

PRODUCT CATALOG

2025



# Z-ROK<sup>®</sup>

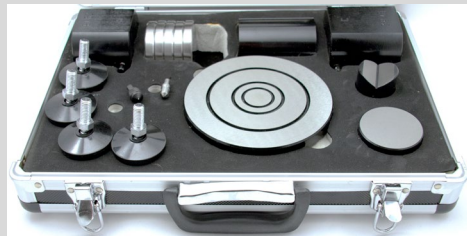
Portable Hardness Testers  
Ultrasonic Thickness Gauges  
Coating Thickness Gauges  
Digital Durometers  
Surface Roughness Testers  
ROCKWELL HARDNESS TESTER

# Rockwell Hardness Tester

## Model No. ZRK-3



**Resolution: 0.5HR**



### ZRK-3 includes the following:

- 3pc Rockwell C Test Blocks
- 1pc Rockwell B Test Block
- 1pc Diamond Indenter
- 1pc 1/16" Carbide Ball Indenter
- 1pc Large Flat Anvil
- 1pc Small Flat Anvil
- 1pc V-Anvil
- 1 set of Leveling feet

### Specifications:

- Minor Load: 10kg
  - Major Load: 60kg, 100kg, 150kg
  - Test Force Application: Dead Weight
  - Test Force Control: Hydraulic Dashpot
  - Display/Resolution: Analog / 0.5HR
  - Vertical Capacity: 6.8"
  - Throat Depth: 6.5"
  - Machine Dimensions: (L)20.4" x (W)9.64" x (H)27.5"  
520x245x700mm
  - Shipping Weight: 220lbs
- Capable of testing in ALL regular Rockwell scales**

The Z-Rok Rockwell Hardness Tester accurately measures hardness of materials in Rockwell hardness A, B, and C scales. Heat-treated steels are tested using a 120° diamond indenter in the C-scale (HRC 20-70). Soft materials are tested using a 1/16" carbide ball indenter in the B-scale (HRB 25-100). Very hard materials are tested using a 120° diamond indenter in the A-scale (HRA 20-88). Tester features a weight adjustment handle for quick and easy adjustments between different scales. Release and reset levers are provided for quick and accurate testing. Hardness Tester includes standard, large and V-shaped anvils for holding small, large and round or curved materials.

**Follows guidelines of ASTM E18**

# Z-ROK®

## Portable Hardness Tester Model No. ZRX-2



### Standard accessories included



- Base instrument
- Impact device D
- Calibrated test block
- Data output software
- USB cable
- Custom carry case
- Cleaning brush
- Operation manual

### Optional accessories

Impact devices:  
DC, D-15, DL, G, C

Special support rings

NIST certified test blocks

### Specifications:

- Repeatability accuracy: +/- 4L units) L=Leeb
  - Measuring range: 200-960 HL
  - Scales: HRC, HRB, HB, HV
  - Materials: steel & cast steel, alloy tool steel, stainless steel, grey cast iron, spheroidal iron, cast aluminum, brass, bronze, wrought copper alloy.
  - Battery type: AA alkaline (2)
  - Operating temperature: 5-104 degrees F
  - Dimensions: 108 x 62 x 25mm
  - Weight: 230 grams
- DESIGNED TO TEST VERY LARGE HARD METAL PARTS.**  
*Example: Tool steel should be at least 1" thick solid material*

*Features blazing fast test results, large memory, USB data output, calibration block, rugged carry case, manual and calibration certificate*

State of the art, digital hardness tester is designed to test the hardness of large hard metal parts.

Loaded with useful functions only found on high priced models the ZRX-2 portable hardness tester is clearly setting a new industry standard by being the most accurate, economically priced portable hardness tester on the market today.

Fast test speeds coupled with memory and output, this unit is a hands down winner whether you are out in the field or in the QC shop.

The ZRX-2 portable hardness tester can perform tests that easily convert to the most popular hardness scales, including Rockwell, Brinell, Vickers, Shore, etc.

