QUALITY CONTROL MACHINES
INDUSTRY & PACKAGING

INTELLIGENT ELECTRONIC TORQUE TESTER

SKILL TORK +

MEASURE THE TORQUE, AND PROVE THE RESULT.

Application and removal torque testing, and inspection of all screw-fastened assemblies and packaging.
From routine checks to the most demanding applications, with Option +.



- **5″ touchscreen (800×600): Pass / Fail verdict for each measurement**
- **Sensors from 1 to 25 N·m: clockwise and counterclockwise**
- **Option +: advanced application programs, batch management, compliance and communication, now available across the entire ACRN range.**
- **Embedded software with web server: results export with no client installation**

1→25	7	5″	±0.3%
N·M · TORQUE CAPACITY	PROGRAM MODELS	COLOR TOUCHSCREEN	FULL SCALE

MEASUREMENT · PROGRAMS · BATCHES · TRACEABILITY

PRESENTATION

ONE DEVICE, TWO LEVELS OF USE.

SKILLTORK covers daily control; Option + adds application programs, batch management and compliance. The same Option + is available on all ACRN machines.



01 / SIMPLICITY

Ready to measure

Ready to use out of the box: integrated sensor, thresholds per product, immediate verdict.

02 / ADAPTABILITY

A wide choice of fixtures

4-pin quick-release fixture as standard; Grip-cubes, risers and custom fixtures as options.

03 / SCALABILITY

Option + on demand

Custom programs, statistics, pharma compliance: capabilities grow without changing the instrument.

04 / CONNECTIVITY

Connected to your system

USB, Wi-Fi, Ethernet and embedded software with web server: results export and direct integration into your information system.

Containers tested with SKILLTORK

Any product whose closure must stay tight, yet reopen.



FOOD
BOTTLES & JARS



PHARMA
BOTTLES & PUMPS



COSMETICS
PERFUMES



COSMETICS
JARS



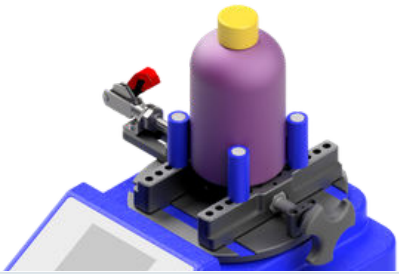
PETROCHEMICALS
CANS & JERRYCANS

FIXTURES & GRIP

A GRIP FOR EVERY SHAPE.

Measurement quality starts with the grip: a body that rotates or deforms distorts the measured torque.
SKILLTORK accepts the full range of ACRN fixtures, from the standard one supplied with the instrument to a fixture machined to your sample.

FIXTURES



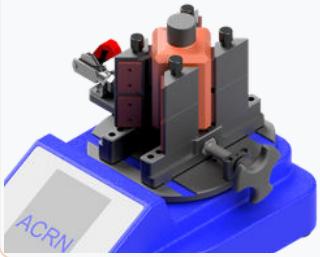
INCLUDED AS STANDARD
4-pin quick-release fixture

Four adjustable pins with lever locking: instant centering, quick release between samples. For cylindrical and square bodies.



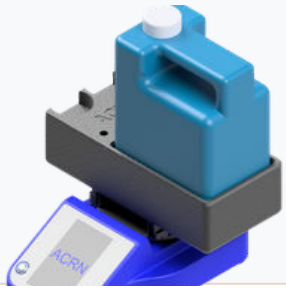
OPTION
Grip-cubes

Anti-slip cubes for soft, deformable or slippery bodies.



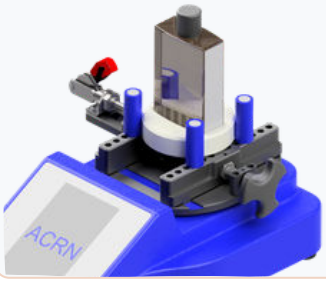
OPTION
Grip-cube risers

Raise the grip point on tall containers: the cap stays at measuring height.



CUSTOM
Jerrycan tray

For jerrycans, even with an off-center cap: 3D-printed cradle based on your sample.



CUSTOM
Custom cradle

3D-printed to the shape of your bottle, it holds it firmly during measurement.

LEGACY ACRN FIXTURES: STILL AVAILABLE



LEGACY
V-jaws

Self-centering V-jaws for cylindrical bodies.



LEGACY
Jaws

Firm grip for reinforced holding.



OPTION
Cap tool

For ribbed caps, with T-bar and matching jaw.

CUSTOM

Send us your samples, the largest and the smallest: we will propose the right fixture and validate the grip before manufacturing.

DATASHEET

TECHNICAL SPECIFICATIONS.



