

NEWAGE
Testing Instruments, Inc.

Proudly offers.....

The
Series "KB"
Brinell Tester

**The world's
most accurate
and durable
portable.**



147 James Way, Southampton, PA 18966
800-806-3924 (International & in PA call 215-526-2200) Fax: 215-526-2192
info@newageinstruments.com: www.hardnesstesters.com
(formerly NewAge Industries, Inc., Testing Instruments Division)

The Brinell hardness test. Mark of precision in quality control.

Permanent proof of hardness test . . .

The Brinell tester leaves behind a telltale indentation that's harmless to the tested component. Yet it's lasting proof that a test was made. The benefits of a Brinell test are:

- Material to be tested doesn't have to be polished
- Indentation can be checked and rechecked anytime
- Test procedure requires a minimum of time

New metals and hardness testing . . .

Today hardness tests are needed more than ever with the advent of new alloys and new stress conditions. They're especially important when metals are heat treated. The Brinell test is universally recognized as an excellent means of comparing the hardness of various metals. Even tests made by different operators are more consistent than other forms of testing.

Nothing beats it for accuracy, versatility and durability.

Can be used as both a bench and a portable tester.

. . . so you'll never have to buy separate testers again.

Accuracy guaranteed to within 1/2 of 1%.

. . . exceeds minimum ASTM standards; meets U.S. National Bureau of Standards requirements and British Standard #240, Pt. 2, 1964, Sect. 1.

Requires only one operator. Minimum set-up and handling time.

. . . so you save on labor costs.

Light, easy to maneuver.

Versatile enough to test any size, any shape, anywhere.

Built to last.

. . . some have been working over 35 years without factory service.

