NG-EML Dual Colmn Bench Top- Universal Testing Machine (10N-20kN)

Standards: ISO 7500, ISO 2439

ULTIMATE USER-FRIENDLINESS

LEADING DEPENDABILITY AND RELIABILITY

STRICT COMPLIANCE WITH INDUSTRY STANDARDS

STOCKED CONSUMABLES AND SPARES

TRUSTED AFTER SALES TECHNICAL SUPPORT

LIFETIME PRODUCT SUPPORT ADVANTAGE

Description

The EML class B Series electromechanical universal testing machine (10N-20kN) addresses the needs of standardized and routine testing, providing the user high quality at the most affordable price. The dual column Class B testing systems are suited for tension, compression, flexure, and other testing applications where load range requirements are between 10N to 20kN. They are typically used for quality control and production testing in the plastics and rubber industries.

Force Capacity: 10N (2.24 lbf), 20N (4.49 lbf), 50N (11.24 lbf), 100N (22.48 lbf), 200N (44.96 lbf), 500N (112.40 lbf), 1kN (224.80 lbf), 2kN (449.61 lbf) , 5kN (1124.04 lbf), 10kN (2248.08 lbf), 20kN (4496.18 lbf)

Load Frame Configuration: Dual column, Table-top (integrated), Electromechanical

Test Space: Single Zone

Typical Specimens

Small components, reinforced plastics, soft metals, wire, composites, elastomers, wood products, textiles, biomaterials, paper products, adhesives, foam, consumer products

Electromechanical Universal Testing Machine (10N-20kN) Features

- Complete selection of sturdy, compact dual column load frame
- High-speed, low-vibration electromechanical drive
- Precision, pre-loaded ball screws
- Linear motion guides for superior alignment
- Versatile, easy-to-use software with pre-programmed industry standards library (ASTM, ISO, DIN, EN, BS, and more)
- High-resolution, digital closed loop controls (integrated into load frame)
- Automatic limit checking of crosshead position, overload, over temperature, over voltage, etc.

- Complete selection of grips, fixtures, environmental systems and extensometers
- Durable test space protection

Electromechanical Universal Testing Machine (10N-20kN) Technical Specifications

NG-EML Class B	
Model	EML101, EML201, EML501, EML102, EML202, EML502, EML103, EML203, EML503, EML104
Class	Class B, dual colum, table-top
Capacity	10N (2.24 lbf), 20N (4.49 lbf), 50N (11.24 lbf), 100N (22.48 lbf), 200N (44.96 lbf), 500N (112.40 lbf), 1kN (224.80 lbf), 2kN (449.61 lbf) , 5kN (1124.04 lbf), 10kN (2248.08 lbf), 20kN (4496.18 lbf)
Calibration Standard	ISO 7500, Class 1 / Class 0.5
Force range	0.2% - 100%FS / 0.4 – 100%FS
Force accuracy	±1.0% / ±0.5% of reading
Force resolution	1/500,000FS
Position accuracy	±0.50% of reading
Position resolution	0.027µm
Crosshead speed	0.001 – 500mm / min
Crosshead speed accuracy	within ±1.0% / ±0.5% of set speed
Crosshead travel	39.4" / 100cm (Can be extended to 130cm)
Test width	42cm / 16.5"
Dimensions	28.75" x 18.5" x 59.85" / 72.8 x 47 x 152cm
Power requirements	Single phase, AC220V ±10%, 50/60Hz, 400W
Weight	331lbs / 150kg

Control system

USB 2.0 communication

Data exchange between hardware and software via USB 2.0 interface and velocity of 12Mb/s. USB is main direction of development of communication, which has merits of high communication velocity, variety of communication mode(such as controlling , breaking, batch, real time ,etc.), and will be the main mode of communication.

YouTube Video: https://youtu.be/wZH0vRTj64A

ISO 2439 Method B - Test Pilot Software for Foam Compression Testing on Universal Testing Machine

* Request a formal quotation or send an e-mail to sales@nextgentest.com for the most up-to-date pricing and applicable discounts and incentives.