

## Instruction Manual TI

### SHORE DUROMETER TEST STAND

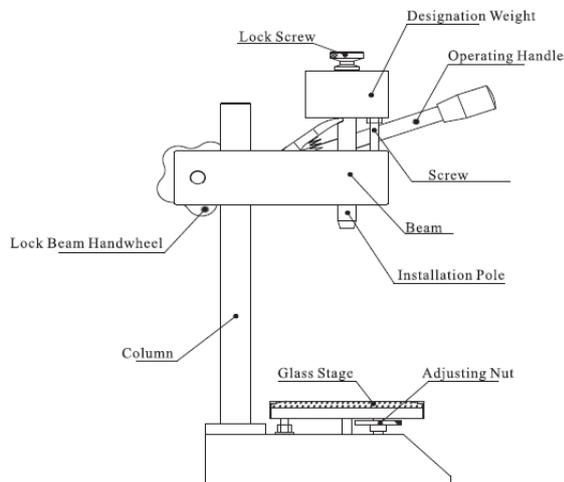


Thank you for buying a SAUTER Durometer Test Stand. The ruggedness of this stand will allow many years of use if you will care for an appropriate operation and maintenance. If there are any queries, wishes or helpful suggestions, do not hesitate to call our service number.

#### Instruction

This Test Stand is produced for our Shore hardness testers. Combined with this, tests can be made more stable and accurate. TI-A0 is applied for HB instruments Shore A and 0; TI-D is applied for HB instruments Shore D.

#### Structure



#### Operation

The Shore durometer has to be fixed on the test stand by the installation pole. The hardness testing block has to be put onto the glass stage. Then the operating handle has to be pressed by poise to place the durometer tip into the hole of the block until the foot of the durometer touches the testing block completely. At this time, the hardness value on the dial should be within  $\pm 1$  of the signed value on the block (side below). If the value is not  $100 \pm 1$ , the adjusting nut under the glass stage has to be adjusted to make the value turn to  $100 \pm 1$ .

If the durometer is used without hardness block, the operating handle also has to be pressed by poise to place the durometer tip on the glass stage, touching it completely. Here, the hardness value on the dial should be within  $100 \pm 1$ . If not, it should be adjusted by the adjusting nut under the glass stage to make the value turn to  $100 \pm 1$ . The testing material has to be put on the glass stage, the operation handle has to be moved down by force of the designation weight. When the durometer touches the test material completely, the value appears on the dial.

The reading value time of thermoplastic rubber is 15 seconds, vulcanised rubber or other unknown rubbers is 3 seconds. The Shore C model is able to read the value within 1 second after the durometer has touched the material completely.

#### Caution

1. This test stand can only be applied for Shore durometers. If it is installed with different durometers, the quality of weight first has to be adjusted according to the requirements.

GB/T531.1-2008 has a rule for the adjustment of total quality as shown below:

Shore A and Shore AO model is  $1_{0}^{+0.1}$  kg

Shore D model is  $5_{0}^{+0.5}$  kg.

Shore AM model is  $0.25_{0}^{+0.05}$  kg

Shore C model is  $1_{0}^{+0.1}$  Kg. (In HG/T2489-2007)

Note: Total quality includes quality of lock screws, designation weight, screw, installation pole and durometer.

2. It has to be applied in environment without shock, the max. pressing speed of the test should not be above 3.2mm/s.

#### Maintenance

The test stand had to be cleaned after using it with a smooth cloth to avoid rust.