WorldofTest.com

QUALITEST™

ADVANCED RUBBER AND ELASTOMER TESTING TECHNOLOGIES

Qualitest

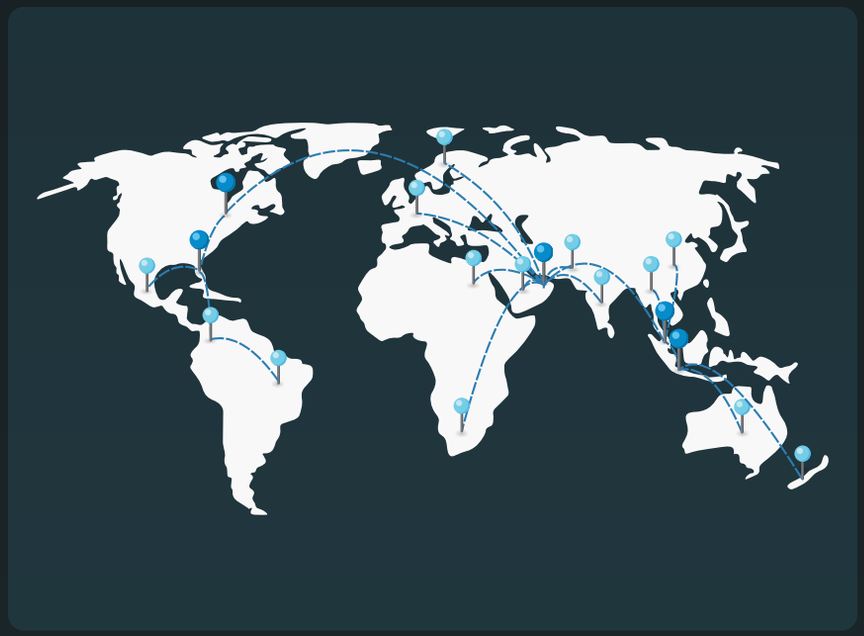
The Global Benchmark for Rubber & Elastomer Testing Technologies and Quality Control Instruments

Experience the Pinnacle of Precision, Quality, Cost-effectiveness in Materials Testing

For more than 25 years, Qualitest has been at the forefront of state-of-the-art materials testing and quality control instruments for the Rubber & Elastomer industries. Our advanced testing solutions, comprehensive product portfolio, and global footprint make us the preferred choice for leading organizations such as Apple, NASA, Intel, and Tesla.

All of our quality control equipment, testing instruments, and analytical devices exceed industry standards in every sector in which they're used—and come with the highest precision, proven reliability, and extended warranties.

With Qualitest, you can achieve the precision you need, reliably and cost-effectively.



25+ Years of Experience

31K+ Satisfied Customers

122+ Countries Globally

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Rubber and Elastomer Testing
Overview

In today's rapidly evolving industrial landscape, the quality and durability of materials are more critical than ever. Rubber and elastomer testing is essential across numerous sectors, from automotive and aerospace to medical devices, consumer goods, tire manufacturers, and O-ring companies. Ensuring these materials meet stringent performance and safety standards is paramount to maintaining product integrity, safety, and compliance.

Rubber and elastomers are subjected to a wide range of stresses and environmental conditions, necessitating rigorous testing to evaluate properties such as tensile strength, hardness, abrasion resistance, rebound resilience, and ozone resistance. Industry standards like ASTM, ISO, and DIN are widely recognized and adhered to in North America and global markets to ensure that products consistently meet high-quality benchmarks.

For over 25 years, Qualitest has been at the forefront of delivering advanced Rubber and Elastomer Testing Instruments to the North American rubber industry. Our comprehensive range of products includes Tensile Testers, Shore Durometer and IRHD Hardness Testers, Abrasion Testers, Rebound Resilience Testers, Ozone Chambers, MDR (Moving Die Rheometers), ODR (Oscillating Disc Rheometers), Densimeters, Clicker Presses and Specimen Dies, Brittleness Testers, and more. These instruments are designed to provide precise, reliable, and repeatable results, ensuring that your materials meet the demanding requirements of modern industry standards.

POPULAR TESTING METHODS AND THEIR BENEFITS FOR RUBBER TESTING LABS

Tensile Testing: Tensile testers measure the strength and elongation of rubber materials under tension. This test is crucial for evaluating how a material will perform when stretched, making it invaluable for applications like tire manufacturing, where durability and elasticity are key.

Abrasion Testing: Abrasion testers evaluate a material's resistance to wear and tear, providing insights into how long the material will last under repetitive friction or scraping. This is essential for products like conveyor belts, hoses, and tires, where surface wear can lead to premature failure.

Hardness Testing: Using Shore Durometers and IRHD Hardness Testers, labs can determine the hardness of rubber and elastomers, which is critical for applications where the material must resist indentation or deformation. This is especially important in O-ring manufacturing, where material hardness can directly impact sealing performance.

