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QUALITY GAUGES FOR CHECKING THE HARDNESS OF NON-METALLICS



Rex Gauge Company has been specializing in quality durometers for over sixty years. We pride ourselves in the fact that Rex Durometers are easy and convenient to use, as well as durable and extremely accurate. Our personnel are truly professionals in their trade, as is evident in the fine workmanship and quality that go into each gauge—from the first calibration to the final approval before delivery to the customer.

Due to increased worldwide sales, Rex Gauge Co. has recently expanded its production capacity to a 56,000 square foot, 7 acre facility. With our new building, Rex will offer more quality products and even better service.

Even though we're bigger, we still offer the same old-fashioned, same day service which our customers have appreciated for over sixty years. Plus, our expertise allows us to customize any Rex instrument to meet your company's specific needs. For information or a quotation, please call your representative today at **1-800-927-3982**.

All Rex components are manufactured in the USA.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Otto J. Schultes".

Otto J. Schultes
President

The Original Vest-Pocket Style Durometer

Size: .5" x 4.5"H Net Weight: 1.5 oz.

Mass produced since the 1930's and patented by Rex in 1947, the Model 1500 is still considered to be the best all around instrument of its kind. While other manufacturers have attempted to copy the Rex design, none can offer the quality of a Rex 1500.

MODEL 1500

With its light weight and small size, it is a convenient gauge to carry around the shop. (Should it be dropped, even if not in its' leather carrying case, it will almost never be damaged or become inoperative). Because the gauge is so durable, the Model 1500 comes with a lifetime guarantee.

The key to the gauge's durability is its' sliding vernier scale—there are no cams, gears, or levers to wear out. This vernier scale holds the maximum reading, which is especially useful for testing hard to reach areas.

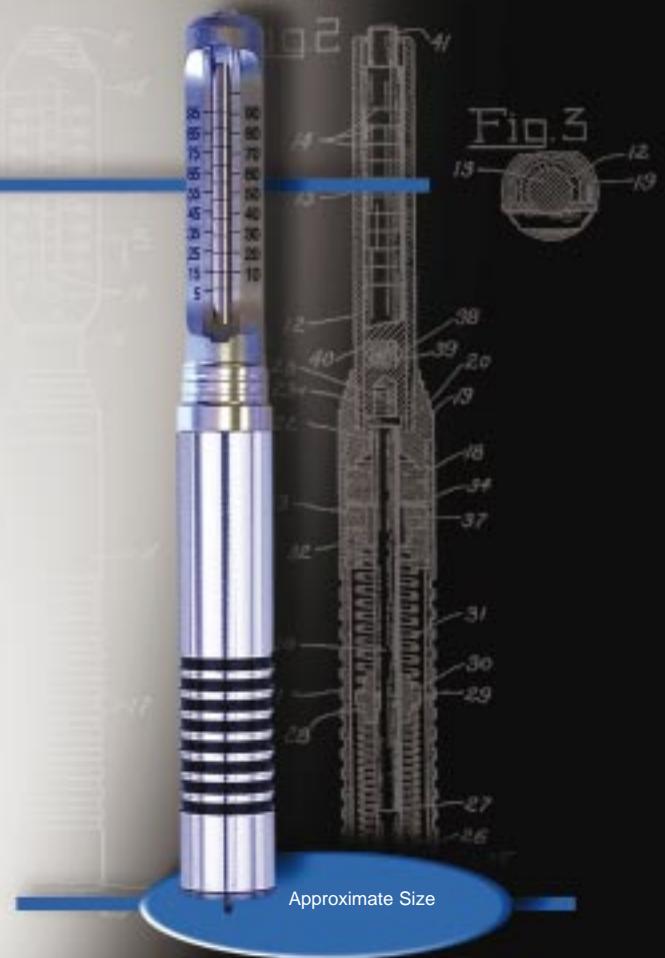
The vernier scale is marked in increments of 5 points.

Features:

- Ultra lightweight
- Excellent for hard to reach places
- Virtually unbreakable
- Precision Construction
- Holds reading until reset
- Furnished with a leather pouch
- NIST Traceable

UNITED STATES PATENT OFFICE

2,421,449



Available in A, D, B, C, DO, O

Mini-Dial Durometer

Size: 1.675" x 5.6"H

Net Weight: 3.85 oz.

MODEL H-1000

The Rex H-1000 Mini-Dial Durometer is both compact and easy to use. Its' small dial face and included leather clip-on carrying case make it easy for an inspector to carry the gauge for work around the shop, or out in the field. The H-1000 durometer holds the maximum reading, until reset by pressing the button at the top of the gauge. The max-hold feature and small dial size make the H-1000 a good choice for hard to reach places, or for out of sight testing.

