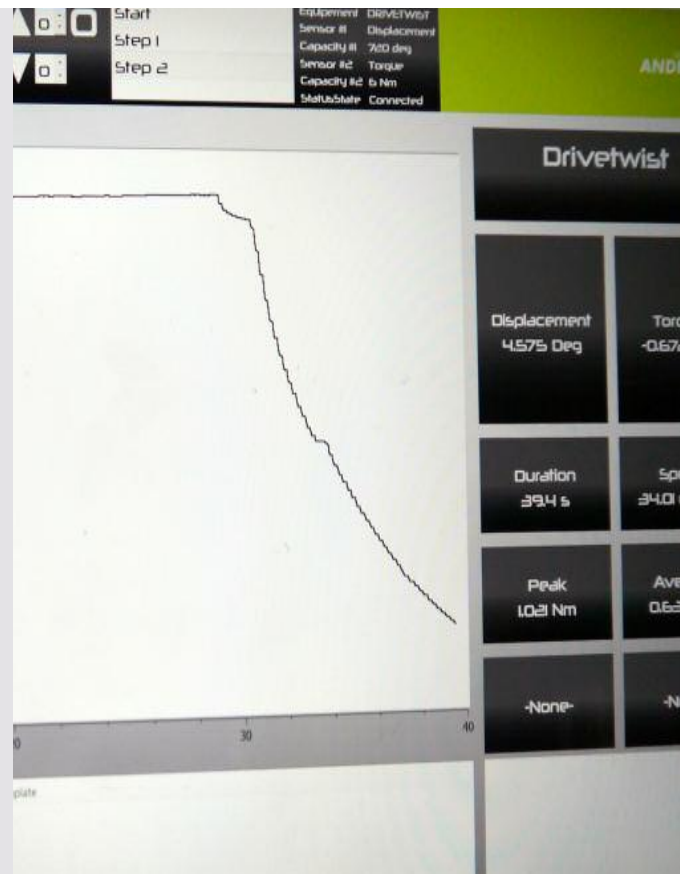
Simple use

Simple, safe and intuitive

Simply press the green arrow and your tests and measurements start. There is no easier way to begin. User has access to the most important data of his measurement and a limited access to the test configurations.

Califort's menus have been redesigned for an ergonomic and easier user experience, which minimized the training time on how to use the equipment.

Califort software offers and ensures integrity and traceability of your results, thanks to the password protection access, or automatic backup for example.



Califort – the Material testing software

We take you through the easy process of setting your tests

The Califort software uses simple tools to define your test protocols. Setting your test is done sequentially and has an intuitive flow. The test configuration is guided by a step by step process, and no programming knowledge is required.

By following the simple sequences of the various stage of defining your test, you quickly build advanced multi-stage test routines. Choose among the following available parameter to customize your test:

- Type of data to graph
- Calculations to display: maximum, average, break, elongation, etc.
- The Multi-stages of your test (start, return condition, preload, speed, direction, pause time, ...)
- Number of cycles and conditions
- The conditions for success measures

Once the configuration is completed, the user just has to load the predefined sequence in order to do automatically and safely the measurements on its samples.

Advanced features

	Notes	Durée	Max	Min	Calcul 1	Marqueur
24.09.14_18.32.28	Courbe hors gabarit	9.083 s	69.400 N	-0.200 N	Maximum	69.200 N
24.09.14_18.32.10		9.043 s	97.400 N	-0.400 N	Maximum	93.400 N

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Edit your test reports

At the end of the test, Califort allows you to analyze your results and create test reports, including curves, and list of calculations. Reports can be edited through Microsoft Word or PDF format. Use the wizard to create your custom reports by including your own logo and company details.

Raw data are also available, for further investigation or simply to export them on a table spreadsheet.