Rebound Resilience Testing: This method assesses the elasticity and energy return of rubber materials. High resilience is often desired in applications such as sports equipment and automotive parts, where materials must quickly return to their original shape after deformation.

Ozone Resistance Testing: Ozone chambers expose rubber materials to controlled ozone environments to evaluate their resistance to cracking and degradation. This is particularly important for outdoor applications where exposure to ozone can compromise material integrity over time.

Rheological Testing (MDR and ODR): Moving Die Rheometers (MDR) and Oscillating Disc Rheometers (ODR) measure the viscoelastic properties of rubber during curing. These tests are crucial for ensuring the correct processing and performance characteristics of rubber compounds, especially in the tire and automotive industries.

Electromechanical Universal Testing Machine - **QE-Series**

The QE-series Single-Column Electromechanical Universal Testing Machines offer up to 10kN capacity and come in four different heights. They support closed-loop testing for force, displacement, or deformation across various tests, including tension, compression, flexure, shear, tear, peel, and etc.

Standard with a German DOLI Controller, the QE-series can be equipped with grips, fixtures, compression frames, thermal cabinets, and extensometers. These machines are ideal for testing a wide range of materials, including rubber, plastics, foils, textiles, adhesives, paper, foods, foams, wires or other metallic or non-metallic specimens, and more, with robust load frames ensuring high axial and lateral stiffness.

Electro-Mechanical Single Column **QM-5 Series**

The QM-5 Series Electro-Mechanical Single Column Universal Testing Machine offers precise and reliable testing for materials such as rubber, plastic, metal, and composites under 5kN.

Equipped with a servo motor and sophisticated ball screw, it allows for easy calibration and displacement adjustments. It supports various tests, including tensile, compression, bending, and peeling, with user-friendly software that provides real-time data and comprehensive analysis.

Available in models like QM-5, QM-5-EXT, QM-5-II, and QM-5-II-EXT, it conforms to ASTM E4, ASTM D76, ISO 7500-1, and DIN 5122 standards.

Universal Testing Machine - Tensile/Compression Tester **QM-20 Series**

The QM-20 Series are designed for precise tensile and compression testing across various materials with a 20kN capacity.

It features a low-maintenance servo drive system, a precision jog wheel, and high-speed signal feedback for accurate and reliable results. Supports multiple tests, including tensile, compression, and bending, with user-friendly software for comprehensive data analysis.

Available models include QM-20-M1F, QM-20-M1F-L, QM-20-M2F, QM-20-M2F-L, QM-20-D2, and QM-20-D2-L.

Electro-Mechanical Dual Column **QM-50 Series**

The QM-50 Series Dual Column Universal Testing Machine is designed for precise tensile and compressive testing across various materials with a maximum capacity of 50kN. It features a large test space, extended stroke, and a maintenance-free servo drive system, ensuring high precision and low noise operation.

Equipped with user-friendly software compatible with Windows systems, the QM-50 supports tensile, compression, and bending tests, providing real-time data and comprehensive analysis.

The machine also offers optional standalone operation, external signal integration, and a speed range of 0.0002 to 600mm/min, making it versatile for various testing needs.

QM-L-EXT QM-Series
Long Extensometer

A long extensometer is an essential accessory for accurately measuring material elongation, especially for materials with elongation greater than 20%. It is typically used for testing dumbbell-shaped specimens made from rubber, plastic, PE, fabric, and webbing materials.

One of its key advantages is its seamless integration with Qualitest's universal testing machines, enabling automatic detection of test piece deformation during the testing process. This functionality enhances measurement precision and efficiency, ensuring reliable and consistent results.

QM-S-EXT QM-Series
Clip-On Extensometer

The Clip-On Extensometer is designed for testing rigid plastic, metal, and materials with elongation below 50%.

It features a precise displacement sensor and a compact structure, offering a resolution of up to 0.5µm. For tests with a maximum load under 20kN, the extensometer can remain attached to the specimen until fracture.

Customized specifications are available when gauge length or elongation exceeds standard parameters.

Grip and **Fixtures**

Qualitest offers an extensive range of advanced test fixtures and grips, accessories, and adapters for Universal Testing Machines and Tensile/Compression Testers.

These include Compression Platen, Bending Fixture, Shear Grip, Eccentric Roller, Pincer Grip, Screw Grip, Ribbon Grip, Wedge Grip, Button Head Grip, Thread Head Grip, Rope Grip, Pneumatic Grip, Hydraulic Grip, Peeling Grip, and various Adapters.

These components are essential for conducting a wide array of material tests, ensuring accurate and reliable results.

Digital Shore Durometer Hardness Tester - Drive Series

The Digital Shore Durometer – Drive Series provides high precision hardness testing for rubber and elastomer materials, with integrated temperature and humidity sensors.