**Meets ASTM A956 specifications.**



# Ultrasonic Thickness Gauge Model No. ZTG-3



Designed to measure the thickness of metallic and non-metallic materials such as steel, aluminum, titanium, plastics, ceramics, glass, and any other good ultrasonic wave conductor as long as it has parallel top and bottom surfaces



Our state-of-the-art, digital ultrasonic thickness gauge is packed with features typically found on high-end models only

<b>Display Type</b>	4.5 digit LCD w/back light	<b>Memory</b>	20 groups (100 files/group)
<b>Minimum Display Unit</b>	0.001"/0.01mm (selectable)	<b>Output</b>	n/a
<b>Measuring Range</b>	0.03"-12.0" (Steel)	<b>Power Supply</b>	2-AA Alkaline Batteries
<b>Accuracy</b>	+/- (0.5% thickness + .001"	<b>Operating Temp</b>	32-122°F
<b>Sound Velocity Range</b>	3280-32805ft/s (1000-9999m/s)	<b>Battery Life</b>	Approx 100 hours (backlight off)
<b>Upper/Lower Limit Alarm</b>	No	<b>Dimensions</b>	5.90x2.91x1.30" (150x74x33mm)
<b>Scan Feature</b>	Yes. 16 measurements/sec.	<b>Weight</b>	8.6oz. (245g)
<b>Frequency</b>	5MHz	<b>Update Range</b>	4MHz

This handheld unit has precise touch and read capabilities yet is economically priced. The **ZTG-3** is designed to measure the thickness of metallic and non-metallic materials such as aluminum, titanium, plastics, ceramics, glass and any other good ultrasonic wave conductor as long as it has parallel top and bottom surfaces. The **ZTG-3** will accurately display readings in either inch or millimeter after a simple calibration to a known thickness or sound velocity.

# Ultrasonic Thickness Gauge Model No. ZTG-5



<b>Display Type</b>	4.5 digit LCD w/back light	<b>Memory</b>	20 groups (100 files/group)
<b>Minimum Display Unit</b>	0.001"/0.01mm (selectable)	<b>Output</b>	YES
<b>Measuring Range</b>	<b>Pulse-Echo:</b> 0.025"-23.0" in steel <b>Echo-Echo:</b> 0.118" – 3.50" Steel (up to 35mil coating)	<b>Power Supply</b>	2-AA Alkaline Batteries
<b>Accuracy</b>	+/- (0.5% thickness + .001"	<b>Operating Temp</b>	32-122°F
<b>Sound Velocity Range</b>	3280-32805ft/s (1000-9999m/s)	<b>Battery Life</b>	Approx 100 hours (backlight off)
<b>Upper/Lower Limit Alarm</b>	No	<b>Dimensions</b>	5.90x2.91x1.30" (150x74x33mm)
<b>Scan Feature</b>	Yes. 16 measurements/sec.	<b>Weight</b>	8.6oz. (245g)
<b>Probe Frequency</b>	5MHz (P5-EE)	<b>Update Range</b>	4MHz

The ZTG-5 ultrasonic thickness gauge is packed with features typically found on high end models only. This multi-functional unit offers everything from basic measurement, **Thru Coating Capabilities**, Scanning, Adjustable Sound Velocity and memory/data output functions. This dynamic ultrasonic thickness gauge is designed to measure the thickness of metallic and non-metallic materials such as steel, aluminum, titanium, plastics, ceramics, glass and any other good ultrasonic wave conductor as long as it has parallel top and bottom surfaces.

**The ZTG-5 will accurately display readings in either inch or millimeter after a simple calibration to a known thickness or sound velocity.**

# Z-ROK

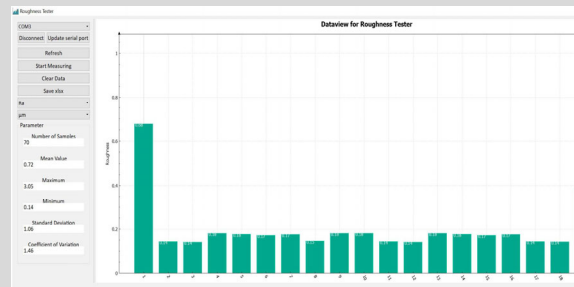
## Surface Roughness Tester-Profilometer Model No. ZRT-2



**Parameters: Ra, Rms, Rt and Rz**

Measuring range	Ra: 0.05-10.0μm Rz: 0.1-50μm Rms: 0.05-10.0μm Rt: 0.1-50μm
Display Type	1.14" IPS TFT
Cut-off lengths	0.01in., 0.03in., 0.10in (0.25, 0.80, 2.50μm)
Filter	Gauss Digital
Tracing length	0.23in (6mm)
Evaluation Length	1.25μm, 4.0μm, 5.0μm
Tracing speed	0.04in/second (1.0mm/second)
Accuracy	Within +/- 7% of actual value
Pick-up stylus	Piezo-electric
Tracer tip	Diamond, radius 10μm +/- 2.5μm
Memory / Transmission	500 Values / Bluetooth
Operating temperature	32-104 degrees F (0-40 degrees C)
Power	1pc 1.5v AA Battery
Contact force on probe	<0.5N
Static measuring force of sensor stylus	<0.16N
Dimensions	73x28x62mm
Weight	0.5lbs (220g)

**Data Output Software is Included!**



The New ZRT-2 Mini Surface Roughness Tester-Profilometer is a next generation of surface roughness tester that features high accuracy, a wide range of application, simple operation and stable performance. It is widely applicable in surface roughness testing all kinds of metals and non-metals.

