

ELECTRONIC TORQUE TESTER

NBA

A robust and versatile model for measuring application and removal torque, chosen by many packaging manufacturers.

- Reinforced self-stabilising sensors: accurate test after test
- Full range of ACRN fixtures, including custom designs
- Connectivity: RS232 and optional printer

**1 → 25**

N·M · TORQUE CAPACITY

±0.3%

OF FULL SCALE

IP

ENHANCED PROTECTION

APPLICATION

THE TORQUE TESTER FOR PRODUCTION.

Designed for production environments, the NBA measures the application and removal torque of screw-capped products, with the ruggedness required on the shop floor.

Reinforced self-stabilising sensors, battery operation and enhanced IP protection: it keeps pace while remaining accurate, test after test.



Key benefits of the NBA

01 / RUGGEDNESS

ACRN quality

Durable, independent components provide a long service life, faster and more cost-effective support, and continuous machine upgrades.

02 / ADAPTABILITY

A wide range of fixtures

Accepts ACRN's extensive fixture range, backed by 20 years of experience, for a secure grip on every sample.

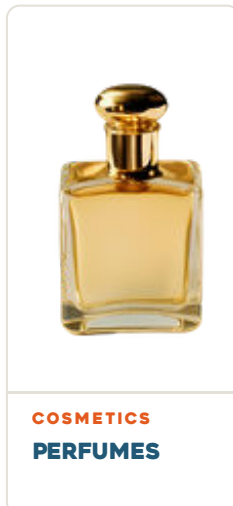
03 / CONNECTIVITY

A connected instrument

Easy integration via RS232, with ticket printing on a thermal or dot-matrix printer.

CONTAINERS TESTED WITH THE NBA

For screw-capped products in any sector: send us your samples and we will validate the measurement.



MEASUREMENT & RELIABILITY

ACCURATE MEASUREMENT, IMMEDIATE DECISIONS.

Key benefits

- 01 | Easy to use. Simple interface with no complex settings: operators can measure right from commissioning.
- 02 | Repeatability. Reinforced self-stabilising sensors keep peak readings reliable, measurement after measurement.
- 03 | Standalone & mobile. Optional lithium-ion battery provides up to 24 hours of cable-free operation.
- 04 | Rugged on the shop floor. Enhanced IP protection and 150% overload capacity with audible alarm.
- 05 | Secure. Password-protected administrator access and programmable calibration due-date reminder.
- 06 | Connected. RS232 serial protocol and thermal or dot-matrix printer for ticket printing.
- 07 | Wide fixture range. Compatible with all ACRN fixtures for perfect sample holding.

Measurement

TORQUE UNDER CONTROL.

Sensor capacity	1 → 25 N·m
Modes	Peak · tracking · peak + auto reset
Units	N·m · lbf·in · N·cm · kgf·cm
Accuracy	±0.3% of full scale
Resolution	0.001 N·m (< 10 N·m) · 0.01 N·m (≥ 10 N·m)
Sampling rate	5000 Hz
Permissible overload	150% · audible alarm



Sensor drift indicator: the NBA flags any anomaly before it affects the measurement.

The 3 display modes

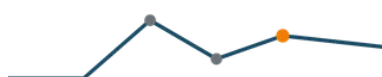
Peak

The instrument retains the maximum value reached during the test: the cap breakaway torque used for compliance checks.



Tracking

The display follows torque in real time as it rises and falls, making it easy to observe cap behaviour during the test.



Peak + auto reset

The peak value is displayed, then resets automatically after 3 or 5 seconds, ready for the next test without operator input.



FIXTURES & GRIPPING

PERFECT GRIPPING, FOR EVERY SAMPLE.

The NBA accepts ACRN's extensive fixture range. Send us your largest and smallest samples and we will recommend the right fixture.

FIXTURES



SUPPLIED AS STANDARD WITH THE INSTRUMENT



Four-pin fixture

Versatile four-pin adjustable fixture for multiple formats and fast sample changeover. Suitable for cylindrical and square containers.

STANDARD

QUICK RELEASE



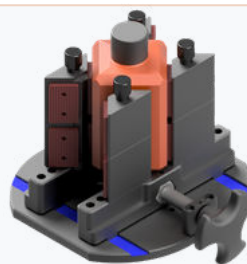
OPTIONAL

Grip-cubes

Non-slip cubes for soft, deformable or slippery containers.

STANDARD

QUICK RELEASE



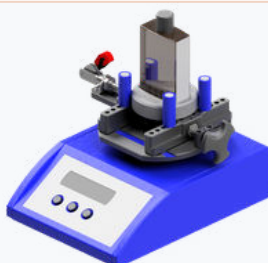
OPTIONAL

Grip-cube risers

Raise the grip point on tall containers so the cap remains at measurement height.

STANDARD

QUICK RELEASE



OPTIONAL · CUSTOM

Custom cradle

3D-printed to match your bottle shape, it holds the sample securely during measurement.

STANDARD

QUICK RELEASE



OPTIONAL · CUSTOM

Jerrycan tray

For jerrycans, including offset caps: a 3D-printed cradle made to your sample.

QUICK
RELEASE

Quick-release version, available for every marked fixture: instant lever locking with no adjustment. Fewer handling steps and less strain.



LEGACY ACRN FIXTURES: STILL AVAILABLE



LEGACY

V-jaw fixture

Self-centring V-jaws for cylindrical containers.



LEGACY

Jaw fixture

Firm grip for enhanced sample holding.

OPTIONAL
Operating
tool

For ribbed caps, with a T-bar and matching jaws.

CUSTOM

Supplied as standard with a fixture suited to your main sample. Compatible with the full ACRN range, developed over 20 years.

TECHNICAL SPECIFICATIONS

DATA SHEET.

**25
N·M**MAX.
SENSOR
CAPACITY**±0.3%**FULL-SCALE
ACCURACY**4.3
KG**

WEIGHT

SUPPLIED WITH

One fixture

User manual

Power cable

ISO 6789:2017 certificate

METROLOGY & COMPLIANCE

ISO 6789:2017 calibration certificate traceable to COFRAC supplied with the instrument. Programmable calibration due-date reminder.

MEASUREMENT

Sensor capacity	1 / 2 / 5 / 10 / 25 N·m
Measurement modes	Peak · tracking · peak + auto reset
Units	N·m · lbf·in · N·cm · kgf·cm
Accuracy	±0.3% of full scale
Display resolution	0.001 N·m (< 10 N·m) · 0.01 N·m (≥ 10 N·m)
Sampling rate	5000 Hz
Sensor overload	150% · audible alarm

INTERFACE

Display	80 × 21 mm backlit LCD
Languages	FR · EN · ES
Sensor information	Drift · calibration date
Access control	Admin · password

COMMUNICATION

Data output	RS232
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FIXTURE

Lower fixture	Four pins · with or without toggle clamp
Accessories	Grip-cubes · quick jaws · custom

HARDWARE & ENVIRONMENT

Overall dimensions	W180 × D260 × H80 mm*
Package dimensions	W500 × D400 × H320 mm
Weight	4.3 kg
Power supply	220 V · 50-60 Hz
Protection	Enhanced IP protection
Operating temperature	4 → 37 °C

RESULTS EXPORT

Printer	Thermal or dot-matrix
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SERVICE

Warranty	2 years
Calibration	On site or at the ACRN laboratory

* Overall dimensions with four-pin fixture.

COMPLETE ACRN SUPPORT

CONSULTING,
CALIBRATION, LEAK
TESTING.

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

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