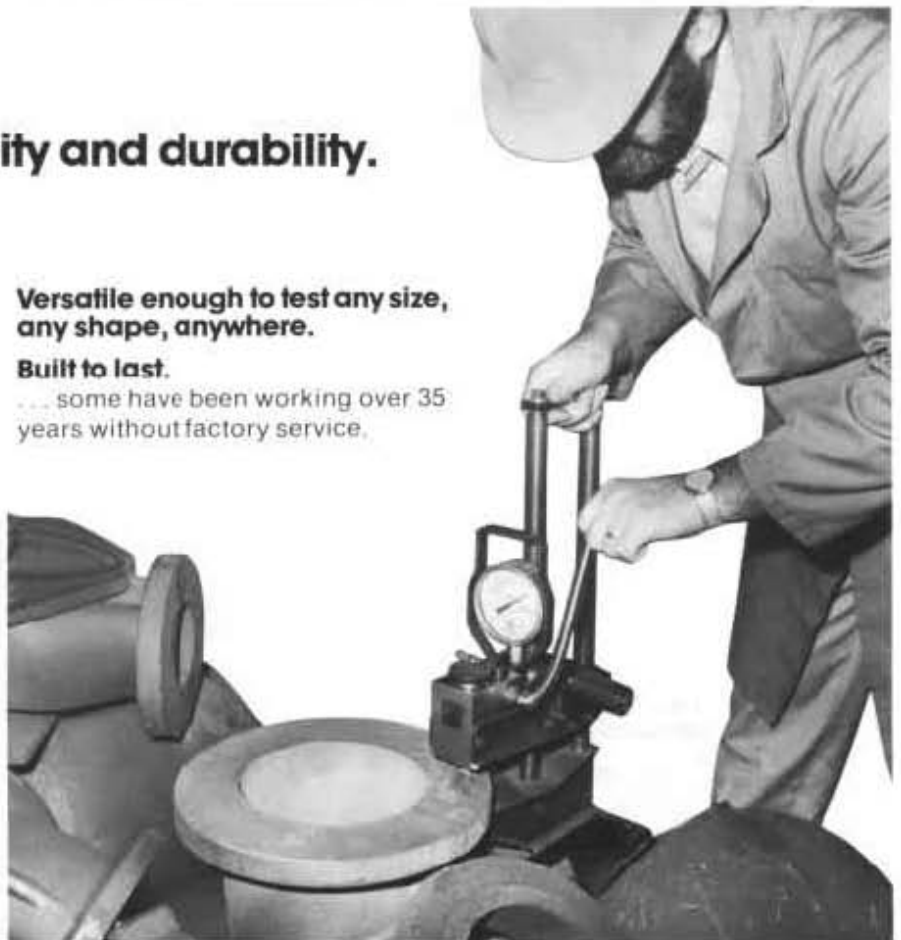
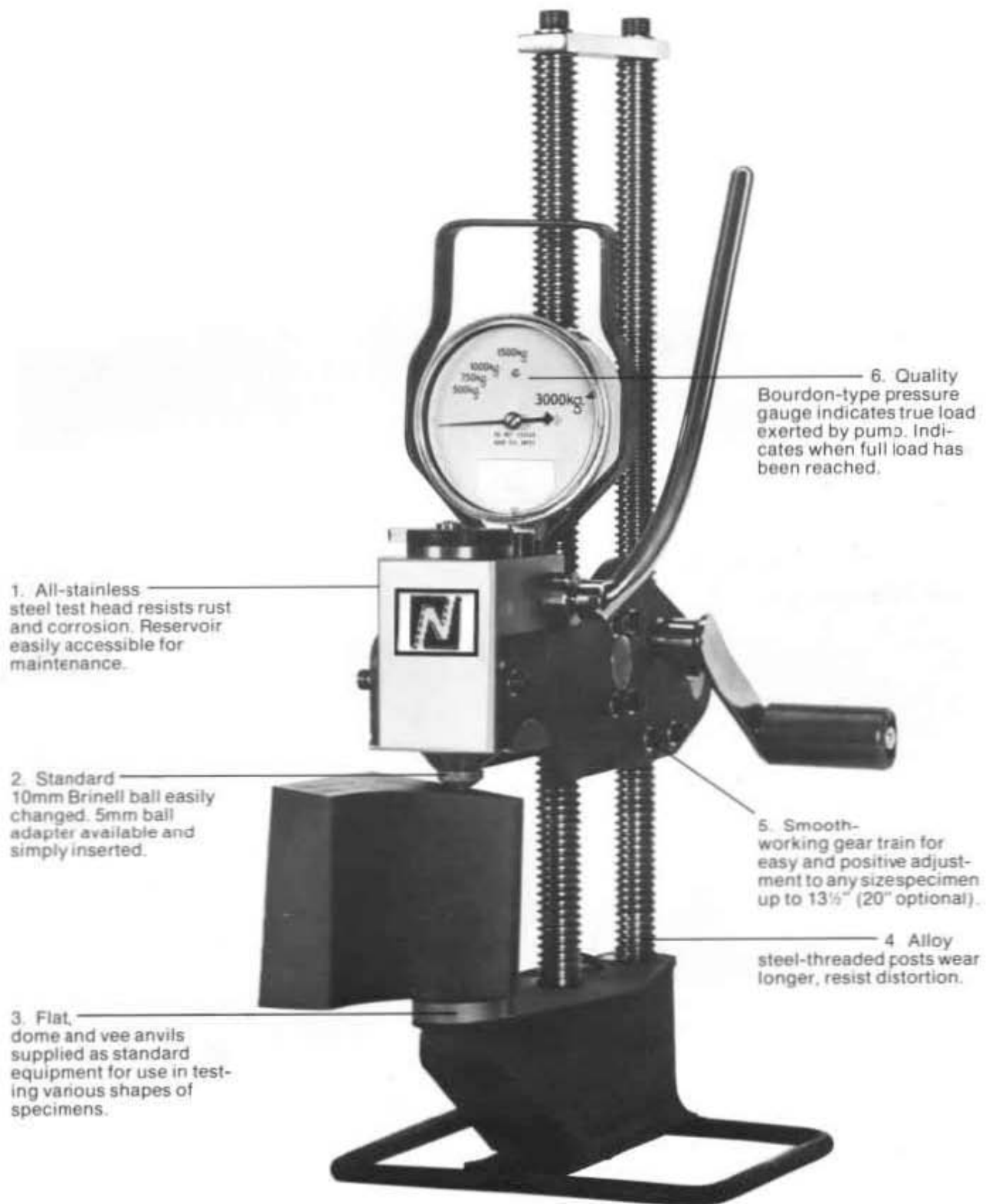


FIGURE 1



A brief look at the tester at work . . .



It's simple enough to operate . . . any worker familiar with ordinary hardness testing can learn it in as little as 15 minutes. Yet it delivers the same remarkable accuracy time after time, no matter how many different people use it.