Offering both manual and support-assisted operation, it functions as a stand-alone device or connects to HardnessCheck software for automatic data storage.

Available in Shore A, Shore D, Shore OO, and Shore AO scales, it comes with a 2-year warranty, ensuring extreme accuracy and comprehensive data analysis for both manual and desktop operation.

Automatic Shore IRHD Hardness Tester Durometer - DRIVE Series

The Automatic Shore IRHD Hardness Tester Durometer – DRIVE Series ensures precise polymer/elastomer hardness testing.

Designed for precision and user-friendly operation, this instrument features interchangeable measuring heads, motor-controlled displacement, and automatic specimen rotation. It offers compatibility with standard PCs, USB connectivity, and seamless integration for hassle-free use.

With support for multiple languages and reliable calibration services, this tester delivers accurate and efficient hardness testing for elastomer and polymer materials.

IRHD Micro Hardness Tester

The IRHD Micro Hardness Tester offers precise automatic measurement of micro IRHD hardness for small rubber components and O-rings.

Equipped with a laser centering device and motor-controlled sample holder, it ensures accurate positioning and measurement without operator intervention.

Ideal for quality control, it meets ASTM and ISO standards, providing fast, consistent results. This tester is perfect for testing small parts that are challenging to center manually.

Shore Durometer **HD-3000 Series**

The Shore Durometer HD-3000 Series offers versatile solutions for precision hardness measurements.

The HD-3000 model features a large, easy-to-read dial and conforms to ASTM D 2240, ISO 7619, ISO 868, and ISO 7619 standard, providing optimal accuracy and cost efficiency.

The HD-3000L model includes Slim Probe options for challenging contours and confined spaces. The OS-2 Operating Stand ensures consistent measurements by eliminating errors from load variations and alignment issues. The OS-2-OO model is specifically designed for Durometer OO requirements.

ABRASION TESTERS

DIN Abrasion Tester - **DIN Abrader**

The DIN Abrasion Tester provides comparative evaluation of abrasion resistance for vulcanized rubber, plastic, and various materials. It conforms to ASTM D5963, ISO 4649, and DIN 53516 standards. The tester measures volume loss in a cylindrical specimen using certified abrasive paper on a rotating drum. Features include user-friendly setup, quick weight adjustment, automatic detection of sample wear, and precise control of drum speed. Ideal for quality control, it ensures consistent and accurate results.

NBS Abrader - Abrasion Tester

The NBS Abrader tests the abrasion resistance of rubber or similar compounds used in footwear soles and heels, conforming to ASTM D1630 standards. It features a memory function for setting test numbers, maintaining records even during power failures. The tester can connect to a vacuum cleaner for easy cleanup. Widely used in the automotive and rubber industries, it ensures accurate and reliable quality control.

Akron Abrasion Tester

The Akron Abrasion Tester is designed to evaluate the abrasion resistance of vulcanized rubber and elastomers.

It uses a tilted grinding wheel to apply specific loads at an angle, abrading the sample for a set number of cycles. The abrasion resistance is measured by the resulting material loss. This tester ensures accurate simulation of real-world conditions and provides valuable insights for material development and product design improvement.

Rotary Taber-type Abrasion Tester

The Rotary Taber-type Abrasion Tester assesses the abrasion resistance of materials like cloth, paper, paints, plywood, leather, and rubber by measuring material loss under specified loads.

It conforms to ASTM D1044, ASTM D3884, DIN 52347, DIN 53109, and ISO 5470-1 standards. The machine features adjustable loads, 60±5 ~ 72±5 rpm, and an LCD counter.

Ideal for evaluating mechanical wear, it provides consistent and reliable results.

Rubber Hose Abrasion Tester

The Rubber Hose Abrasion Tester is designed to assess the resistance of the outer cover of rubber hoses to abrasion. Using a high-speed steel grinding jig, the device applies a consistent load to replicate wear conditions. It operates at a speed of 1.25 Hz (75 cycles per minute) with a reciprocating stroke of 100 mm. The mandrel can be adjusted to accommodate specimen sizes, and the built-in LCD counter tracks the testing process up to 99,999,999 cycles.

Trim Machine - QT-7012-T1

The QT-7012-T1 Trim Machine is specially designed for trimming abrasive wheels used in Taber Abrasion Resistance Testers.

It utilizes a diamond dressing stick to shape the abrasive wheels, ensuring that the Taber Tester operates efficiently with precise and optimized performance.

The diamond stick, delivers effective trimming, extending the service life of the abrasive wheels and ensuring consistent test results.

Rebound Resilience Tester **QualiRebound-GB**

The QualiRebound-GB evaluates the resilience of elastomers within a hardness range of 30 to 85 IRHD points conforming to ASTM D7121 and ISO 4662 standards.