Technical specifications

MECHANICAL

Maximum capacity
Height of the samples
Maximum diameter of the samples
Minimum speed
Maximum speed
Displacement of the movable head
Dimension of the test stand L x D x H
Weight
Power

DRIVETORK

12 Nm 100 in-lb
0 - 350 mm 0 - 13.8 in
150 mm 5.9 in
1 rpm/min* 6°/s
10 rpm/min* 60°/s
75 mm 3 in
281 x 275 x 770mm 10.8 x 11 x 30.3 in
15 kg 33 lb
220 V 110 V

General working conditions::

- Working Temperature: 10°C to +35°C
- Humidity: normal condition for laboratory or industrial
- The material testing equipment should be used on a flat, stable and not subject to vibration environment
- All the parts of the test stand are made to be washed with a damp cloth. The guidances are not lubricated.

* Other speed ranges can be developed on demand

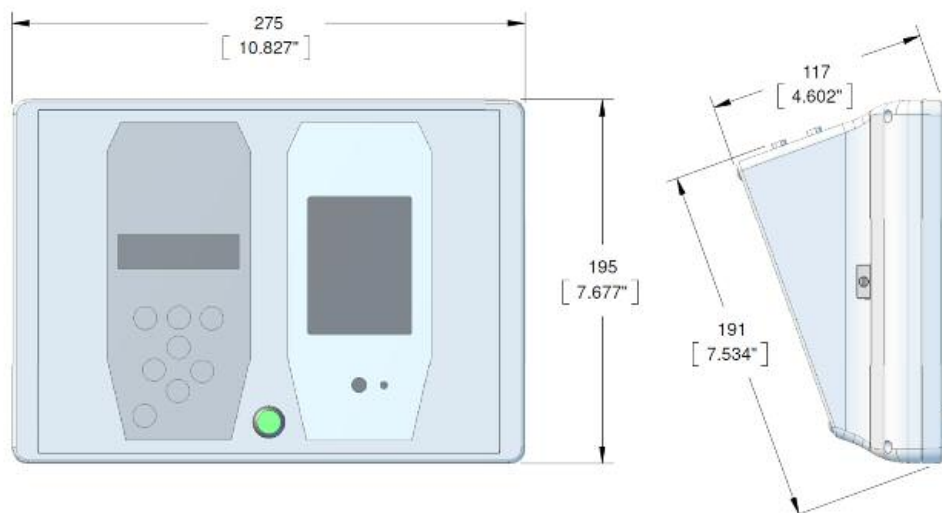
FEATURES

Torque sensors
Torque precision
Torque resolution
Overload protection
Displacement precision
Displacement resolution
Displacement units
Speed of acquisition
Display
Manual command
PC Communication
Distance Console / Stand
Transfer speed
Minimum PC configuration

