

NEXTGEN
MATERIAL TESTING



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PLASTICS AND RUBBERS TESTING TECHNOLOGIES

1 (888) 332-3582

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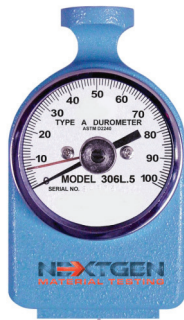
NG-306L TYPE A DUROMETER CLASSIC STYLE



Features:

- Meets or surpasses the Type A current ASTM D2240 Specifications
- Precision of ± 1 Point
- Max Hold Pointer Standard
- It has the A2LA/NIST Certification
- Readable and simple 0 to 100 Point Dial
- It has Accessory Test Stands
- Comes with Strong Carrying Case and Precision Aluminum Test Block

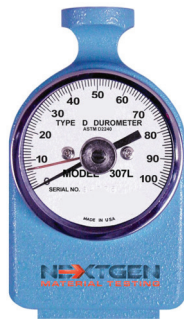
NG-306L.5 TYPE A DUROMETER HALF POINT ACCURACY



Features:

- Meets or surpasses the Type A current ASTM D2240 Specifications
- Precision of $\pm 1/2$ Point
- It has the NIST Certification
- Max Hold Pointer Standard
- Readable and simple 0 to 100 Point Dial
- It has Accessory Test Stands - Spring or Deadweight Loaded

NG-307L TYPE D DUROMETER CLASSIC STYLE



Features:

- Meets or surpasses the D2240 Type D specifications stipulated by ASTM
- Precision of ± 1 Point
- Comes with an NIST Certification
- Simple and readable 0 to 100 Point Dial
- Max Reading Pointer Standard
- It has Accessory Test Stands -- Spring Loaded or Deadweight



NG-E2000A PORTABLE DIGITAL SHORE DUROMETER TYPE A NG-E2000D PORTABLE DIGITAL SHORE DUROMETER TYPE D

Features:

- Includes NIST/A2LA to ISO 17025 Certification
- 1.25" Diameter Base - The Best Size & Shape for Making Measurements
- Max Hold Pointer Standard
- LCD Display with 0.1 Point Resolution
- All models have Accessory Test Stands
- Comes with Precision Aluminum Test Block, Batteries, 115V AC Adaptor & Carrying Case



NG-7000D HYDRAULIC STAND

Features:

- The descent rate is hydraulically regulated
- Cam Actuated Raise and Lower
- Amendable Specimen Support Table
- Removes User Error
- Increases Precision
- Includes an NIST Certification
- Indented to Specimen



NG-7000A HYDRAULIC STAND

Features:

- The descent rate is hydraulically regulated
- Cam Actuated Raise and Lower
- Amendable Specimen Support Table
- Removes User Error
- Increases Precision
- Includes an NIST Certification



NS-610 - AUTOMATIC MOTORIZED DUROMETER STAND FOR PORTABLE UNITS

Features:

- The use of a stepping motor when measuring rubber hardness allows for stable measurements and reliable results by eliminating the data discrepancies common with the portable testers.
- The stand is equipped with an alignment unit to ensure the best cohesion between the durometer's indenter and the testing material.
- 1kgf measurements can be made by selecting Shore A and Shore E durometer's without any additional accessories. The optional NG-046 4kgf weight is required when taking measurements with a Shore D durometer. The NG-090 additional 1kg weight is required when taking measurements using any of our digital handheld durometer's.
- ISO documents can be issued with this instrument as optional

NS-680 - FULLY AUTOMATIC IRHD/M-METHOD MICRO INTERNATIONAL RUBBER HARDNESS METER

Features:

- Durometer hardness (Shore A/E) testing method provides an accurate approximation of the true Shore value in compliance with JIS K 6253. This allows the user to have IRHD/M and Shore OO readings compliant with ISO/ASTM standards while having a universal machine that can provide a good approximation of the Shore A/E hardness readings.
- The hardness of O-rings or small-sized rubber parts can be automatically measured
- Voice-coil motor is configured to the loading system. This allows our tester to stand out from the common weight system, and allows for friction and the reproducibility of our internal mechanisms to provide the most accurate readings.
- Since our testing table is large, various measuring tools and accessories can be accommodated and utilized with the NS-680 system.
- Fully automatic software can be configured and easily adjusted for simple use and accurate results.
- Calibration documents can be issued as option.





AKRON ABRASION TESTER - GENKRON SERIES

GenKron is used together with a special balance for testing the abrasive consumption of materials. The measurements are done through volumetric loss of a rotating specimen exposed to the action of a standard grinding wheel. It is especially suited for testing harder materials such as shoe soles, tires and other rubber materials.