It measures the energy returned to the instrument's hammer after impact, offering insights into the elastomer's dynamic properties.

The process determines the hammer's rebound angle and provides a direct reading of the resilience value.

Vertical Rebound Resilience Tester – Resiliometer **QualiRebound-V1**

The QualiRebound-V1 Resiliometer precisely measures the vertical rebound resilience of rubber materials, conforming to ASTM D2632 standards.

This tester drops a plunger from a specific height onto the material, recording the rebound height to determine the material's impact resilience.

Ideal for industries like automotive and construction, it ensures reliable quality control and material evaluation across various applications.

Rebound Resilience Elasticity Tester - **QualiRebound-RDA**

The QualiRebound-RDA Rebound Resilience Elasticity Tester is designed for precise measurement of elastomers' rebound resilience, using a pendulum method with pneumatic specimen clamping for accurate results.

Ideal for industries like rubber, plastics, footwear, automotive, and more, it ensures reliable material performance assessments.

The tester features a touchscreen interface, standardized test procedures, and easy operation, making it an efficient tool for quality assurance and product design improvement.

Rebound Resilience Elasticity Tester - **QualiRebound-A**

The Rebound Resilience Elasticity Tester - QualiRebound-A is designed to evaluate the impact resistance of elastic and flexible materials.

It provides essential insights into material differences and aging effects, aiding in quality research and purchasing decisions. The tester features a durable steel and aluminum impact head, an arc-shaped dial displaying results from 0% to 100%, and a versatile sample clamp for securing materials.

The adjustable shaft and knob allow precise testing, making the QualiRebound-A a reliable tool for assessing material resilience efficiently.

OZONE RESISTANCE TESTING

Ozone Tester – Ozone Chamber

The Ozone Tester – Ozone Chamber simulates and intensifies ozone conditions to assess rubber's resistance to ozone-induced aging. It quickly identifies rubber's susceptibility to cracking and the effectiveness of anti-ozone agents, improving product durability.

This chamber is versatile, ideal for testing vulcanized rubber, thermoplastic rubber, and cable insulation. It's widely used across industries like rubber and plastics, automotive, and manufacturing to ensure products meet quality standards by exposing materials to controlled ozone environments and evaluating their aging resistance.

Ozone Test Chamber 300L

The Ozone Test Chamber 300L is designed to assess the aging resistance of rubber products by simulating accelerated ozone exposure, allowing for a detailed comparison of rubber's susceptibility to ozone.

It features independent Aging Zones controlled by a dedicated system, electrical digital control for dynamic operation, and stable ozone concentration data using a photometer.

The chamber effectively regulates ozone concentration, temperature, and humidity to ensure precise testing. Its large capacity testing area with a modular design accommodates various sample sizes, while the leak-free, ozone-free exhaust system ensures safety and compliance with environmental regulations.

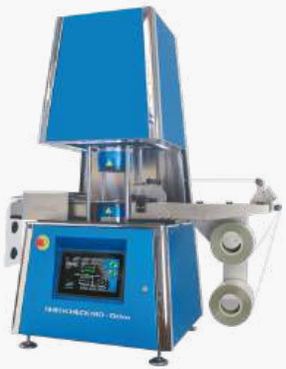
Ozone Test UV for Testing Rubber Deterioration

The Ozone Test Chamber – OzoneTest UV measures rubber's resistance to cracking under static or dynamic tensile strain, conforms to ASTM, ISO, DIN, and other international standards. It measures the resistance of rubber samples to cracking when subjected to static or dynamic tensile strain.

It offers automated control of ozone concentration, temperature, and airflow, with a UV-absorption ozone detector for accurate results. Ozone generation and elimination occur within a closed circuit, ensuring no need for exhaust evacuation.

The system supports customizable test conditions and automatic calibration, with data visualization and storage capabilities.

Moving Die Rheometer - **MDR Rheocheck MD Drive**



The MDR Moving Die Rheometer – Rheocheck MD Drive is used to determine the cure characteristics of rubber compounds according to ASTM D 5289 and ISO 6502-3 standards.

It measures vulcanization by assessing changes in the mechanical properties of the sample, applying repetitive strain to the test piece, and measuring the corresponding force.

Conducted at a specified temperature, the stiffness measurement is continuously recorded over time, providing detailed insights into the curing process.

Mooney Viscometer - **Mooneycheck Drive**

The Mooney Viscometer – Mooneycheck Drive is used for measuring Mooney viscosity, pre-curing (scorch), and stress relaxation characteristics of both uncompounded and compounded rubbers. This tester complies with ASTM D 1646, ISO 289-1, ISO 289-2, and ISO 289-3 standards, ensuring accurate and standardized results.

The testing protocol involves measuring the torque required to rotate a metal disc within a cylindrical chamber filled with rubber, operating at 2 rpm. The process is conducted under specific temperature and pressure conditions. The resistance displayed by the rubber is quantified as the Mooney viscosity, providing valuable data on the material's processing characteristics and quality.

