



## Ultrasonic Thickness Gauge

- Able to gauge thickness measurement without requiring access to both sides of the test piece
- Determines sample thickness by measuring the amount of time it takes for sound to traverse from the transducer through the material to the back end of a part and back
- Calculates the data based on the speed of the sound through the tested sample
- Capable of performing measurements on a wide range of material including metals, plastic, ceramics, composites, epoxies, glass, and other ultrasonic conductive materials
- Zero function and sound velocity calibration
- Two-point calibration • Display: Digital
- Coupling status indicator • Measuring Mode: Ultrasound
- Can be easily deployed, does not require laboratory conditions
- Thickness Range: 0.03" - 15.7" (0.65 mm - 400.0 mm)
- Sound Velocity Range: 1000 to 9999 m/s (0.039 to 0.394 in/μs)
- Measurement Speed: 4 per second for a single point measurement
- Memory: 5 files, up to 100 values for each file (total of 500 logs)
- Power Supply: 2 x 1.5V AA batteries • Frequency: 5MHz
- Measurement Range: 1.2 to 300.0mm (steel)
- Includes ultrasonic couplant gel, probe, hard carrying case and batteries

**REED**



IB827

Model No.	Mfg. No.	Description	Price/Each
IB827	R7900	Ultrasonic Thickness Gauge	
IB887	R7900-Probe	Replacement Probe	

## R9030 Hardness Testers

- Rebound hardness testing is particularly useful for large, coarse grained materials, forged parts and all types of cast materials
- Measures the velocity of a propelled impact body directly before and after the impact onto the test material's surface
- Capable of automatically converting and displaying measurements into Rockwell (HRC, HRB, HRA), Brinell (HB), Leeb (HL), Vickers (HV) and Shore (HS) hardness values
- Materials that can typically be tested include cast steel, alloy tool steel, stainless steel, aluminum, bronze, copper, cast irons, etc.
- Conversion of measurements to tensile strength (U.T.S.)
- Large capacity memory can store up to 350 groups of information (depending upon impact times) including measurement value, mean value, testing date, impact direction, impact times, material and hardness scale
- Mini USB data interface
- Operates on a rechargeable lithium battery
- 128 x 32 dot matrix LCD with battery life display
- Includes: R9030 Hardness Tester, D Impact Device, Small Supporting Ring, Leeb Test Block, Nylon Brush, Battery Charger, Data Processing Software, Communication Cable
- Hardness Scale: HL, HRC, HRB, HRA, HV, HB, HS
- Measuring Range: HLD: 170 to 96, HRA: 59 to 85m, HRB: 13 to 100, HRC: 20 to 68, HB: 19 to 651, HV: 80 to 967, HS: 30 to 100



**REED**

Model No.	Mfg. No.	Description	Price/Each
IB748	R9030	Hardness Tester	

## Thickness Gauges

- Exclusive micro-computer LSI circuit and crystal time base offer high accuracy
- Digital display provides exact readings without guessing or errors
- Broad band receiving sensitivity means the meter can read probes of different frequencies
- Auto calibration
- Automatic material calibration
- Selectable metric or imperial
- Measures the thickness of steel, cast iron, aluminum, red copper, zinc, quartz glass, polyethylene, PVC, gray cast iron and nodular cast iron
- Display sound velocity at the touch of a button
- Measuring range: 1.5 to 200 mm in #45 steel
- Velocity range: 500 to 9000 m/s

**REED**



Model No.	Mfg. No.	Description	Price/Each
HX399	TM-8811	Ultrasonic Thickness Gauge	
IA746	TM-8811probe	Replacement Probe	

## Durometers

- Digital durometer for Shore A hardness testing
- Designed to measure the penetration hardness of rubber, elastomer and other rubber like substances such as neoprene, silicone and vinyl
- Pocket-sized model with integrated probe
- Measures maximum value
- Calculates average value
- Push button zero calibration
- Bright, clear, 4-digit, 10 mm high LCD readout
- Meets DIN 53505, ASTM D2240, ISO 7619 and JISK 7215



### SPECIFICATIONS:

- **Measuring range:** 0 to 90 HA
- **Resolution:** 0.1 HA
- **Deviation:** ± 1 HA

**REED**

Model No.	Mfg. No.	Description	Price/Each
IA632	HT-6510A	"A" Scale Durometer	

## Durometers

- Models feature a heat-treated, high carbon steel mainspring that is calibrated to meet or exceed ASTM Specification D2240-81
- Special cam permits a scale deflection of 100 points when the indenter is displaced exactly 0.100 inch
- Dial scale is extended over 240 circular degrees, accurate to within ± 1 division
- Threaded mounting knob at the top of each durometer permits permanent test stand emplacement
- Resettable ancillary pointer will register the peak durometer reading against all vibrations met in normal use

HB548



### MODEL HB548

- "A" Scale durometer measures the indentation hardness of rubber, elastomers, and other rubber-like substances such as neoprene, silicone, vinyl and butyl. It can also be used for soft plastics, felt leather and similar materials

### MODEL HB549

- "D" Scale durometer is designed for hard plastics - polystyrenes, vinyls, Formica, Plexiglas - hard rubbers and phenolic moulded materials

### MODEL HB538

- Foam and sponge rubber durometer measures the hardness of soft materials such as foam rubber, sponge rubber, jells and doughs
- Classifies cellular rubbers of the sponge and foam type as "x-soft", "soft", "medium" and "firm", and then divides these ranges into smaller increments

HB538



Model No.	Mfg. No.	Description	Price/Each
HB548	306L	"A" Scale Durometer	
HB549	307L	"D" Scale Durometer	
HB538	302SL	Sponge Rubber Durometer	

## Steel Hardness Testers

- Designed for accurate, rapid in place measurement of the hardness of steel and steel alloys in the range from 20 to 65 on the equivalent Rockwell C Scale
- Unit consists of two major components: calibrated indenter and direct reading microscope
- Hand-held impact indenter drives a 1/16" diameter tungsten carbide ball into the sample being tested
- Resulting indentation diameter is measured with 60X microscope
- Calibrated reticle in the microscope reads C Scale directly with an accuracy of ± 1.5 points
- Illumination system features a MagLite® flashlight with a fiber optic pipe that directs the light to the focus of the microscope
- Flat or curved surfaces of virtually any configuration may be measured
- Particularly useful where the test piece is too large or too heavy to test on bench-type tester



Model No.	Mfg. No.	Description	Price/Each
HB605	316	Steel Hardness Tester	