25 N·M	5″	8 GB
MAX SENSOR	TOUCH SCREEN	DATA STORAGE

SUPPLIED WITH

- One fixture
- User manual
- Power cord
- Calibration certificate

METROLOGY & COMPLIANCE

COFRAC-traceable calibration certificate supplied with the instrument. Programmable calibration due-date reminder.

MEASUREMENT

Torque capacity	1 / 2 / 5 / 10 / 25 N·m
Measurement direction	Clockwise & counterclockwise
Measurement modes	Peak · tracking · peak + auto reset
Accuracy	±0.3% of full scale
Resolution	0.001 N·m
Sampling frequency	5000 Hz
Protection	Reinforced IP rating
Max. sample diameter	120 mm

INTERFACE

Screen	5″ touchscreen · 800×600
Display	Real-time curve · Pass / Fail bar graph

PROGRAMS & TESTS

Programs	Unlimited · 7 models
Batch management	No batch · simple · advanced
Users	Name · password · permissions
Custom field	Customizable, linked to each measurement

COMMUNICATION

Connectivity	2× USB · Wi-Fi · Ethernet · RS232
Embedded software	Web server · data export
Results export	CSV · PDF

OPTIONS

Option +	Advanced programs, batches & statistics
Compliance & Traceability	ALCOA+ · FDA 21 CFR Part 11 · audit trail
Advanced communication	FreeWeigh · OPC · VNC · Modbus
Fixtures & motorization	Grip-cubes · REPEATORK

EQUIPMENT & ENVIRONMENT

Power supply	12 V mains adapter · 9000 mAh battery (optional)
Dimensions	W210 × D330 × H150 mm
Weight	3 kg
Operating conditions	5 → 35 °C · humidity < 90%
Languages	FR · EN · ES · IT · DE + on request

SERVICE

Services	Installation · DQ / IQ / OQ qualification
Warranty	2 years

COMPARISON

THE SAME DEVICE. TWO LEVELS OF SOFTWARE.

The hardware is identical in every case: it is the instrument described below. Only the software differs: what SKILLTORK gives you from day one, and what Option + adds.

The device

IDENTICAL IN BOTH CASES

- Sensor 1 → 25 N·m
- 5″ touchscreen (800×600)
- 4-pin quick-release fixture
- USB · Wi-Fi · Ethernet · RS232
- Embedded software (web server)

SKILLTORK

INCLUDED

01 **Basic & Essential programs**
Torque measurement, single batch, Pass / Fail for each measurement

02 **Real-time Pass / Fail**
Bar graph and verdict for each measurement, thresholds per product

03 **User permissions**
Operator · Key user · Admin

04 **Export & basic connectivity**
USB · Wi-Fi · Ethernet · RS232 · web server · CSV / PDF

Option +

IN ADDITION

\+ **Advanced programs**
Single peak, double peak, up to 10 peaks, between two thresholds

\+ **Advanced batches & statistics**
Several batches in parallel, batch closing, compliance calculated per batch

\+ **Compliance & traceability**

OPTIONAL PACKAGE

ALCOA+ · FDA 21 CFR Part 11 · audit trail · Active Directory

\+ **REPEATORK compatibility**

SEPARATE EQUIPMENT

Connects to REPEATORK, the motorized torque tester sold separately: effortless unscrewing, repeatable cycles. Requires Option +.

\+ **Test standards**
ASTM/ISO and custom models, deployed across the whole fleet

\+ **Named accounts**
Permissions by group

\+ **Advanced communication**

OPTIONAL PACKAGE

FreeWeigh · OPC · VNC · Modbus · remote control

→ ACTIVATION

At the time of order or later, on the same instrument, with the same logic on all ACRN machines.

APPLICATION PROGRAMS

A TEST PROCEDURE, NOT JUST A READING.

Apart from Basic mode, everything runs on configurable programs built from predefined models, matching your internal criteria or test standards. Unlimited number of programs.

SKILLTORK · standard programs

INCLUDED

MODEL 01

Basic

Direct torque measurement, no program: tighten, read the peak value.

SPOT CHECK



MODEL 02

Essential

Simple program with upper and lower thresholds: Pass / Fail verdict for each measurement.

ROUTINE CHECK



REMINDER

Unlimited number

As many programs as you have references: each one is selected on screen before the test.

THE WHOLE FLEET

Option + · advanced professional programs

IN ADDITION

MODEL 03

Single peak

Detects the single opening or closing peak, with its value and time.

STANDARD CAPS



MODEL 04

Double peak

Two distinct peaks in the same test: tamper band break, then unscrewing.

TAMPER-EVIDENT RINGS



MODEL 05

Multiple peaks

Up to 10 peaks in a single cycle, each time-stamped and compared to its threshold.