Features:

- Small face (1.675" Dia.)
- Easily fits into your pocket or clipped on belt
- Increments of 1 from 0-100
- One year warranty
- Furnished with a leather carrying case
- Conforms to ASTM D-2240 and NIST Traceable



Approximate Size

Available in A, D, B, C, DO, O

Standard Dial Durometer

Size: 2.25" x 6.125"H
Net Weight: 6 oz.

MODEL 1600

The Model 1600 Durometer is Rex's standard model for good reason. The gauge features a full-sized dial face for readability to within 1/2 point. The 1600 offers the maximum accuracy available in a dial model gauge at a minimum cost.

Features:

- Large dial
- Full 360° sweep
- Superior 1/2 point accuracy
- Custom made carrying case
- One year warranty
- Conforms to ASTM D-2240 and NIST Traceable (except where noted)



Available in
A, D, B, C, DO, O, OO, OOO, M
(OOO not ASTM)

Max-Hand Durometer

Size: 2.25" x 6.125"H
Net Weight: 6 oz.

MODEL 1700

Introduced in 1965, the Model 1700 was designed to enable the user to observe and measure the “creep” present in a specimen.

Creep refers to the tendency of the durometer reading to decrease over a period of seconds after the initial reading is taken. This occurs because the springloaded durometer indenter may continue to penetrate the specimen as the gauge is held against the surface (depending on the type of material being tested). For example, in a specimen where creep is present, the initial reading may be 35.0 durometer points, while the reading after three seconds may be 33.5 durometer points.

The Model 1700 features a max-hand, and an active-hand, so that creep may be observed. The max-hand holds the maximum reading, while the active hand can be observed creeping down the scale. The 1700 is equipped with a max-hand reset button on the top left of the gauge.

Features:

- Holds reading until reset
- Reads maximum and creep
- Unique foolproof reset
- Superior 1/2 point accuracy
- Custom made carrying case
- One year warranty
- Conforms to ASTM D-2240 and NIST Traceable



Approximate Size

Available in A, D, B, C, DO, O

Max-Hand Durometer

Size: 2.25" x 6.125"H
Net Weight: 6 oz.

MODEL 2000

The Max-Hand 2000 durometer is Rex Gauge Company's latest innovation for the testing of specimens with creep*. The Max-Hand 2000 has a max-hand and an active-hand for observing the creep characteristics of a specimen. What makes the Model 2000 unique is the magnetic-drag, maximum reset mechanism. The user simply rotates the reset knob on the front of the gauge to clear the previous reading. The simplicity of the reset mechanism ensures a lifetime of use, and makes the Max-Hand 2000 the most affordable durometer for testing specimens with creep.

*For an explanation of "creep", see the Model 1700 on page 6.

Features:

- Reads maximum and creep
- Cost effective, hand operated
- Holds maximum reading until reset
- Custom made carrying case
- Superior 1/2 point accuracy
- One year warranty
- Conforms to ASTM D-2240 and NIST Traceable



Available in A, D, B, C, DO, O

Digital Durometer

Size: 2.25" x 6.125"H
Net Weight: 7.15 oz.

MODEL DD-3

The Rex DD-3 Digital Durometer is an excellent instrument for data collection or repetitive quality control testing. With its impressive list of features, the DD-3 is truly state-of-the-art, and is the ideal durometer for lab use. Some of the features are: a large direct drive LCD display, RS232 data ports for computer compatibility, tolerancing, a locking feature to prevent accidental erasure of tolerances, automatic shutoff, low battery warning, and new accessories such as MTI and SPC type printers, audio attachments and software.

Features:

- High and low buttons for setting tolerance limits
- Solid state circuitry with LCD display
- Comes with batteries and AC adapter
- One year warranty
- Response speed is immediate
- Holds reading until reset
- 0.1 Resolution
- Dial rotates up to 270°
- Custom made carrying case
- Certification included
- Accessories also available: Printer, Audio Attachment and Lab Software
- Conforms to ASTM D-2240 and NIST Traceable (except where noted)



Available in A, D, B, C,
DO, O, OO, OOO, M
(OOO not ASTM)

Multi-Scale Durometer

Size: 2.25" x 6.125"H

Net Weight: 6.0 oz. with one barrel adapter

MODEL MS-1

For the technician that must perform hardness tests on various types of non-metallic materials, Rex Gauge Company provides the Multi-Scale durometer test kit.

The Multi-Scale base kit consists of a Rex A scale durometer, and your choice of one or more color-coded barrel adapters for B, C, D, DO, O, or OO scales (see the quick reference guide on page 18 for applications). Changing scales is accomplished by unscrewing one barrel and replacing it with another—no supplementary calibration or adjustments are necessary. A test block, calibrated to the selected scale, is also included. The block allows the user to perform quick, functional checks on the instrument. The indicator and barrels are made in the USA, and are calibrated to the ASTM D-2240 standard for durometer hardness testers.



