



# REPEATORK

MOTORIZED TORQUE METER FOR SCREWED PACKS



MAKE YOUR TORQUE MEASUREMENTS  
TORQUE MEASUREMENTS WITH  
REPEATORK!



# REPEATORK

## MOTORIZED TORQUE METER FOR SCREWED PACKS

### FUNCTION

#### Measuring the unscrewing torque of screwed plugs and pumps is a key factory check

It can be used to ensure tightness and correct screwing, including process and packaging problems. It is, however, controversial because of the variability of measurements obtained by manual unscrewing.

The result of many years of development in conjunction with packaging manufacturers, Repeatork is **the solution for precise, reliable torque measurement**. It guarantees repeatability, ergonomics and ease of use at a controlled cost.

It enables manufacturers to quickly and easily improve the quality of their unscrewing torque measurements and consolidate their quality assurance.



### PRINCIPLE :

The Repeatork is a motorized torque meter that eliminates the human effect when unscrewing the cork. It ensures perfect centering, constant speed and optimal gripping of the cork. The torque values obtained are reliable and repeatable.

### TYPES D'EMBALLAGES :

● Bottles, flasks, pump containers, canisters, perfumes, screw-top cans... For the food, pharmaceutical, cosmetics and petrochemical industries...



Perfect centering,  
constant speed,  
and optimal cap  
grip





With 20 years' experience in the field, ACRN can guide you through these settings and provide you with industrial target torques.

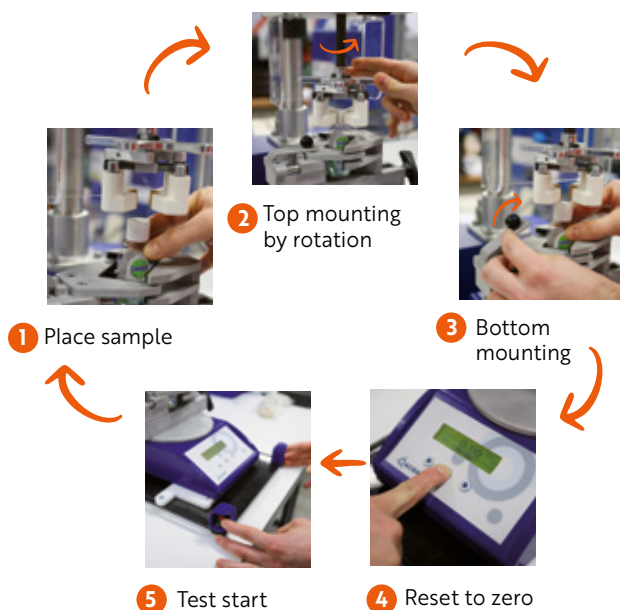
It's a fast, simple and totally repeatable test, used by many packaging manufacturers.

## OPERATION AND SET-UP :

The Repeatork incorporates all the functions of a conventional tabletop torquemeter, with the addition of motorization:

- **Simple screw-on/screw-off mode** : the operator unscrews or screws at a preset speed and recovers the measured value.
- **Angle or torque screwdriving/unscrewing mode** : Define angle, torque and speed thresholds in both directions according to your control protocols.
- **Open torque control mode then torque tightening** : Ideal for line-side testing of finished products, it allows you to tighten to the target torque once unscrewing has been completed, and no longer discard the test sample.

Test procedure :



## BENEFITS :

- **Repeatable measurements**, neutralizing the human effects of manual torquemeters.
- Equipment compatible with ACRN manual torquemeters of all generations, past and future.
- **A product designed to manage the diversity of your samples** : an innovative clamping system with interchangeable «FAST» jaws makes it possible to manage product diversity in record time, while guaranteeing optimum gripping of the cap without deforming it.
- **Fast control** to free up maximum operator time.
- Affordability.
- **Reduction of musculoskeletal disorders.**



## FUNCTIONALITIES

<b>Torque measurement</b>	Max (peak), Max with lower limit, Reset
<b>Units</b>	N.m / lbf.inch / N.cm / Kgf.cm
<b>Sampling frequency</b>	5000 Hz
<b>Sensor capacity</b>	Self-stabilizing reinforced transducers capacity (N.m) : 0.5/ 1/ 3/ 5/ 10 / other torque options
<b>Statistics</b>	Printable end-of-batch statistics
<b>Sensor information</b>	Sensor offset indicator in case of hardware problem
<b>Calibration date</b>	Programmable calibration overrun reminder
<b>Access limit</b>	Administrator access with configurable password
<b>Data transmission</b>	Optional data export software / AutoOutput possible AutoOutput possible
<b>Angle measurement</b>	From 0 to 10,000°C

## ACRN, AT YOUR SIDE FOR YOUR PROJECT :

Simply provide us with examples of each sample to be checked, including the largest and smallest. ACRN will provide you with solutions for bottom clamping and top drive.

The Repeatork will adapt to your product developments (new packaging, new closures). If necessary, new jaws can be ordered.

ACRN offers more advanced and personalized support for the transition from manual to motorized measurements (impact studies, etc.).



### SUPPLIED WITH :

- Calibration Kit
- Instructions and cable
- Calibration certificate

### OPTIONS

Revolution counter for precise unscrewing height
Low clamps according to ACRN range available
Advanced model: 8 Pass/Fail sound and bar/graph programs, storage of 200 measurement values, connector for connecting external sensors
Extended column: + 100 mm and + 200 mm

## SPECIFICATIONS

### TECHNICAL SPECIFICATIONS :

General			
Dimensions	W300*D500*H770 mm		
Weight	20 kg		
Maximum sample height	250 mm (optional up to 530 mm)		
Maximum sample diameter	140 mm		
Power supply	110V AC / 230V AC - 50Hz / 60 Hz		
IP classification	IP52		
Noise level	<40 dB		
Environment	From 4° to 37°C		
Warranty	2 years		
Torque measurement section			
Measurement capacity	Self-stabilizing reinforced transducers capacity (N.m) : 0.5/1/ 3/ 5/10		
Units	N.m / Lbf.inch / N.cm / Kgf.cm		
Precision	0,1 %		
Resolution	0,001 N.m		
Data output	RS232 with serial communication protocol, Ethernet /IP optional		
Motorized arm section			
Rotation speed	From 1 to 60 tours/min		
Angle	1°		
Maximum torque	10 N.m		
Screen	3,5"		
Operating mode	-Simple screw-on/screw-off mode -Angle or torque screwdriving/unscrewing mode -Open torque control mode then torque tightening		
Torque stop	Yes		
Possible column height	standard	options	
	300 mm	400 mm	500 mm
Languages	French / English / Spanish / Italian		

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## ACRN A GLOBAL OFFER *for packaging quality control*



### Calibration and annual maintenance

on site or in the laboratory. ACRN has its own metrology laboratory.

Test set-up, choice of materials, state of the art, work on repeatability  
we can advise you according to your needs (technology, budget, ergonomics, etc.)

### Leak and torque testing

we offer you our expertise and our leak-testing and dynamometer equipment  
and dynamometry equipment for packaging.

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*Major manufacturers have been placing their trust in us for many years*