COMPLEX CLOSURES



MODEL 06

Between two thresholds

The torque is evaluated over a defined angular range, not at an isolated point.

SCREW ASSEMBLIES



MODEL 07

ASTM / ISO standards

Models compliant with test standards, deployable across the whole fleet.

STANDARDS COMPLIANCE



CUSTOM

A program model tailored to your company

A test plan written with you from your internal criteria, then deployed across all your instruments. Example: dual torque + force sensor for a CRC test.

PROPRIETARY METHOD

QUALITY ASSURANCE

IT DOESN'T JUST MEASURE. IT DECIDES AND TRACES.

01
Measurement
Real-time curve, calculated values.

02
The test
Automatic Pass / Fail, or declared by the operator.

03
The batch
Statistics (mean, standard deviation, Cp/Cpk) and compliance at batch closing.

04
Communication
CSV / PDF export, audit trail data.

Batch traceability: 3 levels

YOUR CHOICE

01 **No batch**
Single measurement, time-stamped and attributed to its user.

02 **Simple batch**
The batch number is entered once and repeated on each measurement.

03 **Advanced batches**
Created, closed, several in parallel, with batch statistics. Option +

User access: 3 modes

YOUR CHOICE

01 **None**
Free access: the instrument is open to all operators at the station.

02 **Simple**
Operator · Key user · Administrator, by password.

03 **Named**
Individual named login, or via Active Directory. Option +

Custom free field

USER-DEFINED

- A field you name (“Team”, “Line”, “Station”, “Work order no.”), attached to each measurement and included in the export. Each program keeps its own value.

Capacity

UNLIMITED

8 GB
ONBOARD STORAGE

∞
TESTS & BATCHES

PHARMACEUTICAL REQUIREMENTS · COMPLIANCE & TRACEABILITY

OPTION +

ALCOA+ · FDA 21 CFR PART 11

For the pharmaceutical and healthcare industries, where every measurement must remain attributable, legible and tamper-proof until the audit.

- **Access** — Individual named login, or via Active Directory.
- **Data** — Guaranteed retention, deletion blocked.
- **Audit trail** — Before/after values, cannot be modified.
- **Time** — NTP time server.
- **Export** — CSV and PDF files from the web server.
- **Backup** — Configuration, programs and results can be restored.

ACCESSORIES & OPTIONS

COMPLETE YOUR INSPECTION STATION.

Printing, traceability, protection and sample holding: ACRN accessories can be added to the Skilltork with the order or later. Installation and qualification services support the start-up.

PRINTING & TRACEABILITY

OPTION
Safescan thermal printer

Measurement ticket printed at the station, with value, verdict and batch.

OPTION
Epson dot matrix printer

Printing on paper roll, for durable paper archiving.

OPTION
Barcode scanner

Wireless USB laser scanner: enter the batch or product without a keyboard.

PROTECTION & WORKSTATION

OPTION
Screen protection visor

Protects the touchscreen from splashes and impacts.

OPTION
Mounting base

Fixes the Skilltork to a bench or a wall for a stable station.

SAMPLE HOLDING

OPTION
Silicone pins H20 / H60 / H90

Sets of 4 pins to adapt the grip to the height and shape of the container.

OPTION
Small sample riser

With adjustment knob, for small bottles.

SERVICES

Start-up by video call or on site with an ACRN technician
On-site IQ / OQ / QC qualification

TAKE IT FURTHER

REPEATORK TORQUE TESTER

Upgrade to the motorized version for optimal repeatability and accuracy, and fewer musculoskeletal disorders (MSDs) caused by repetitive unscrewing. Adopted by the cosmetics, pharmaceutical and food industries.

MODE 01

Simple

Standard screwing and unscrewing, ideal for routine checks on the production line.

MODE 02

Advanced

Angle or torque control, for precise tightening specifications.

MODE 03

Quality

Opening torque check + reclosing: a complete quality control protocol.



REPEATORK · MOTORIZED TORQUE TESTER

± 0.3%	3×	3
REPEATABILITY	TIME SAVED	OPERATING MODES

THE COMPLETE ACRN OFFERING

CONSULTING, CALIBRATION, LEAK TESTING.

Test setup, calibration and maintenance on site or in the ACRN metrology laboratory; expertise in packaging leak testing and torque testing. Response within 48 working hours.

CONTACT
ACRN · PARC D'ACTIVITÉS
DU MOULIN D'ECALLES
76750 BUCHY · FRANCE

Tel. +33 (0)2 32 80 81 40
Fax +33 (0)2 32 80 14 44
commercial@acrn.fr · www.acrn.fr

Trusted for years by major names in industry.

L'ORÉAL PARIS · SANOFI · DANONE · Nestlé · Pierre Fabre · General Mills Making Food People Love · CHANEL