YOUR QUALITY TESTING CHOICE

1ATERIAL TESTIN

4025 Dorchester Road, Suite 303 Niagara Falls, ON L2E 6N1 Canada

+1 (888) 332 3582 🛛 🖷 +1 (905) 247-0555 🛛 🖾 sales@nextgentest.com

Electromechanical 10kN Universal Testing Machine

NG- EML CLASS B - Double Column Table Top

The EML Class B Series addresses the needs of standardized and routine testing, providing the user high quality at the most affordable price. The dual column testing systems are suited for tension and/or compression applications with load range requirements from 10N to 10kN. They are typically used for quality control and production testing in the plastics and rubber industries.

Typical Specimens

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

New Features

- Non-clutched drives, rated for full speed at maximum force
- Compact design saves lab space
- Wider test width

High Quality at an Affordable Price

- Pre-loaded ball screws and heavy duty bearings assure long life with zero backlash as well as linear low force and through zero performance. The result is accurate and repeatable measurements that truly represent the specimen characteristics rather than load frame deficiencies
- Fully-protected lead screw covers provide longer life and greater operator protection
- Easy-to-clean aluminum column covers with chamfered corners to facilitate access to the test area. T-slots are built in for simple, convenient attachment and positioning of testing accessories
- High-speed, low vibration, world-class, maintenance-free, AC servo motor and servo controller.
- Photoelectrical encoder built in servo motor system is for position measurement of crosshead
- Built-in bidirectional load cell is assembled in the middle crosshead to prevent any collisions and simple to perform compression or tension tests
- Dual action over-travel limits on all frames provide the highest
- level of safety and meet all international standards
- Remote control keypad facilitates test operation
- NG-400 controller provides high speed data acquisition with 8-CH A/D converting
- Full one-year warranty on parts and labor
- Free software upgrading



Controller

NextGen's DTC500 digital controller offers high speed and closed loop control of load, displacement and extension.

- Imported IC, more reliable
- Up to 1200Hz sampling frequency
- Up to 1200Hz closed loop control frequency
- 20bit resolution
- 16 digital input/output port
- Built in port for PC communication
- Expandable ports

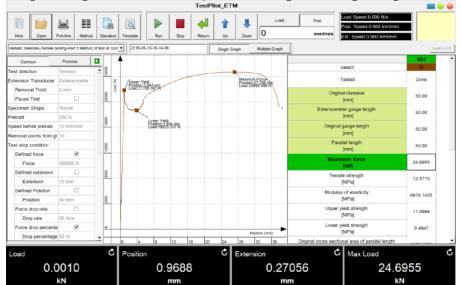
• Load protection, over current protection, over voltage protection, over speed protect, and over travel protection.

Remote Control with Display

- Ergonomically designed and easy to operate
- Fine tuning knob
- Test start and stop operation
- Crosshead moving up, down, jog up, jog down
- Display of measurement channel: force, displacement, extension and etc.
- Test status display
- Specimen protection function

Software

- Multi language software with built in English, Chinese and Russian, and user can customize their
- own translation freely
- Pre packaged test methods to help you quickly and efficiently meet the requirements of global test
- standards such as ASTM, ISO, DIN, EN, BS, and more
- Intuitive expression for easy programming of testing standards and testing process
- Testing report can be customized according to the requirement
- User authorization: The administrator can assign different functions for diffe rent level users
- Analysis can give typical test results like Young's modulus, Proof stress, Yield stress, stress, strain,
- Tensile strength, Elongation at break, compressive strength, bending strength, etc....





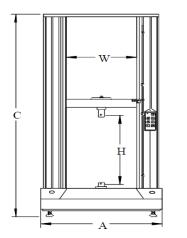
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New	Edit	Delete	Save	Cancel	ReName				Import Export
tallic mate	erials-Tensile	e testing-Part	1:Method of t	test at room t	emperature		• [15	SO 689	2-1-2009
Con	mon	Test direction				Tension			Determine test
Process		Extension Transducer				Extensometer			direction, Tension Or
		Removal Point				2	mm		Compression!
Parameters Pause Test									
Results		Specimen Shape				Ro	Round		
		Return to initial position after test							
Loa	dPid	Retur	n Speed			0	mm/min		
Evten	sionPid	Preload			250	N			
Exten	SIGHTIN	Speed before preload				10	mm/min		
Coordinate Axis Removal points			points from graph		10	Points			
Tempe	erature	Test stop	condition				100		
Temperature		Defined force				V			
Yield		Force				300000	N		
		Defined extension				0			
		E	xtension			10	mm		m
		Defined position Position Force drop rate			0				
					30	mm			
		D	rop rate			0	%/s		
		Force drop percentage			6	✓		v	

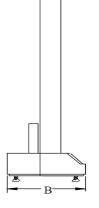
Full Complement of Test Accessories

Extensive range of accessories to meet test requirements in almost any application or industry: plastics, metals, biomedical, composites, elastomers, components, automotive, aerospace, textiles, and more.

- Tension grip
- Peel/tear fixture
- Compression fixture
- Flexure fixture
- Film COF test fixture
- S type load cells: 10N~5kN
- Long travel extensometer
- Clip-on extensometer
- Environmental chamber
- T-slot table
- Others









Environmental Chamber

Machine Dimensions:					
Frame type	Width x Depth x Height A x B x C (cm)	Crosshead travel H (cm)	Test width W (cm)	Adapter (cm)	Pin (cm)
Standard	72.8×47×152	100	42	Ф2	Ф1
30cm Extended	72.8×47×182	130	42	Ф2	Ф1

NG-EML Class B				
Model	EML101,EML201,EML501,EML102,EML202,			
	EML502, EML103, EML203, EML503, EML104			
Class	Class B, dual column, table-top			
Capacity	10N,20N,50N,100N,200N,500N,1kN,2kN,5kN,10kN			
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			
Crossneau travel	(Can be extended to 130cm)			
Test width	42cm / 16.5"			
Dimension	28.75 x 18.5 x 59.85"			
(Width x Depth x Height)	72.8 x 47 x 152 (cm)			
Power requirements	Single phase, AC220V±10%, 50/60Hz, 400W			
Weight	331lbs / 150kg			

Shipping Information				
Paakaga	Particleboard pallets and plywood case,			
Package	Or fumigated wood case			
Crated dimension	37 x 32.3 x 68.50-inches			
(Width x Depth x Height)	940 x 820 x 1740 mm			
Crated Weight	551lbs / 250kg			

NORTH AMERICA (CORPORATE HEADQUARTERS): 170-422 Richards St., Vancouver, BC, V6B 2Z4 Canada CALIFORNIA: 3503 Jack Northrop Ave., Suite # AF937, Hawthorne, CA 90250 Toll Free:+1 (888) 332-3582 | Fax: +1 905 247-0555 | www.nextgentest.com