Oscillating Disk Rheometer - ODR Rheocheck OD Drive

The ODR Oscillating Disk Rheometer – Rheocheck OD Drive assesses the cure characteristics of rubber compounds in compliance with ASTM D2084 and ISO 6502-2 standards.

It analyzes vulcanization by applying cyclic strain to a test piece and measuring the resulting force. The testing is conducted at a specified temperature, with stiffness measurements continuously recorded over time.

This rheometer provides detailed insights into the mechanical changes during the curing process.

Constant Volume **Specimen Die Cutter**

The Constant Volume Specimen Die Cutter is designed to create uniform-volume samples for MDR Rheometer, ODR Rheometer, and Mooney Viscometer tests using polymer or green rubber compounds.

Conforms to ASTM and ISO standards, this machine's solid build and dual-piston mechanism ensure consistent volume samples, even with tough, viscous compounds.

Using uniform-volume samples in rheology tests enhances test consistency, guarantees accurate chamber filling, and improves repeatability.

RHEOLOGICAL TESTING (MDR AND ODR)

Moving Die Rheometer - **MDR-3000 Series**

The MDR-3000 Series Moving Die Rheometer is designed to simultaneously determine viscosity, elasticity, hysteresis loss, and curing rate during the vulcanization process of rubber compounds.

This advanced rheometer incorporates state-of-the-art DSP technology with a new built-in DFT calculation formula, ensuring superior stability of test data.

he MDR-3000 Series includes: MDR-3000AU, MDR-3000FAU, MDR-3000U, and MDR-3000FU.

Rheo-SCM **Specimen Cutting Machine**

The Rheo-SCM Specimen Cutting Machine is designed for cutting specimens for the MDR-3000 Series Rheometer.

Driven by a cylinder, it is tailored for cutting rubber specimens used in curing tests. The machine features a solid frame, user-friendly operation, and high cutting capacity, making it an ideal companion for MDR-3000 Series Moving Die Rheometers.

The cutter size is Ø35mm or Ø50mm (optional), with a stroke of 45mm, and operates with an air source of 0.3~0.6 Mpa.

Mooney **Specimen Punch**

The Mooney Specimen Punch is designed for Mooney Viscometer specimens, specifically to drill holes in the center. It uses mechanical force for precise punching, standardizing sample preparation for Mooney tests.

The punch is tailored to Mooney specimens, ensuring accurate and reliable samples. It is easy to operate, featuring a simple design that facilitates quick and effective sample preparation.

Engineered for accuracy and consistency, the punch is durable and reliable, making it an efficient and precise solution for preparing samples for rubber-related Mooney testing.

Automatic TR Tester - Brittleness Point Tester

The Automatic TR Tester – Brittleness Point Tester is designed for low-temperature testing, crucial for assessing the crystallization effects and viscoelastic properties of rubber and similar materials.

It features a 5-liter stainless steel bath, heat exchangers for precise temperature control, a high-resolution temperature controller, and safety measures like an independent overheating controller. Cooling options include nitrogen tanks or refrigeration units, managed automatically based on test parameters.

Stress Relaxation Tester - Creep Tester

The Stress Relaxation Tester, or Creep Tester, measures material deformation over time under a continuous load at a constant temperature.

Essential for materials needing to maintain integrity under specific operational conditions, it features a touch interface, wide temperature range, precise force measurement, and diverse test modes. Various models accommodate different temperature ranges, including low-temperature options.

Brittleness Temperature Tester - **QT-BPT**

The QT-BPT determines the temperature at which rubber, plastics, and elastomers experience brittle failure under specific impact conditions. Samples are housed in a thermostatic bath, following ASTM D746, ISO 812, and other standards. Using dry ice and Nitrogen, the tester operates between −70°C to +20°C. Specimens are mounted on cantilever grips and immersed in the bath for 3 minutes (rubber) or 2.5 minutes (other materials). The specimen is struck by a hammer dart at 2 ± 0.2 m/s to identify the lowest temperature without brittle failure. The sample is then examined for cracks, crevices, and fragments.

Block Oven – Aging Oven

Block Oven – Aging Oven is designed for precise thermal regulation, ideal for aging tests on elastomeric materials in air and liquids. These tests simulate conditions up to 250°C, conforming to ASTM D 471, ISO 188, 1817, and 865 standards. The aging process evaluates changes in mechanical properties, hardness, and mass or volume before and after exposure. This tool is crucial for accelerated aging tests, offering precise measurements and comprehensive reporting for material property changes.