Multi-Scale
MS-1 DUROMETER TEST KIT

Elastomer Test Specimen Kits

TEST BLOCK KITS

These kits will prove to be invaluable in helping to maintain durometer read-out accuracy for the scientific, manufacturing, and research and development fields. These kits act as a reference check for the operational status of the gauge, and allows the user to develop the proper feel for the use of the gauge (many users exert too much force on the gauge, thus obtaining erroneous readings).

Instant identification of a particular hardness range is fast and easy due to our color identification system.

While these test blocks are a convenient form of comparative verification, they are not intended to be used for the purpose of durometer calibration. Rather, they are a form of "quick reference" to the operational status of the durometer being used.

A large variation would indicate the need for recalibration of the durometer being utilized. This should be done in accordance with the methods indicated in ASTM D-2240.

Test Block Kits and Single Test Blocks are available in A, D, B, C, DO, O, OO, OOO, and M.

The material (rubber) from which the test blocks are made is fairly stable; however, it is strongly recommended that the calibration of the test blocks be verified annually.

An open black box containing a white instruction card and seven color-coded test blocks (red, orange, yellow, green, blue, purple, black) arranged in a row.

Model TBK-A

An open black box containing a white instruction card and seven color-coded test blocks (red, orange, yellow, green, blue, purple, black) arranged in a row.

Model TBK-00

An open black box containing a white instruction card and three color-coded test blocks (blue, grey, black) arranged in a row.

Model TBK-D

Rex Durometer Calibrator

Size: 15.5" x 7.5" x 11.5"H

Net Weight: 30.5 pounds

CALIBRATOR

The Rex calibrator was designed to be simple to use. Unlike a conventional scale, it doesn't require the fabrication of a fixture to hold the gauge, and the user doesn't have to perform any calculations to determine if the gauge is in calibration. With the RDC-1, the user simply secures the gauge in the clamp and slides the weight to the appropriate point on the scale. If the gauge reads within ± 1 of the point indicated on the scale, it's in calibration.



The RDC-1 offers quality unparalleled by any other. With its heavy steel base, stainless steel column, and billet aluminum components, the RDC-1 is the sturdiest calibrator made. All components are precision CNC machined to exacting tolerances, then plated or painted to insure long life. The RDC-1 is delivered fully calibrated, with documentation traceable to NIST. It also comes with instructions and technical notes covering specifics about durometer calibration.



Features:

- The instrument is portable and can be used on any convenient workbench or desk
- Accurately control, internally, the calibration requirements necessary for product consistency
- Direct reading for easy calibration
- Allows for periodic checks on durometers over the entire scale
- Made and assembled in the USA
- Conforms to ASTM D-2240 and NIST Traceable

Rex Gauge Company's RDC-1 durometer calibrator was designed to help durometer users obtain in-house calibration ability. The calibrator allows the user to calibrate gauges in the A, B, C, D, DO, O scales, and is furnished with an adapter which allows the user to check the calibration of competitive gauges.

SPECIALTY GAUGES



Model 2100

Designed specifically for checking tires in racing applications, the 2100 is essentially a type A gauge with a few added features. The gauge is lighter than the standard model 1600, is furnished with a clip-on sheath, has a special dial face and hand, and is black anodized.



Right Angle Durometer

The right angle durometer allows the user to check linings or installed gaskets inside tanks or other cylinders. The gauge can perform tests in a confined space where a standard gauge could not be positioned properly.



**Model 1600-SP
Type E**

SP Gauges are manufactured to conform with a specified standard and durometer type (ASTM, ISO, DIN, JIS, or Asker Type). SP gauges are available in analog and digital models.



**Model 1600-SP
Type CF**

A portable and affordable alternative to the larger stands, the OS-5 can be used in conjunction with a Rex type D durometer to check the hardness of bowling balls. The stand holds the gauge perpendicular to the ball during testing, thus eliminating the human error sometimes associated with checking hard, curved surfaces.



**OS-5 Bowling
Mini-Stand**

CUSTOM DESIGNS



Slim Probe A



Chisel Shaped Angled Foot

- We have the capacity to offer custom built durometers for specific needs or applications.
- We offer Custom Gauges and Fixturing for unusual materials or working conditions.
- Because of our “Modular Concept” we can make basic design changes to our probes, or special indentors to customize our instruments.
- If you can furnish us with a sample of your material, we can furnish you with a gauge to check almost any non-metallic material.

Slim Probe “A”: Narrow Foot

For checking narrow or irregular shapes. Foot size is .110 x.50". Can be modified to fit your particular needs.

Chisel Shaped, Angled Foot

For hard to reach or narrow areas.

Slim Probe “B”: 3/16" Diameter Foot

A thinner foot for reaching hard to get places. Can be modified to fit your needs.

