H17 Shore Scale Hardness Tester

- Tests soft and hard materials using different Shore scales
- One touch, fully automatic operation
- Accurate and consistent results
- Easy access to sample area
- Operator dependency reduced
- Range of sample tables

The Wallace range of H17 digital, bench-mounted hardness testers, is designed for measuring in Shore scale the hardness of various materials. Four models are offered – the H17A for testing standard rubber, H17O for soft rubber and medium density textiles, H17D for hard rubbers and plastics and H17M for thin/small rubber samples.

The robust, 'C' frame design allows the operator easy access from front and sides to safely load and remove samples. The adjustable anti vibration feet reduce the effect of external vibration.

By simply pressing the start button, the instrument functions automatically, allowing accurate, repeatable results to be recorded in much less time than traditional models.

As minimal training is required, new operators soon become confident with the H17, achieving consistent readings from the outset.

A range of optional sample tables is available, designed to locate samples of varying shapes, sizes and special holding fixtures *(see page 8)*. Keys on the front panel easily adjust the measuring head up and down to suit the sample height.

Once the start key is pressed, the foot descends to secure the sample. In line with the testing standards, once the foot contacts the sample the indentation depth is recorded after a pre set dwell time, typically 3 second. At this point the instrument identifies the indenter position and the hardness value is automatically frozen and displayed clearly on the LCD screen.

Four instrument models are offered (see page 4):

H17/1	Basic, stand alone
H17/2	With printer
H17/3	With printer and data input terminal
H17/PC	Hardness value sent to PC

H17A Model

Specification	H17A	H17D	H17O	H17M
Weight	8.7 Kg	13.7Kg	8.7Kg	8.7Kg
Dimensions	214(w) x 255 x (d) x 300mm (h)	214(w) x 255 x (d) x 360mm (h)	214(w) x 255 x (d) x 300mm (h)	214(w) x 255 x (d) x 300mm (h)
Resolution	0.1 units	0.1 units	0.1 units	0.1 units
Indenter shape	35º Cone (Frustum)	30º Cone	1/2 Spherical	30º Cone
Indenter radius	Flat	0.1mm	1.19mm	0.79mm
Full scale	2.5mm	2.5mm	2.5mm	1.25mm
Force method	Spring	Spring	Spring	Spring
Max. indentor force	8.05N	44.45N	8.05N	0.765N
Force duration	1 or 3 seconds	1 or 3 seconds	1 or 3 seconds	1 or 3 seconds
Minimum sample thickness	6mm	6mm	6mm	1.25mm
Standards	Shore A Scale: BS ISO 7619, DIN 53505, ISO 7619, ASTM D2240, JIS 6301, Shore O Scale: ASTM D2240, Shore D Scale: ASTM S2240, Shore M Scale: ASTM D2240			