Brittleness Temperatur Tester - **QualiBrittle BPT-NDAH**

The QualiBrittle BPT-NDAH evaluates the low-temperature brittleness of plastics or vulcanized rubber under specific impact conditions. It's ideal for assessing materials' durability in cold environments. The process involves immersing specimens in a low-temperature bath before impact, offering insights into material performance in extreme conditions.This product meets standards like ASTM, ISO, and more. It's suitable for industries such as plastics, rubber, petrochemicals, and engineering, providing reliable simulations of material performance in cold settings.

Vertical **Freezing Tester**

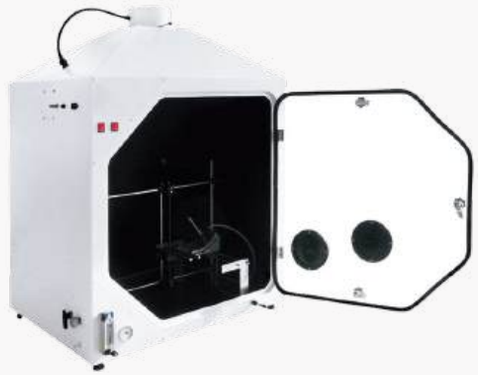
The Vertical Freezing Tester is engineered to assess the bending and flexing durability of materials like rubber, plastic, shoes, synthetic leather, and more under controlled cold environments. Its vertical design simplifies the installation of specimens, eliminating the need to crouch or bend, which streamlines the testing process for greater efficiency and convenience. This tester adheres to international standards, including ASTM D1790, ASTM D1593, JIS K6545, and GB/T 20991, making it a reliable choice for evaluating material performance in cold conditions.

Flammability Tester for Rubber and Plastics

The Flammability Tester for Rubber and Plastics is designed to assess the flame resistance of rubber and plastic materials as per UL 94 standards conforms to ASTM, ISO, and other international standards. It features a stainless steel cabinet with a tempered glass viewing window, a Bunsen burner, and a precise gas flow meter.

The tester supports versatile flame angle customization, ensuring accurate sample positioning and measurement. Equipped with advanced safety features, it effectively manages combustion fumes during testing. Additionally, it includes a gas flow adjustment system with manometers and fluxometers for precise gas flow control.

UL 94 Flammability Chamber



The UL 94 Flammability Chamber, also known as the Horizontal Vertical Flame Chamber, is specifically designed for testing the flammability of plastic materials used in electrical devices and appliances. It complies with several international standards, including ASTM, ISO, and IEC standards.

This compact chamber, with a total size of less than 1 cubic meter, is capable of performing all horizontal and vertical flame tests (50W/500W). It is equipped with a mass flow meter for precise methane flow control, motorized holder stand for vertically shrinking materials, and a user-friendly multi-channel timing device that is intuitive and easy to operate.

Horizontal Flammability Tester for Automotive Interior

The Horizontal Flammability Tester for Automotive Interior is designed to assess the flammability of materials used in automotive interior compartments following exposure to small flames.

Features Bunsen burner with a diameter of 9.5 mm and removable horizontal sample support with steel wires, enabling precise flame management.

It complies with various standards including ASTM FMVSS 302, ISO 3795, DIN 75200, FAR Part 25 F1, and others. The tester ensures that materials meet safety requirements for automotive interiors by evaluating their resistance to ignition and flame spread under controlled conditions.

Manual Clicker Press

The Manual Clicker Press is a versatile tool ideal for stand-alone cutting tasks and complements hydraulic presses for smaller operations. With its single lever rotation and compressing action, it offers surprisingly fast operation, allowing you to cut materials at a fraction of the cost of a hydraulic press. This press is perfect for cutting rubber specimens, leather, laboratory samples, belts, embroidery badges, rubber stamps, surfboard fins, key fobs, gaskets, rubber washers, and much more.

C-Frame Type Clicker Presses – QC700 and QC1500 Series Pneumatic Air Operated

The QC700 and QC1500 C-Frame type Pneumatic Clicker Presses, with capacities of 7 and 15 tons, are ideal for die-cutting applications. These air-operated machines are designed for cutting rubber, elastomers, leather, fabric, gasket materials, plastic, textiles, and more using Steel Rule Dies, Forged Dies, or Clicker Dies.

Engineered for precision, these presses offer robust performance for a variety of industrial applications.

Basic Sample Clicker Press

The Basic Sample Clicker Press is designed for cutting samples made of rubber, leather, and paper according to ASTM, ISO, DIN, and JIS standards.

It offers up to 2 tons of cutting pressure and features a compact size of 30x65x67 cm, making it a practical choice for various applications.

Weighing 47 kg, this manual press is easy to operate and ideal for laboratories and small-scale production environments.