BURST STRENGTH TESTER - GENBURST SERIES

GenBurst is designed to test anti-rupture strength of variety of materials such as leather, paper and fabric. The unit tests the resistance of specimens to bursting using a hydraulic diaphragm bursting tester.



DIN ABRASION TESTER - GENDIN

GenDin, is designed to conform to the ASTM D5963 and ISO 4649 standards. This top quality and highly popular abrasion tester will allow you to measure the abrasion resistance of rubbers (vulcanized thermo set rubbers and thermoplastic elastomers) that are subject to abrasive/frictional wear on their actual service. Since wear is always a result of abrasion, different test methods have been developed for the simulation of long term wear.



DEMATIA FLEX-CRACKING TESTER - GENFLEX SERIES

GenFlex tests the ability of rubber products to withstand repeated flexing without developing cracks is of prime importance where such products are used in conditions undergoing repeated flexing.

Flexing endurance of rubber products is determined by simulating in laboratory the action of flexing repeatedly under standard conditions of speed, mode, and degree of flexing.

MARTINDALE ABRASION TESTER - GENDALE



GenDale is mainly used to test shoe fabric, shoe lining, and many other types of shoe related materials. The unit can test up to four specimens at the same time for abrasion. The fabric specimen is measured by having rubbing applied on it via a complex direction of back and forth motion. The accuracy of abrasion strength is determined by the specific number of cycles conducted until a hole appears in the test area of the fabric specimen.



DISCOLORATION METER - GENDISCO

The machine is used to simulate an environment of sunlight radiation on a specimen to identify the resistance of fabric to discoloration.



MOONEY VISCOSITY TESTING MACHINE - GENMOONEY

GenMooney is a viscosity testing machine is applied to measure the viscosity of the unmixed or mixed unvulcanized natural rubber, synthetic rubber and regenerated rubber. This tester has many functions such as fast warming, maintaining temperature, data stability, etc. It is equipped with an automated calibration feature for a simple data calibration of each experiment.



ELECTRIC CROCKING TESTER - GENCROCK

The machine is used to test the dyeing of the fabric, and the fade degree of the leather after dry or wet rubbing. The test method involves the specimen to be fastened to the base of the crocking meter and rubbed with an abrasive hammer attached to a wet or a dry cloth under controlled conditions. The transfer of colour is then measured using a scale to evaluate the rating of the specimen's dyeing grade.



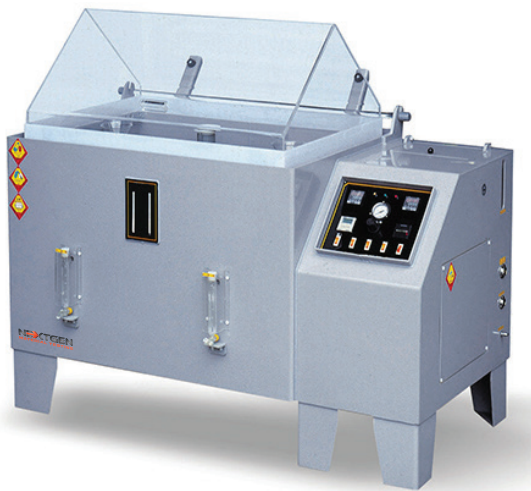
FREEZING TESTER - GENFREEZE

GenFreeze is specially designed to test the characteristics of various materials in a cold environment to ensure suitability for use in a cold climate. Based on the testing demand, adjust the beater and flexing grip, then load to the desired position. It can be used to test rubbers, leather, and plastics, PU leather etc. The unit can be adjusted to meet different requirements.



OSCILLATING / AUTOMATIC DISK RHEOMETER (ODR) - NG-ODR

This machine is designed to get the characteristic curve and characteristic parameters of rubber vulcanization by measuring the applied moment of rubber to the oscillating dye body. NG-ODR rotor-free vulcameter has an excellent stability of results. The data and diagrams can be used as a reference for development, research and production quality.



SALT SPRAY TESTER - GENSALT

GenSalt is designed to test the surface of different materials for resistance to corrosion. The unit is commonly used to test coated materials of a metallic nature in a controlled corrosive environment. The test can be used on rust-proof painting, anodizing, electroplating and rust-proof of grease. The machine imitates expedited corrosion process via salt spraying on a given test sample to identify the corrosion (oxides) resistance. Test results are based on the longevity of time a material can resist visible corrosion on the test sample.



WYZENBEEK ABRASION TESTER - GENWYZE

The machine is designed to test the abrasion resistance of fabrics and metals. The abrasion of fabrics is tested when the specimen is pulled over the frame and rubbed against an abradant over a curved surface. The number of cycles, also known as double rubs, conducted on the specimen before the fabric shows visible wear is used to determine the rating of abrasion.