### Large memory with data output via Bluetooth.

The 1.14" IPS TFT display shows choice of surface roughness parameter **Ra**, **Rz**, **Rq** and **Rt** at the touch of a button, combined with the selected cutoff length. External calibration of the surface roughness value is possible by means of a built-in calibration feature which makes adjustment of this instrument very easy. Data output via Bluetooth makes saving surface roughness results fast and easy.

The easy to use **ZRT-2** surface roughness tester-profilometer operates on various surfaces, not only flat but also outer cylinder, outer cone, grooves, and recesses greater than 80x 30mm. The areas of application are wide- spread. It is suitable for inspection departments, quality control, on the shop floor during machining, during assembly, and on site.

**The ZRT-2 surface roughness tester-profilometer comes complete with a compact durable carrying case, surface roughness standard, certificate of calibration, data output software and manual.**



# Digital Shore Durometers Durometer Accessories



**Specifications:**

**Model No. ZSD-2 Shore D**

- Measuring range: 0-100HSD
- Deviation: <1%H (known Value)
- Resolution: 0.5H
- Auto Hold
- Uses SR-44 Button Cell battery.

**Specifications:**

**Model No. ZSA-1 Shore A**

- Measuring range: 0-100HSA
- Deviation: <1%H (known Value)
- Resolution: 0.5H
- Auto Hold
- Uses SR-44 Button Cell battery.

**Designed to test the hardness of Soft Rubbers and Plastics**

These digital durometers are crafted and engineered to perform at the highest level of accuracy.

An ergonomic, lightweight design assists in taking precise hardness measurements.

*\* Durometers do not meet ASTM D2240 Specifications*



**Model No. PHT-981**

These Phase II durometer test stands are used to improve the accuracy and reproducibility of both analog and digital durometer hardness tester readings by ensuring that the presser foot is exactly parallel to the specimen table.



**Model No. PHT-961**



**3pc Shore D Durometer Test Block Kit  
Model No. PHT975-20**

- Consists of 7 color coded test blocks that range from Ha 30's to Ha 90's.
- Designed for periodic verification of calibration accuracy.
- For use with all Shore A durometers
- Test kit is serialized for easy traceability
- Durometer results should be within +/-3 Durometer Points of stated test block value.

**3pc Shore D Durometer Test Block Kit LAB CERTIFIED  
Model No. PHT975.20C**



**7pc Shore A Durometer Test Block Kit  
Model No. PHT950-25**

- Consists of 7 color coded test blocks that range from Ha 30's to Ha 90's..
- Designed for periodic verification of calibration accuracy.
- For use with all Shore A durometers
- Test kit is serialized for easy traceability
- Durometer results should be within +/-3 Durometer Points of stated test block value.

**7pc Shore D Durometer Test Block Kit LAB CERTIFIED  
Model No. PHT950-25C**



Easily detect the thickness of nonmagnetic coating on a magnetic substrate (ferrous) or an insulating coating on a non-magnetic conductive substrate (non-ferrous) utilizing our auto-detect probe.



Get non-destructive and extremely accurate testing performance

#### Package includes:

- 2 substrate samples (steel and aluminum)
- 4 calibrated thickness samples
- Carry case
- Batteries
- Operation manual
- Data output software
- Cable

#### Technical Parameters

Probe type	-	F/N	F/N
Measuring principle	-	Magnetic induction	Eddy current
Measuring range	-	0~1500 um (0-59mil)	0~1500 um (0-59mil)
Resolution (Selectable)	-	1 um, 0.1 um, .01um	1 um, 0.1 um, .01um
Accuracy	Zero calibration	±(2%H+1) um	±(2%H+1) um
Measuring Condition	Min. radius of curvature	Cx. 1.5 mm	Cx. 3 mm
	Min. radius of area	Ø7 mm	Ø5 mm
	Critical thickness of plate	0.5 mm	0.3 mm

**Note: H - nominal value of thickness**

The ZPT-6 coating thickness gauge can perform two different methods of calculating thickness measurement by utilizing the characteristics of both eddy current and magnetic induction.

**Testing performance is both non-destructive and extremely accurate.**

The ZPT-6 coating thickness gauge can be used in many areas of industry including automotive auctions, manufacturing, general engineering, commercial inspection, etc.

The ZPT-6 coating thickness gauge comes complete with a compact durable carrying case, calibration standards, certificate of calibration, data output software and manual.



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**Surface Roughness Testers**