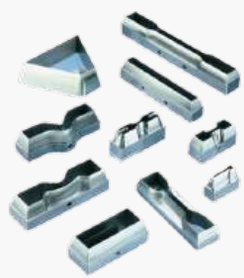
Hydraulic Swing Arm Clicker Presses

The QTSE Series Hydraulic Swing Arm Clicker Presses are widely used die-cutting machines, recognized for their reliability, productivity, and energy efficiency. These presses are ideal for cutting small dies with excellent visibility and ease of use. The swing beam is easily adjustable, allowing operators to quickly collect and reposition materials for the next cut. Commonly used for leather, footwear, gaskets, foam, rubber, plastics, and textiles, the QTSE Series offers advanced controls for optimal performance.

Auto-Pneumatic Clicker Press

The Auto-Pneumatic Clicker Press is an efficient and cost-effective solution for cutting rubber, plastics, and leather specimens in testing laboratories. Requiring only 5 bars of air pressure (73 psi) to operate, this press is available in 3 or 5-ton capacities, suitable for cutting samples up to 10 or 15 mm thick. With a simple operation, safety features, and an excellent quality-performance/price ratio, this compact press is widely used in the rubber and plastics industry.

Specimen Cutting Dies - Cutters



Fully Certified Sample Preparation and Specimen Cutting Dies are available per ASTM, JIS, DIN, and ISO standards, usually in stock.

Our high-quality specimen cutting dies and sample cutters are meticulously crafted to meet ASTM, DIN, ISO, and JIS standards, ensuring precise preparation of your test specimens. Each cutting die is provided in a padded carrying case and comes with full certification. We also offer a re-sharpening service to maintain the highest production standards.

DENSIMETER - SPECIFIC GRAVITY TESTER

Densimeter **EW-300SG**

The EW-300SG Densimeter provides fast and accurate interval testing on production lines, measuring density and volume in just 10 seconds. It offers a resolution of 0.01g/cm3 and can handle samples up to 300g.

Featuring a durable, chemical-resistant vessel, the densimeter ensures smooth operation and precise results. It also includes comparator mode for data analysis and an RS232 interface for easy PC connectivity, making it a reliable tool for production testing.

Densimeter **MD-300S**

The MD-300S Densimeter is an upgraded model, providing precise density measurement for both solid and liquid samples with a resolution of 0.001g/cm3. This compact and efficient device delivers accurate results within 10 seconds.

It features a chemical-resistant vessel and offers smooth operation. Equipped with comparative mode for data analysis and an RS232 interface for PC connectivity, it's a reliable choice for advanced density testing in various applications. The optional liquid mode kit enables accurate liquid density measurements.

Densimeter **MDS-300**

The MDS-300 Densimeter provides precise density measurements for solids, liquids, and powders with a resolution of 0.001g/cm³ and a reference value of 0.0001g/cm³. Its newly designed sensor and auto-weighing feature enhance accuracy and efficiency. The solid mode allows high-precision measurement and supports various sample types, including floating objects and pellets. The device also offers semi-automatic functionality for improved workflow. With the optional kit, the MDS-300 can measure liquid density with equal precision.

Densimeter **MDS-3000**

The MDS-3000 Densimeter can measure up to 3kg of material, offering a wide capacity that allows for whole-sample density measurement without cutting. Its sensor and water tank size are customizable for different sample sizes, and it features an easy-to-use auto-weighing function. In solid mode, larger samples can be measured with a resolution of 0.01g/cm³ and a reference value of 0.001g/cm³. It also includes specialized modes for measuring powder density and floating objects. The optional liquid mode adds the capability to measure compensated liquid density with adjustable measuring times.

Electronic Densimeter **SID 220W**

The SID-220W is a high-precision densimeter with a 0.1mg resolution for accurate measurements of solid, liquid, and powder densities. It features rapid measuring times (3 to 30 seconds), auto-enter mode, and real-time results.

Equipped with a liquid measurement mode, customizable sensor kits, and data output interfaces, it is ideal for research and industrial applications. The optional Liquid Density Kit further expands its capabilities, making it a versatile tool for achieving precise density measurements.

DeMattia Fatigue Tester

The DeMattia Fatigue Tester offers advanced control and regulation capabilities to tailor test cycles according to specific sample types and testing methods.

Users can adjust the frequency between 60 to 300 revolutions per minute (rpm) and set the stroke length from 0 to 60 millimeters. The tester also allows defining the grip distance, which can be extended up to 100 mm, making it suitable for different specimen sizes. Additionally, users can program the number of test cycles before the machine automatically stops, ensuring accurate fatigue testing. The instrument enhances efficiency by allowing up to 16 samples to be tested concurrently, making it an optimal solution for laboratories focused on improving productivity.

DeMattia Fatigue Tester - Plus

The DeMattia Fatigue Tester - Plus is engineered to comply with international fatigue standards for evaluating the endurance of vulcanized rubber subjected to repeated deformations. This tester is capable of performing two essential tests: flex cracking and crack growth tests, as well as tension fatigue tests.