Once the hand crank is tightened down, the tester is solidly clamped to the work. With the standard base, it can be operated quickly on parts up to 13½" thick.



By pulling the lever, the operator applies a true 3000 kg load on a 10mm ball. Indentations made by the tester can then be easily read using the Brinell microscope.



The test head can be removed from the base when unusually large or odd shapes are tested. Then by using the standard adapter or the variety of adapters that can be fabricated on the job, workmen can use the tester on oversized parts a lot more efficiently. In addition, we offer special adapters listed on the following pages.

Use these accessories and adapters for the best results.



5mm ball adapter.

For special applications, this adapter holding a 5mm ball easily replaces the standard 10mm ball. The 5mm ball and a 750 kg. load covers the same hardness range as a 10mm ball with a load of 3000 kg. This adapter is used for testing tool steel and also parts where a small impression is desired.



Adapter to reverse direction of load.

Consists of an interchangeable anvil holding the 10mm ball and a cap which screws on the ram. For making Brinell hardness tests inside pipes, tubes and other interior locations impossible to reach. Clear, sharp impressions are obtained and easily read with offset microscope especially designed for this use.



Adapter to hold standard test head upright without base.

Using this adapter, the test head can be used under large drill presses, boring mills, beams capable of withstanding the 3000 kg. load. This adapter holds the test head straight so that only one operator is required.



Low-pressure test head for non-ferrous metals.

This special head has all the accuracy and durability of the standard head, but the applied load





and the indicator dial are coordinated for softer metals. Tests can be factory calibrated to loads of 1000 kg, 500 kg, 250 kg, 125 kg or 62½ kg.







Long ram test head.

A standard test head assembled with a special ram that extends a full 2 inches beyond the range of the normal ram. It's designed to test into recessed areas or to adapt to work that has a raised edge.

Specifications and adapters.

				
Model	Standard Test Head with 13 1/2" Base	Long Ram Test Head with 13 1/2" Base	Chain Adapter	13 1/2" Base (20" optional)
Code No.	134	134 Long Ram	C.A.	134B
Capacity	13 1/2" Gap 4" Throat	11 1/2" Gap 4" Throat	8" to 3' +	13 1/2" Gap 4" Throat
Load	0-3000 Kg. <small>(Above models can be furnished with Low Pressure Test Head. To order, add "LP" to Code No.)</small>	0-3000 Kg.	0-3000 Kg. Not recommended for use with long ram	
Weight	30	30 1/2	1£ + Wt. of Chain	23

				
Model	3000 Kg. Test Head only	Low Pressure Test Head only	3000 Kg. Test Head with Long Ram	1000 Kg. Test Head with Long Ram
Code No.	3000TH	1000TH	3000LR	1000LR
Load	0-3000 Kg.	0-1000 Kg.	0-3000 Kg.	0-1000 Kg.
Weight	10	10	10 1/2	10 1/2

	See separate brochure			
Model	Brinell Microscope	5mm Ball Adapter	Reverse Adapter	Adapter to hold Standard Test Head upright
Code No.	MSE	5MA	RA	VH
Weight	1 1/2	1 oz.	6 oz.	1 1/2

IMPORTANT:

STANDARD EQUIPMENT FURNISHED: base is shipped complete with all necessary instructions and maintenance manuals, conversion tables, operating handle and set of three anvils (flat, vee and dome). The tester is equipped with a 10mm steel Brinell ball and the hydraulic reservoir is filled. The instrument is ready to operate.

PLEASE NOTE: The price of the Brinell hardness tester does *not* include the Brinell microscope, which can be ordered at any time. The Brinell microscope is furnished with a leatherette case and upright adapter, but does *not* include the stage micrometer used for checking the calibrations of the microscope. All accessories may be ordered at extra cost.

CHAIN ADAPTER. For large castings, die blocks, forgings and other large pieces of work

Fits right onto the standard test head and wraps around pieces of work that are too big for the regular clamping tester. The chain length is adjustable and the adapter needs very little adjustment to accommodate work of all sizes.

The chain adapter is lightweight and easily portable. High strength chrome/Moly steel arms hold the chain to the test head and allow it to stay rigid while the chain takes the full thrust of the load. The test head is self-centering on specimens at any point.

The chain adapter is normally furnished with four feet of roller chain, but can be made to a custom length upon request.