



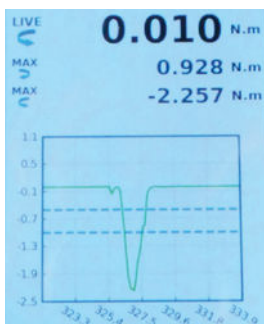
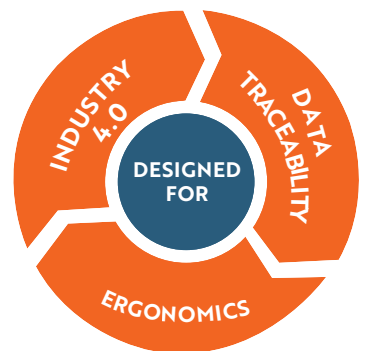
www.acrn.fr

ACRN

Quality control machines
Industry & Packaging

SKILLTORK

SMART AND COMMUNICATING TORQUE METER



**TORQUE MEASUREMENT,
SCREWING/UNSCREWING TESTS,
PLUG INSPECTION,
EXPORT DATA AND REPORTS.**



SMART AND COMMUNICATING TORQUE METER SKILLTORK



FUNCTION

Device for measuring the torque of screwing and unscrewing caps on screwed packaging.

The ACRN torque meter is a new generation device with an adaptable tightening system and an intuitive touch screen.

It allows you to evaluate the force required to open or close a cap, to detect tightening deviations, and to automatically record the results for each product tested.

This control is essential in many sectors: cosmetics (ease of opening for the user), pharmaceuticals (uniformity and security of closures), food industry (regulatory compliance), chemistry (tightness of containers).

Clamping
system
adaptable

Pass/Fail
detection,
statistics

Unlimited programs
and products
(test models and
standards)



TYPICAL PACKAGING:

- Compatible with all types of caps



Intuitive and
ergonomic
menu for quick
handling





THE + REPEATABILITY
Maneuvering tool for
opening caps

BENEFITS:

- Compatible with many types of caps: bottles, jars, tubes, cans, bottles
- Various tightening options for optimal support
- Simple touch interface for quick setup (less than 5 min)
- Unlimited programming of tested products (with customizable thresholds)
- Built-in statistics (average, min/max, double peak)
- Data integrity: advanced analysis/export of results (USB, WEB Server*)
- Automatic torque deviation detection (Pass/Fail)
- PDF/CSV export + advanced batch management*
- Full traceability according to FDA CFR 21 Part 11 requirements (AUDIT TRAIL / DATA INTEGRITY)*
- Battery operation

***Only with the skilltork+ model**



FEATURES :

- 7-inch color touchscreen
- Available measuring ranges: 1 / 3 / 5 / 10 / 15 / 25 N.m
- Resolution: 0.001 N.m
- Accuracy: $\pm 0.3\%$ full scale
- Sampling frequency: 1800 Hz
- Max sample: 150 mm diameter
- Units displayed: Nm, Ncm, kgFcm, lbFin, ozFin
- Connections: USB, WiFi, Ethernet, virtual RS232

VERY EXTENSIVE TESTING POSSIBILITIES



SIMPLE MEASUREMENT TEST

Measurement of the closing or opening torque of caps on bottles, jars, tubes, etc.



TEST DOUBLE PIC*

Measurement and comparison of the two torque peaks (e.g. clicks successive or breaking torque followed by slippage).



THRESHOLD TEST (PASS/FAIL)

Automated compliance according to customizable tolerances.

Conformité calculée : **Conforme**
Valeur mesurée : **-0,379**
Unité : **N.m**



TEST BY PRODUCT RECIPE*

Creation of product profiles with saved thresholds (unlimited), launch by quick selection.



ADVANCED BATCH MANAGEMENT*

Grouping of results by batch name, exportable for traceability or audit.