ASTM OO

For checking human skin, foam, or soft rubber. The gauge is pictured with the OO/OOO constant load weight (top), and the extended foot (extended foot can be attached to any type or model Rex durometer).

Constant Load Weight

This constant load weight can be attached to any model Rex durometer with an 822g springload (types A, B, and O). Because it provides the correct testing pressure on the gauge and acts as an extended foot, the constant load weight eliminates human error.

* Not all custom designed gauges will conform to ASTM specifications.



Slim Probe B



ASTM 00



Constant Load Weight

Increased Accuracy and Productivity

OPERATING STANDS

The OS-1 Operating Stand

The OS-1 provides a convenient and accurate way to perform repeated hardness tests. The stand provides the correct testing pressure as noted in ASTM D-2240, thus eliminating human error. The OS-1 may be used with durometer types A, D, B, C, DO, O, OO, and OOO.



Used for Types A, D, B, C, DO, O, OO, OOO



Used for Types A, B, O



Used for Types A, B, O

The OS-2 and OS-4 Operating Stands

Smaller versions of the OS-1 stand, the OS-2 and OS-4 provide a convenient and accurate way to perform repeated hardness tests. All stands provide the correct testing pressure as noted in ASTM D-2240, thus eliminating human error. The OS-2 can be used for type A, B, and O, while the OS-4 is for use with types OO and OOO.

The OS-2H, OS-3 and OS-4H Operating Stands

The OS-2H, OS-3 and OS-4H offer all the features of the standard Rex OS-2 and OS-4 stands, plus a dampening feature. The dampener lowers the durometer at the same rate for each test, resulting in superior repeatability for all durometer tests (especially in the sensitive OO and M durometer types). The OS-2H can be used for durometer types A, B, and O. The OS-3 is used only for type M durometers, and is ideal for o-ring testing (o-ring fixtures are available). The OS-4H is for use with the OO, OOO, and M durometer types.



Model OS-3

Used for Type M only



Model OS-4

Used for Types OO, OOO



Model OS-4H

Used for Types OO, OOO, M



O-Ring Fixture Set also available.



















Quick Reference Guide

QUICK REFERENCE GUIDE

Rex Gauge company has been specializing in quality durometers for over 60 years. Rex Durometers are known World-Wide for their quality, dependability, and accuracy. Except where noted, all gauges comply with ASTM D-2240. Most gauges are available in A, D, B, C, DO, O, OO, OOO and M. All are in stock and ready for immediate delivery. Custom designed hardness/softness gauges and operating stands, along with many accessories, are available.

GUARANTEE

All Rex Durometers and accessories are guaranteed for a period of one (1) year against defective workmanship and/or material. This guarantee does not apply to products that are mishandled, misused, etched, stamped, or otherwise marked or damaged. The instrument will be repaired or replaced (at our option) without charge by Rex Gauge Company.

DUROMETER TYPES	INDENTOR SHAPE	MAIN SPRING
 TYPE A (ASTM D2240) Soft rubber, plastics and elastomers, printer's rolls.	 Flat Cone Point 35° Included Angle	822 GM 1.81 LB.
 TYPE D (ASTM D2240) Hard rubber and plastics such as thermo plastics, flooring and bowling balls.	 Sharp Cone Point 30° Included Angle	4536 GM 10.0 LB.
 TYPE B (ASTM D2240) Harder elastomers and plastics. Paper and fibrous materials. Use above 93 Duro A.	 Sharp Cone Point 30° Included Angle	822 GM 1.81 LB.
 TYPE C (ASTM D2240) Medium hard elastomers and plastics. Also useful to avoid surface marks.	 Flat Cone Point 35° Included Angle	4536 GM 10.0 LB.
 TYPE DO (ASTM D2240) Dense granular material, textile windings.	 3/32" Spherical	4536 GM 10.0 LB.
 TYPE O (ASTM D2240) Very soft elastomers, textile windings, soft granular materials. Use below 20 Duro A.	 3/32" Spherical	822 GM 1.81 LB.
 TYPE OO (ASTM D2240) Light foams, sponge rubber gels, animal tissue.	 3/32" Spherical	113 GM
 TYPE OOO (ASTM PENDING) Ultra soft gels and sponge rubber.	 1/2" Spherical	113 GM
 TYPE M (ASTM D2240) For checking specimens as thin as .050"	 Sharp Cone Point 30° Included Angle	

Some of the Industries Served:

Aerospace

Automotive

Bowling

Construction Equipment

Container Industry

Electronics

Hydraulics

Locomotive

Machine Tool

Medical

Mold Makers (Plastic & Die Cast)

Nuclear Energy

Office Equipment

Printing

Power Tool

Tool & Die

Transportation

U.S. Government

QUALITY

SERVICE

PRECISION

CRAFTSMANSHIP

RELIABILITY

PERFORMANCE

SPEED

ACCURACY



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Credit Terms Available
We accept Major Credit Cards