

Q50 Advanced Universal Testing Machine

The 50 kN Q50 is the Universal Testing Machine with the state-of-the-art design, built to the highest quality levels and with many advanced technical features.

Programming tests and monitoring results can be controlled through our powerful and intelligent Graphwork 5.0 test software, which allow complete and accurate data management in accordance with European, North American and International Standards.

This instrument is suitable for use both in production lines where the operator has to be fast and efficient and can accurately control the test with the optional remote control unit, and also laboratory environments where the advanced software lets users analyse the test data. Graphwork allows full control of processing, filing, managing, and transmitting data to the company network, database, and performs many other functions.

This Q50 frame has a flexible and modular construction. It can be equipped with various grips and fixtures, as well as extensometers, additional load cells, temperature chambers and many more accessories, for a wide range of applications (tensile, compression, flexure, etc.).

In addition, this user-friendly instrument can be fitted with additional load cells with lower capacities, providing the highest resolution and accuracy for micro-loads.

Technical specifications

Frame Capacity	50 kN (11,000 lbf)
Standards met or exceeded	ASTM E4, EN-ISO 7500/1
Load reading resolution	1/20000 f.s.
Stroke resolution	0.1 micron
Speed at maximum load	0,0005-500 mm/min.
Idle speed	500 mm/min.
Controlled total stroke	1000 mm (40 in.)
Maximum daylight between connecting adapters	1000 mm (40 in.)
Daylight between columns	410 mm (16 in.)
(Potential to extend minimum certified load to 1/500 f.s.)	
Power supply	230V/50Hz or 120V/60Hz
Power consumption	650 W
Machine weight (without accessories)	255Kg (561 lb)
(A compressed air line at six bar is required for some options)	

Dimensions:

Height	1635 mm (64 in.)
Width	790 mm (31 in.)
Depth	780 mm (30,5 in.)
Paint:	
Fixed parts	Silver RAL 9006 /Black RAL 9011
Moving parts	Black RAL 9011

- Two-column rigid system with 50 kN maximum capacity
Suitable for metals, plastics, textile, composites and other materials
- Stylish design and advanced features
- Two-Year Warranty
- Flexible and modular design for easy future expansion
- Key technical advantages include extremely high resolution of load and stroke readings, as well as minimum test speed of 0,0005mm/min, for the high performance and most accurate results
- Manufactured by an ISO 9001 –certified company
- Excellent price-to-quality ratio