This instrument allows users to easily adjust the test frequency, from 60 to 300 rpm, set the stroke from 0 to 60 mm, and adjust the grip separation distance up to 100 mm. It also provides the ability to preset the number of cycles, with a maximum of up to 1,000,000 cycles, enabling automatic cessation of the test.

DeMattia Fatigue Tester - AI Camera

The DeMattia Fatigue Tester - AI Camera takes the capabilities of the Plus model to the next level by incorporating advanced video monitoring and environmental control. It features six high-resolution video cameras (600x450 pixels), eto monitor specimens in real-time, with LED lighting ensuring consistent image quality.
Additionally, the AI Camera model features an environmental chamber that allows for precise temperature adjustments between -40°C and 200°C, allowing inspections without opening the chamber. These enhancements make the AI Camera version ideal for users who require higher levels of accuracy, control, and real-time data capture in their fatigue testing process.

Flexometer

Flexometer, also commonly known as Goodrich Flexometer, provides accurate measurement of heat build-up and conducting blow-out tests, and thermal set in materials. It conducts both force- and elongation-controlled tests, enhancing thermal dissipation and durability of tire components and dampers.

Conforms to ASTM D623 and ISO 4666, this instrument's equipped with insulated compression sample holders and a contact thermocouple, it records surface temperatures during heat build-up tests. It applies a predetermined compressive load to specimens, allowing measurement of temperature rise, compression deformation, compression set, and fatigue life.

Karl Fischer **Titrators & Moisture Analyzers**

Utilize the Karl Fischer volumetric method to efficiently determine moisture content in various samples, These instruments feature automatic reagent balance, high precision platinum electrodes, and touch functionality, ensuring reliable and accurate measurements with ease. It also feature anti-corrosion designs and precise metering pumps for enhanced durability and performance.

Each product is designed to meet the highest standards of reliability and is trusted for use in diverse applications across scientific research and industrial sectors. Available models include: QKF-A9, QKF-A9-V2, QKF-A9-V2, QKF-A Series, QKF-C9, QKF-C30, QualiKFT-I, and QualiKFT-Auto.

Halogen Moisture Analyzers

The Halogen Moisture Analyzers offer reliable and accurate moisture measurements for various materials, including granules, powders, flakes, and non-volatile liquids.

Equipped with halogen heating technology, it ensures rapid and uniform heating for efficient moisture content analysis. Its user-friendly design simplifies operation and maintenance, making it an ideal tool for industries requiring precise moisture control.

These analyzer support consistent and high-quality measurements, helping users make informed decisions and maintain quality standards across applications.

Available models include: QMA-E Series, QMA-EA Series, and QMA-S Series.

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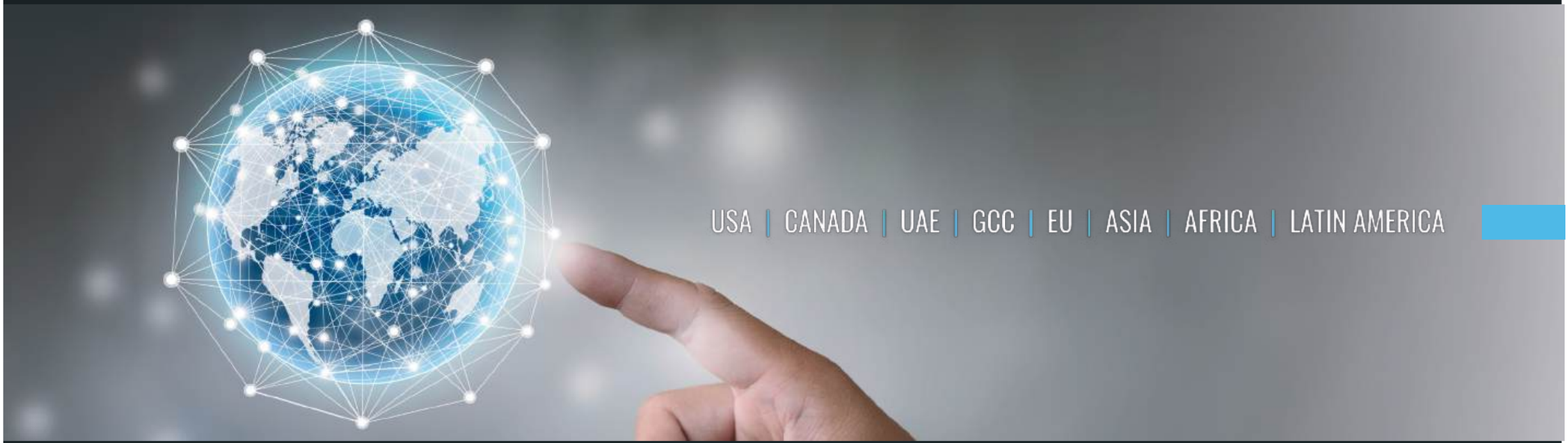

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