

# VORTEX-I AUTOMATED TORQUE METER





THE OPTIMIZED MODEL WITH UNLIMITED POSSIBILITIES

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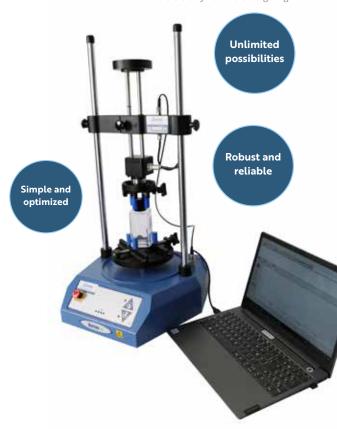
#### **FUNCTION**

The Vortex-I is a **high-end torque meter controlled by software running on a PC**. Precise, easy to use, and optimized by the choice of its materials and features, it allows **the measurement of static torque up to 10 Nm**. The leading flexible solution for automated torque testing on a wide range of plugs and components.

A simple and efficient solution to simulate your daily torque applications in many sectors.

A rugged two-post frame capable of applying torque up to 10 Nm (90 lbf.in). Large and wide enough to accept a variety of test specimens, yet compact for use as laboratory equipment.







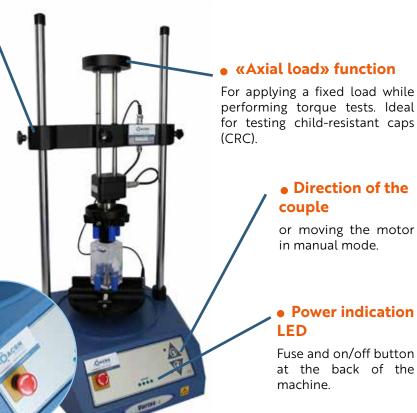
fully adjustable multi-purpose stand (optional) for positioning and mounting a wide range of samples. Custom accessories also available upon request.

#### Solid construction

Robust and waterproof base, ideal for use in production and laboratory environments. Designed in a controlled environment with CE marking to meet European safety and environmental protection standards.

#### Emergency Stop Bottle

For safety and CE conformity.









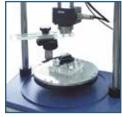


#### **TECHNICAL INFORMATION**

VORTEX I	0,3 N.m	1,5 N.m	3 N.m	6 N.m	10 N.m	
Capacity N.m	0 - 0,3	0 - 1,5	0 - 3	0 - 6	0 - 10	
Kgf.cm	0 - 3	0 - 15	0 - 30	0 - 60	0 - 100	
lbf.in	0 - 2,7	0 - 13	0 - 26	0 - 52	0 - 90	
Dimensions						
Maximum crossbar travel	182 mm (7.2")					
Max. base/axis travel of the sensor	505 mm (19.9") 448 mm (17.6")*					
Width between columns	280 mm (11.02")					
Weight	19,5 kg (481b)					
Diameter of the lower gripping plate	10 - 190 mm (0,39 - 7,5")					
Diameter of the upper gripping plate	10 - 78 mm (0,39 - 3,07")					
Maximum power required	100 W					
Voltage	230 V AC 50 Hz or 110 V AV 60 Hz					
Torque measurement						
Torque transducer capabilities	0,3, 1,5, 3, 6 et 10 N.m					
Accuracy	±0,5% of the full scale					
Resolution	1:6500					
Units	mN.m, N.cm, N.m, kgf.cm, gf.cm, ozf.in, lbf.ft, lbf.in					
Speed						
Speed range	0,1 - 20 trs / min (in both directions)					
Accuracy	±1% of the indicated speed					
Resolution	±0,1 trs/min					
Rotation						
Maximum rotation	2440 trs					
Accuracy	0,2" per 36,000°					
Resolution	0,001 trs (±0,2°)					
Software						
Digital reading of load / angle / speed	yes					
Communication with the test bench	via RS232 port or USB port (converter supplied)					
Required features	100 Mb available HD, CD-Rom + RS232/USB port available					
Operating system	Comp	Compatible with Windows® 2000, XP, Vista 7, 8 and 10				
Acquisition speed		Choice of 1000 Hz, 500 Hz, 50 Hz and 10 Hz				
Secondary input	Event input (switch), digital controls I/O ports					
Data output	RS232 port (directly or via USB/network converter in ASCII format) ASCII (Export to table, SPC software)					

#### **SEVERAL APPLICATIONS**









**Test on Luer Lock** 

Headphone test

**Rotary test** 



#### **LOGICIEL EMPEROR**

The Emperor software is designed to work with Traction/Compression benches. It is suitable for use in the laboratory or factory.

It integrates 2 operating modes:

- A Console mode, which allows you to create simpleprograms and control the device with a minimum of buttons. Several pre-recorded tests are available. This mode is adapted to a factory use.
- A programmed test mode, more complete to push the capabilities of the traction benches even further.

#### Create

- Intuitive user interface
- Construction of step-by-step test routines
- One-click selection of preferred test procedures

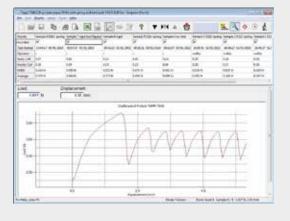
#### Test

- Real time graph
- Display of measured and calculated values
- Clear and precise indication of conformity (Pass/Fail)

#### Reports

- Standard and customizable models
- Print results in Adobe PDF format
- Export of the results to an Excel document and SPC







## ACRN A GLOBAL OFFER

for your packaging quality controls









#### Calibration and annual maintenance

ACRN is equipped with a metrology laboratory.

Setting up tests, choice of materials, state of the art, work on repeatability we can advise you according to your needs (tecnology, budget, ergonomics).

### Leak testing and dynamometric testing

Our skills and equipment for leak testing and dynamometric testing for packaging

Major manufacturers have trusted us for many years