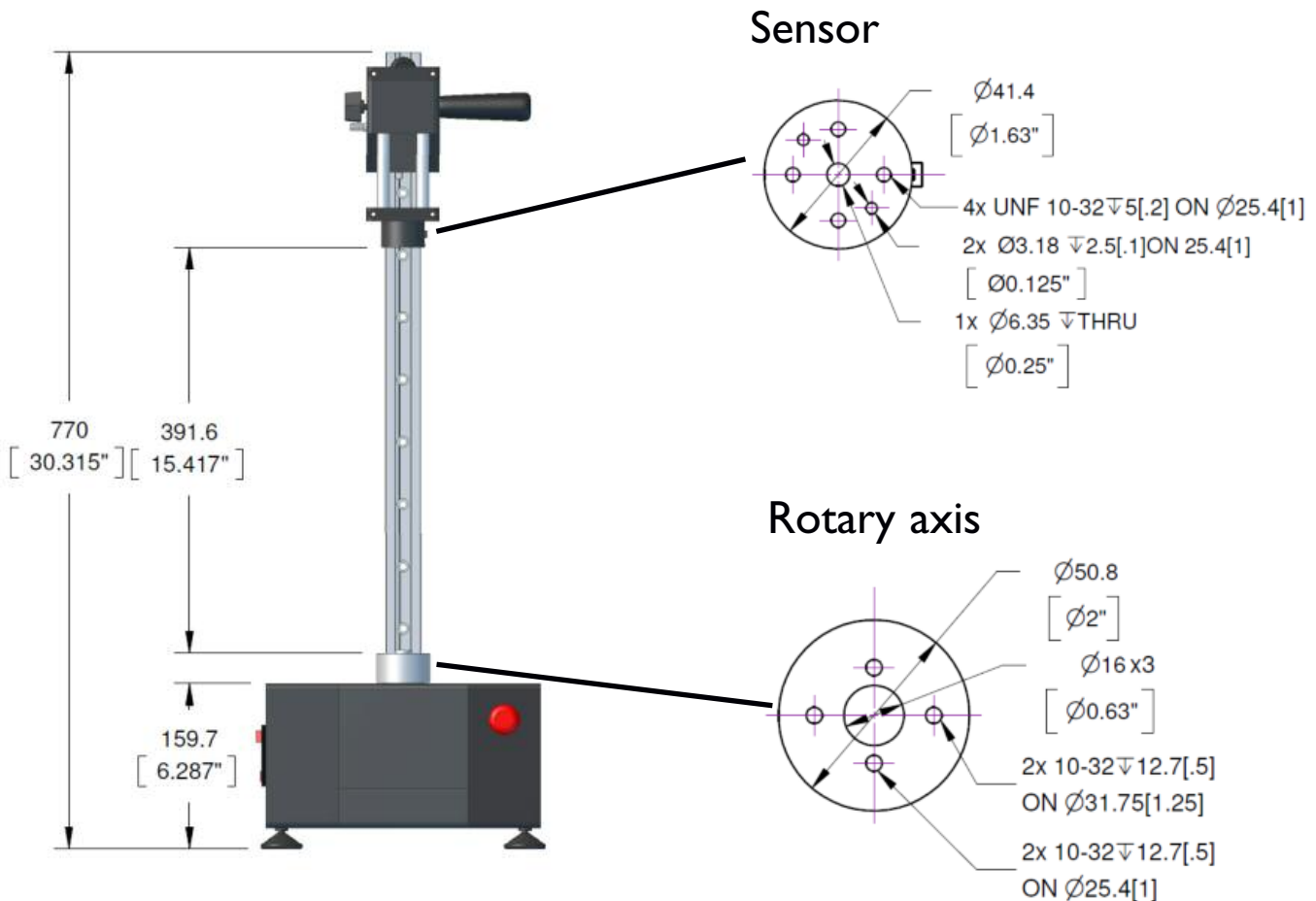
CARACTERISTICS

0.35 Nm, 1 Nm, 3 Nm, 6 Nm, 12 Nm 50 in-oz, 160 in-oz, 400 in-oz, 1,000 in-oz, 100 in-lb
0,5% F.S.
1 / 10 000
Up to 200% F.S.
0.5% F.S.
0.1 °
Degree, round
Rpm, °/s
1000Hz
Live display of torque and displacement
Via integrated command or software Califort
To USB ports necessary (cables included)
75 cm maximum
Windows 7, 8 or 10, Microsoft Word, Excel or Open Document for the edition of reports, screen 1024 x 768