VERTICAL REBOUND RESILIENCE TESTER - GENREBOUND

GenRebound tests the resilience of rubber compounds. The machine must be adjusted in a horizontal position and the plunger raised at a specific height. The plunger is then released onto the specimen for a given number of impacts. The measurements are based on the 4th, 5th, and 6th impacts. The average of the three (3) measurements is then calculated for the test result. The machine is highly useful in production of compounds designed to absorb vibration or shock according to the ASTM standards.



TABER ABRASION TESTER - GENTABER

GenTaber used evaluate abrasion resistance. It can conduct tests on a wide range of materials such as: cloth, paper, paint, plywood, leather, tile, glass, rubber etc. It tests the specimen by rotating it while in contact with the grinding wheel and applying the required pressure. The loss of weight reflects on the change in weight of the specimen. The unit also has an intelligent power failure recovery function.

ELECTROMECHANICAL UNIVERSAL TESTING MACHINES

The NextGen testing frames incorporate precision electromechanical load frame equipment to meet all of your testing needs. Built according to industry standards, the NextGen EML line features our latest TestPilot software which comes pre-programmed with some of the latest testing methods. TestPilot is designed for users to reach the most accurate results while providing an easy to use interface for even the most inexperienced users.

The EML line is broken down into Class A, B, C and D covering a wide variety of laboratory configurations. NextGen EML units can come equipped in the following variations:

- 50N-5kN Single Column Bench Top Units for Low Capacity Applications
- 1kN-10kN Dual Column Bench Top Units for Medium Capacity Applications
- 20kN-50kN Dual Column Floor Standing Units for High Capacity Applications
- 50kN-600kN Dual Column Floor Standing Units with High Rigidity for the Highest of Capacity Applications

Repeatable results are constantly achieved through the NextGen EML series. From advanced Aerospace Industries to Educational facilities, NextGen EML Electromechanical Universal Testing Machines are found across the industry.



CLASS A

50N-5kN Single Column Electromechanical Bench Top Units for Low Capacity Applications



CLASS B

1kN-10kN Dual Column Electromechanical Bench Top Units for Medium Capacity Applications



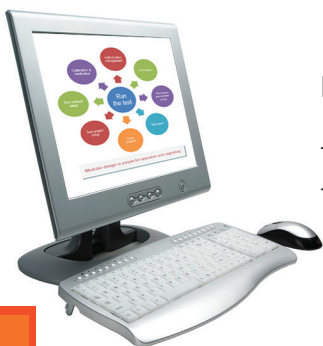
CLASS C

20kN-50kN Dual Column Electromechanical Floor Standing Units for High Capacity Applications.



CLASS D

50kN-600kN Dual Column Electromechanically Floor Standing Units with High Rigidity for the Highest of Capacity Applications.



NG - EML Test Pilot Series - TestPilot Software

TestPilot is designed to enhance your ability to perform accurate and repeatable mechanical testing of materials, components and finished goods across a full spectrum of applications.

SERVO-HYDRAULIC - STATIC - UNIVERSAL TESTING MACHINES

The NextGen testing frames provide a solution for high-capacity applications for a wide range of high-strength materials to meet all of your testing needs. Built according to industry standards, the NextGen SHM line features our latest TestPilot software which comes pre-programmed with some of the latest testing methods. TestPilot is designed for users to reach the most accurate results while providing an easy to use interface for even the most inexperienced users.

The SHM line is broken down into Class A, B, C, D and DP covering a wide variety of laboratory configurations. Each unit is built with different applications in mind for your benefit. Speak with a representative today to understand our complete line of servo hydraulic systems.

Repeatable results are constantly achieved through the NextGen SHM series combined with the TestPilot professional software. Suitable for high force applications, these units are offered with performance driven hydraulic packages with a complementary line of fixtures and accessories.



CLASS A

200kN-2000kN - Servo-Hydraulic Universal Testing Machine 4 or 6 column, servo-controlled hydraulic



CLASS B

300kN-3000kN - Servo-Hydraulic Universal Testing Machine 6 column, servo-controlled hydraulic



CLASS C

600kN-1000kN - Servo-Hydraulic Universal Testing Machine 6 column, servo-controlled hydraulic



CLASS D

600kN-2000kN - Servo-Hydraulic Universal Testing Machine 2/4 columns, servo-controlled hydraulic



CLASS DP

600kN-2000kN - Servo-Hydraulic Universal Testing Machine - Side Action Wedge Grip 2/4 columns, servo-controlled hydraulic



NG - EML Test Pilot Series - TestPilot Software

TestPilot is designed to enhance your ability to perform accurate and repeatable mechanical testing of materials, components and finished goods across a full spectrum of applications.



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