

TM 200

Proven tester for repeatable measuring of opening and closing force of bottle caps including child-resistant closures and pump caps. Universal or customized adapters for different style closures.

SOTAX



Cap Torque Tester



TM200 — Simple. Universal. Repeatable.



sotax.com/TM200

- Child-resistant closures
- Open and close torque
- Repeatable motorized movements
- Calibration with traceable weights
- Electronic data management

Motorized drive unit MDU2 for repeatable open and close movements

Setting of downward force for child-resistant bottle caps

Quick-change cap adapters, universal or custom-made to the specific shape of a cap

Suited for small bottles to large jugs

Print test protocols and calibration reports

Universal self-centering bottle holder

Calibration with traceable reference weights

Networking and data management with q-doc®





Universal.

The TM200 is specifically designed to precisely measure the opening and closing torque of bottle caps. Its universal holder accommodates anything from small bottles to large jugs. A high-precision load cell located in the main unit continuously measures the force throughout the testing process.



Molded cap adapter – tailored to individual cap shape

Repeatable.

A motorized drive unit eliminates inconsistencies that would otherwise occur with manual twisting of bottle caps. Caps can be automatically opened and closed with constant and repeatable velocity. For testing child-resistant caps, a defined downward force is exerted on the cap under test.

Cap adapters.

Molded cap adapters that are custom-made to the specific shape of a cap eliminate additional pressure typically caused by clamping or other cap fixtures. Alternatively, universal membrane cap adapters can be utilized for caps with a flat top – minimizing the necessary number of adapters.

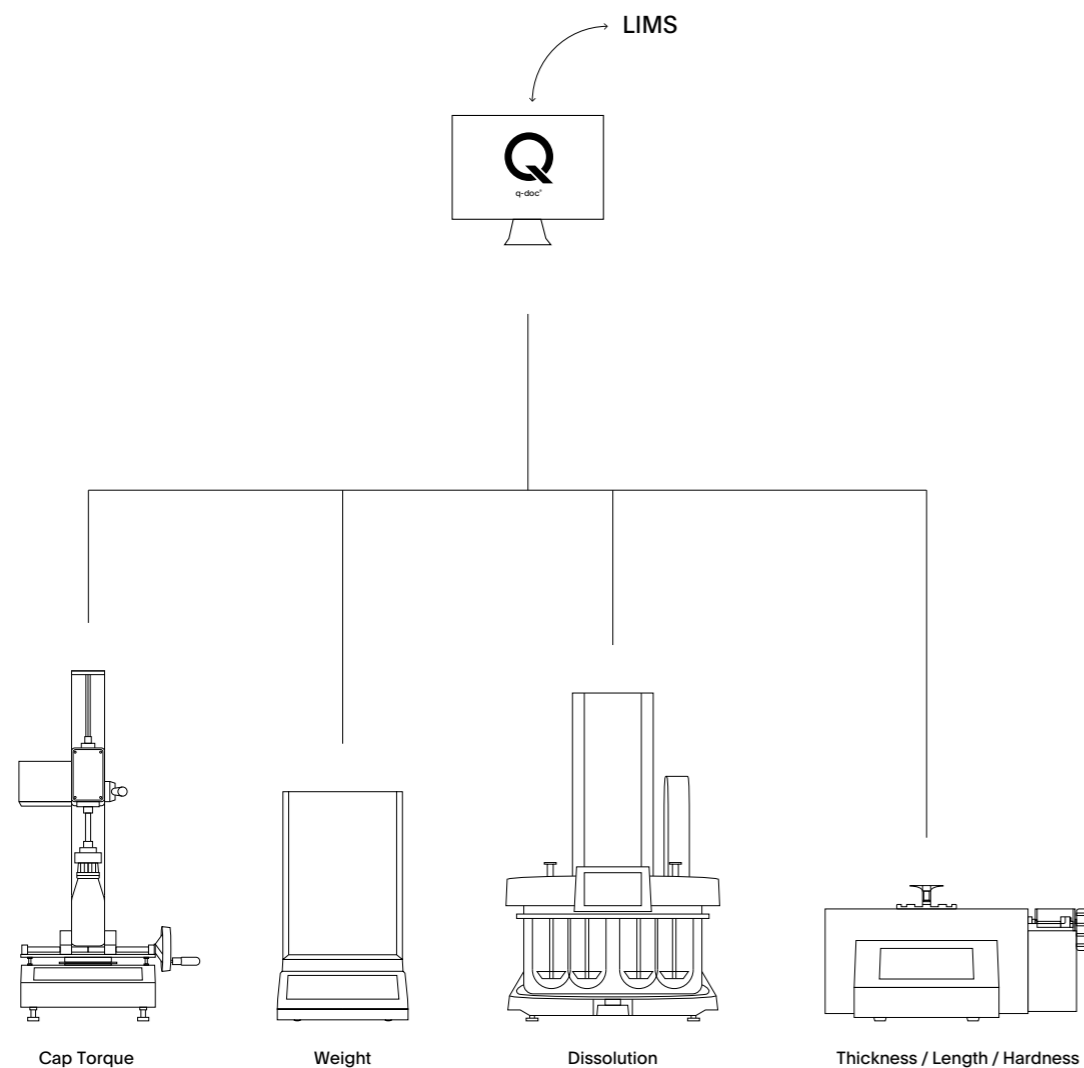


Universal membrane adapter – for caps with a flat top

Manage your test data.

The TM200 allows programming of up to 10 different products. For each test, up to 100 measurements can be protocolled and reported by connecting a printer. Alternatively, the TM200 can be connected with q-doc® software for electronic data collection and consolidated batch reporting from multiple instruments in different departments.

Example:
q-doc® network with TM200



TM200 Technical Specifications

Test modes	Open	●
	Close	●
	Open & Close	●
Torque range	0 – 452 Ncm (0 – 40 lbin)	
Unit of measure	Ncm, Nm, kgcm, lbin, lboz	
Bottle dimensions	Diameter range	20 – 220 mm
	Max. bottle height*	330 mm
Motorized drive unit	MDU2	○
Cap adapter*	Molded cap adapter, for bottle caps (custom)	○
	Molded cap adapter, for pump caps (custom)	○
	Universal membrane cap adapter, Ø small	○
	Universal membrane cap adapter, Ø medium	○
	Universal membrane cap adapter, Ø large	○
User interface	Program capacity	10
Printer	Epson® 40col.	RS-232 serial
Data Management	q-doc® software, for data collection	○
Interfaces	2 × RS-232 serial	
CE Conformity	The TM200 and MDU2 fully comply with all CE and EMC equipment guidelines relative to mechanical and electrical safety and electromagnetic compatibility.	

	TM200	MDU2 drive unit
Power supply	100 – 240 V / 50 – 60 Hz	100 – 240 V / 50 – 60 Hz
Weight	(without packaging) 11.5 kg (25.4 lbs)	20.5 kg (45.2 lbs)
Dimensions	Width	285 mm (11.2 inch)
	Depth	295 mm (11.6 inch)
	Height	190 mm (7.5 inch)

* with motorized drive unit MDU2

● included / required
○ optional

Technical specifications are subject to change without prior notice. Products illustrated in this brochure may include options or modifications not fitted as standard. No liability for errors and omissions.