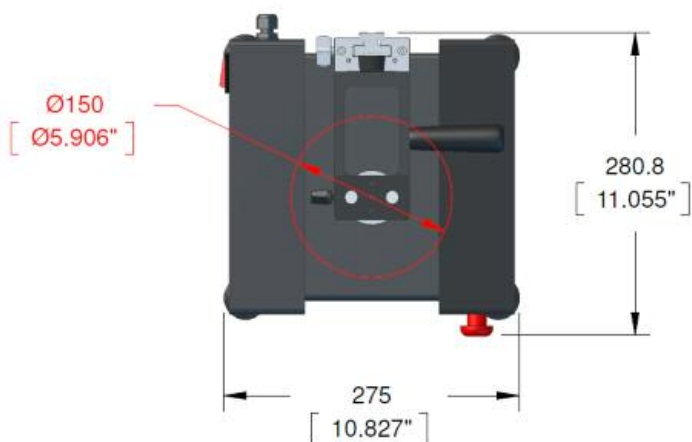
Dimensions of the controller



Dimensions of the test stand

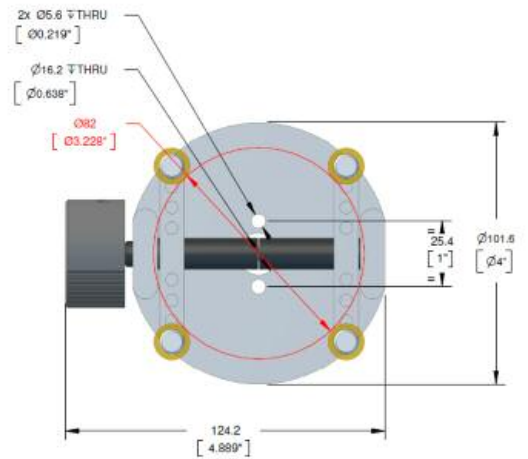
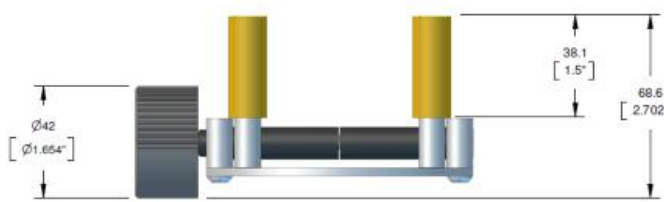


The rotary axis is equipped of a joint to avoid the liquid projections inside of the housing. The cleaning of the housing can be done with a damp cloth.

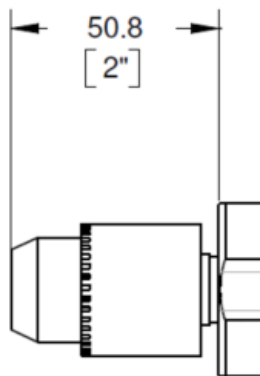


Prehension accessories for your samples can be mounted on the Drivetork. The choice of the accessories depends on the type of products to test. We can also design and manufacture on demand special jaws according to your needs. Contact us for further information.

Microtork platens



Chuck

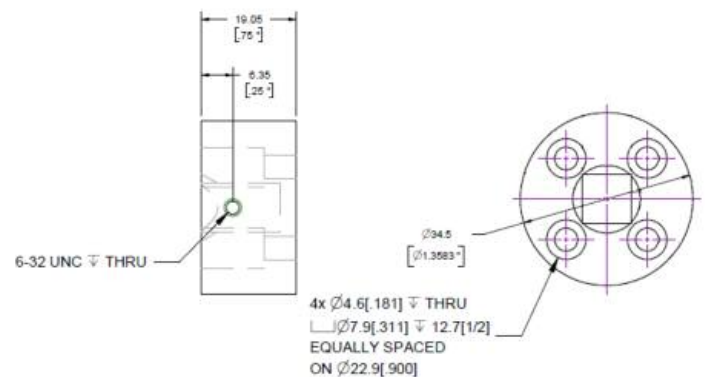


Sample diameter from 1,5 to 10 mm

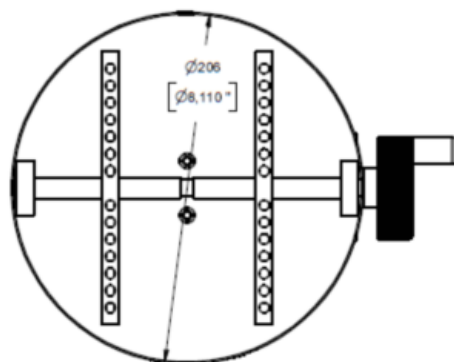
Clamp included

Square

3/8 square enabling the easy mouting of clamping tooling such as sleeves, screwing ends etc.



Anditork platens



Big stainless steel platen with 4 rubber fingers

Suitable for closures on bottles and canister

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**Vertical torque tester
DRIVETORK**



HEADQUATER

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