OPERATION MANUAL

A-type apply to normal rubber,soft rubber,polyester,leather,wax and so on.

D-type apply to normal hard rubber,hard resin,acryl,glass,thermoplastic, printing plate,fiber and so on.

Measure up to standard DIN53505,ASTM D2240 ISO/R868,JIS R7215

一.OVERVIEW

Shore rubber durometer is a type of vulcanized rubber and plastic product. It has A,D and C types.

A and D type apply to the test of low and medium hardness and high hardness material.C type is suitable for 50% condensation,0.049MPa stress, use rubber and plastic together,rubber include the shoes cellular material which is made of foamer.

the durometer carry out the provision of GB/T531-99,GB2411-80,HG/T2489-93 and JJG304-2003.

二.KEY PARAMETER

Graduation:0-100 degree

Indentor running:0-2.5mm

Indentor press on telos:A,C type 0.55N-8.06N,D type0-44.5N

三.USAGE

Put the sample on the stable plane,carry the durometer,the indentor keep 12mm away from the edge,press the sample reposefully,make the indentor press it vertically,then read it untill the durometer end and the sample contact completely.measure the hardness at least 5 times in different place away at least 6mm from the sight,averaging(micropore material sight at least keep 15mm).In order to steady the measuring condition,improve the measuring precision,put the durometer set on the same model assaying rack for measuring.

四.USER GUIDE

Make zero before measure it.when durometer press on the glass,the hand should be on the position of 100 degree.Press the hand several times if it's not on zero or 100 degree.if use on the rack,can lift the hand shank,make the durometer under the gravity of the poise,the press part and the talbe contact completely,the reading should be 100±1(degree),if it's not 100±1(degree), use the hand wheel to adjust it.if it's still not workable.pls send to the manufacturer.

PRODUCT MANUAL

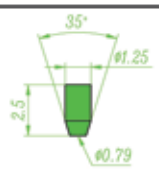
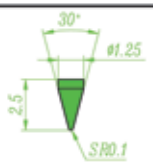
1. SUMMARIZE

The hardness of Rubber and Plastics is their comprehensive performance reaction. The Digital Shore Durometer is a kind of sophisticated measurement tool for measuring the hardness of Rubber and Plastics. . This instrument is devided into two kinds accroding to its usage: desktop and portable.

2. STRUCTURE AND CATEGORIES:

This instrument has A, C and D three models according to the pressure needle shape. The models of Durometer are as form 1.

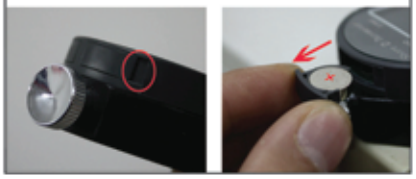
Form 1

Type	Indentor Shape	Range	Resolution
A	 **Flat cone point (0.79 mm), 35º Included Angle** suitable for medium Hardness Plastic, Rubber, Leather, Multi-grease, Wax etc.	0~100HA	0.5HA
C	**2.5 mm Spherical** It's suited for measuring Foam, Sponge, Shoes with incorporates material, etc.	0~100HC	0.5HC
D	 **Sharp cone point (SR0.1 mm), 30º Included Angle** It's suited for measuring Hard Rubber and Plastics such as Thermo Plastics, Flooring and Bowling balls.	0~100HD	0.5HD

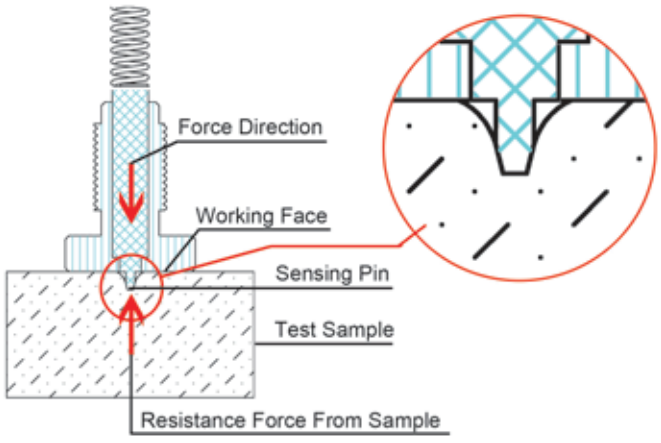
3. NOMENCLATURE

4. BATTERY REPLACEMENT

Flashing of digits shows a flat battery. Take off the battery cover in the direction shown by the arrow and replace the battery (positive side facing up).



5. OPERATING PRINCIPLE



6. USE INSTRUCTION

The thickness of measured sample need to be more than 6 mm, if the thickness is not enough, please add the same sample, but not more than 3 layers.The measured area can not be less than the pressure edge 18 mm.

1. The desktop Durometer measure: dray up the instrument first, then put into the tested sample, and then put down the instrument slowly, measure three point and get three values, the average of the three values is the tested sample's hardness value.
2. The portable Durometer measure: Grasp the instrument firmly by hand,make the pressure edge and tested sample the same firmly(refer the Form 1 for the pressure force), one second later, it will have a reading on the dial, measure three points, then get three readings, the average is the sample's hardness.
3. Attention: For normal use,. Please choose Model A or Model D. When the Model A hardness value is more than 90°, it'd better use Model D or other models. Please keep properly after use.