DUROMETERS

Model HPSA (Rubber)
Model HPSD (Plastic)

Check•Line's HPSA and HPSD Durometers measure the hardness of a wide variety of rubber (HPSA, Shore A), plastic and hard rubber (HPSD, Shore D).

Operation is as simple as pressing the knurled aluminum shell down to the red line.

A constant-pressure indicating system assures uniform test pressure eliminating false readings due to differences between operators. Additionally, an oversized flat-bottomed surface helps provide lateral stability during measurements

All models have a flat bottom and differ in the shape of the sensing pin and the internal spring force that resists deflection of the sensing pin.

All models are calibrated using standards that are specified in various test procedures issued by ASTM, DIN and JIS Quality organizations worldwide.

HPSA and HPSD Durometers are supplied as a complete kit with gauge and operating manual in a foam-fitted carrying case.

Optional NIST traceable calibration certification available.

←18 mm→

Oversized flat bottom design provides measurement stability for the "working face" (contact area) of the Durometer.

HP DUROMETERS

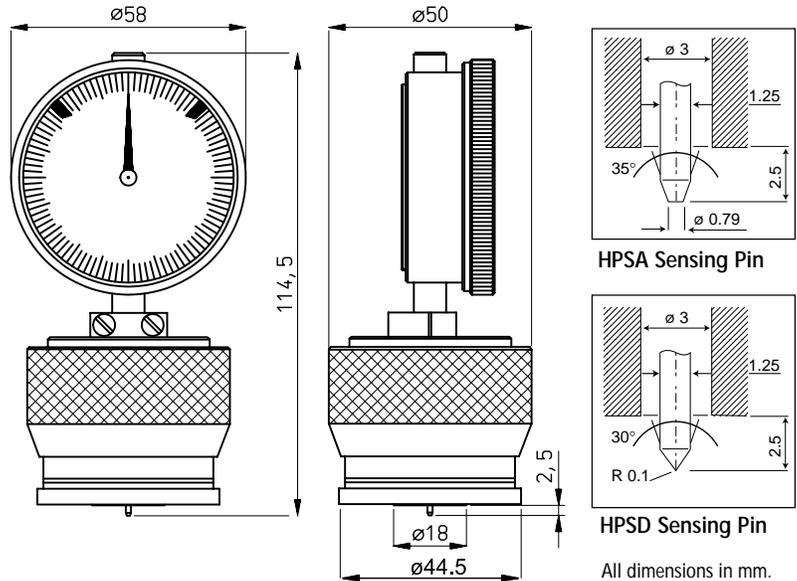## OPERATION

Measurement Pointer

Optional Memory Pointer allows you to recall peak value during measurement.

Max/Min Markers
Two movable markers can be rotated around the faceplate to mark the maximum and minimum measurement limits.

Operation
The spring-loaded outer housing ring is pressed downwards until the bottom edge meets the red line on the bottom of the body. Note this value after approximately 3 seconds. If using the optional memory pointer, return to starting position before taking next measurment

DIMENSIONAL DRAWINGS

ø58

ø50

114,5

2,5

ø18

ø44.5

ø 3

1.25

35°

2.5

ø 0.79

HPSA Sensing Pin

ø 3

1.25

30°

2.5

R 0.1

HPSD Sensing Pin

All dimensions in mm.

SPECIFICATIONS

	HPSA	HPSD
Application	Rubber & similar	Plastic
Indentor	Cone 35°, 1.25mm Ø	Tapered Pin 30°, 1.25mm Ø
Depth of Indentation	0 –.100″ *(0 – 2.5mm)*	0 –.100″ *(0 – 2.5mm)*
Test Pressure	Approx. 12.5 N	Approx. 50 N
Measuring Spring force	0.55 – 8.065 N	0.98– 44.5 N
Work Face Diameter	.71″ *(18 mm)*	.71″ *(18 mm)*
Worldwide Standards	According DIN 53505, ISO 7619, ISO 868 and ASTM D 2240	According DIN 53505, ISO 7619, ISO 868 and ASTM D 2240
Display Range	0 – 100 Scale	0 – 100 Scale
Operating Range	0 – 90 Scale	10 – 90 Scale
Scale Diameter	2.20″ *(56mm)*	2.20″ *(56mm)*
Weight	Approx. 1.10 lb. *(500 g)*	Approx. 1.10 lb. *(500 g)*
Dimensions (L x W x H)	1.97″ x 1.97″ x 4.44″ *50 x 50 x 110 mm*	1.97″ x 1.97″ x 4.44″ *50 x 50 x 110 mm*

OPTIONAL TEST STAND

PTS-HP Precision Test Stand

- Spring loaded lever for fast, precise positioning
- Long Shaft allows the gauge to move up or down to accommodate parts of varying sizes
- Compact size is perfect for all workstations

CHECK•LINE® – PRECISION QUALITY CONTROL INSTRUMENTS

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