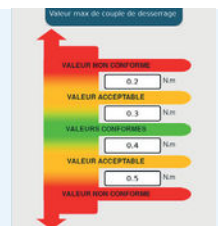
Statistiques

Nombre d'essais : 7
Moyenne : -0,488 N.m
Maximum : -0,246 N.m
Minimum : -0,916 N.m
Ecart type échantillon : 0,216 N.m
Taux de conformité calculée : 71,43 %



BETWEEN TWO THRESHOLDS TEST*

The Skilltork instantly displays compliance with its color bargraph: green for ideal torque, orange for acceptable, and red for



***Only with the skilltork+ model**

OPTION :

Reinforced transport case
Wall base
Screen protection cover / Transparent anti-shock film
Printer






CONNECTIVITY & SECURITY

Ethernet RJ45 / virtual RS232	Direct connection to a local network or PLC
Integrated WIFI	Secure wireless communication
USB (x2) + USB key holder	Export and import data via USB key
Embedded web server*	Administration interface and results accessible remotely
Barcode scanner (optional)	Quick scan of product batches
Serial printer (optional)	Instant printing of results
Complete traceability*	FDA 21 CFR Part 11 compliance, audit trail, user profiles
Data security	Backup, lock, time-stamped recording
Advanced sensor status detection*	Sensor deformation measurement with event timestamp

***Only with the skilltork+ model**

AND FOR THE FUTURE....

Repeatork - Motorize your tests The motorized version of the skilltork for perfectly reproducible screwdriving, without human variability.

-  **Optimal repeatability**
-  **Automated screwing/unscrewing sequence**
-  **Traceable and secure data**



COMES WITH:

- A power cable
- A calibration certificate according to ISO6789 standard: 2017 / COFRAC connection of standards
- Instructions for use
- Quick 4-pin clamping
- USB connection cable + Ethernet adapter



SAMPLE SUITABILITY:

The skilltork is designed to accommodate a wide variety of samples. It is equipped with several clamping systems ensuring optimal support for the tested products.



Fast and ergonomic 4-point clamping



4-pin clamping 20 mm*



4-pin clamp 80 mm*



Grip-Cubes* tightening



Add-on Grip-Cubes*

*** Model available as an option**

	skilltork	skilltork +
Available measuring ranges	1 / 3 / 5 / 10 / 15 / 25 N.m	1 / 3 / 5 / 10 / 15 / 25 N.m
Resolution	0,001 N.m	0,001 N.m
Precision	±0.3% full scale	±0.3% full scale
Sampling frequency	1800 Hz	1800 Hz
Units	Nm, Ncm, kgFcm, lbFin, ozFin,etc.	Nm, Ncm, kgFcm, lbFin, ozFin,etc.
Interface	7" capacitive touchscreen	7" capacitive touchscreen
Food	12V Mains Outlet Rechargeable Battery (optional)	12V Mains Outlet Rechargeable Battery (optional)
Connectivity	USB, WiFi, Ethernet, RS232 virtuel	USB, WiFi, Ethernet, RS232 virtuel
Exportation	CSV, PDF, Data-Xport (option)	CSV, PDF, Data-Xport (option)
Type of programs	Single measurement only	Simple measurement, Advanced programs, Double Peak, Between 2 thresholds, etc...
Registration	Programs and results unlimited	Programs and results unlimited
Batch management	Simple management	Advanced management
Traceability & Data Integrity	Non	FDA 21 CFR Part 11 Compliant, Audit trail, User profiles
LANGUAGES	FR, EN, ES, IT, ALL	FR, EN, ES, IT, ALL

ACRN A GLOBAL OFFER *for your packaging quality controls*



Calibration and annual maintenance

on-site or in-lab services are available. ACRN has a metrology laboratory.

Implementation of tests, choice of materials, state of the art, work on repeatability

we can advise you according to your needs (technology, budget, ergonomics).

Leakage and dynometry test

We provide you with our skills and our equipment for leak testing and dynometry for packaging.

Major manufacturers have trusted us for many years

