MRM Metrology Inc.
905 595 1000
sales@MRMmetrology.com
www.MRMmetrology.com

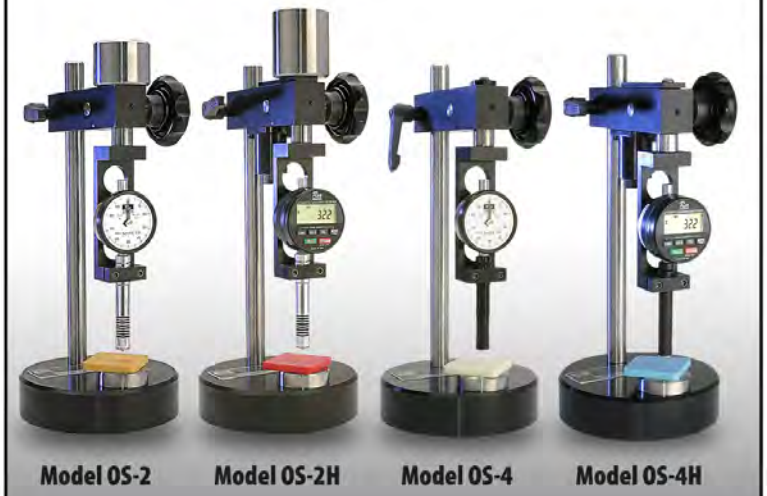
Rex® DUROMETERS

CERTIFIED SPACE TECHNOLOGY

# OPERATION MANUAL

for

Models OS-2, OS-2H
OS-4, & OS-4H



Model OS-2 Model OS-2H Model OS-4 Model OS-4H

## Unpacking and Setting Up

All Rex operating stands are completely assembled and tested at our plant to ensure a quality product.

Your Rex Operating stand is packaged completely assembled, but there are some basic steps that must be performed before using it for the first time.

1. Unpack the stand. Take special care to support the stand from the bottom when unpacking, or whenever moving the stand.

2. Clean the stand and specimen holder with alcohol if necessary. The stand should then be placed on a clean, flat surface that will be free from vibrations.

3. Loosen the column lock lever and raise the arm assembly to the top of the column, then re-tighten the lever. For ease of use, the position of the column lock lever can be adjusted by pulling out on the lever and then rotating it until it is in the desired position.

4. Using the allen wrench provided, loosen the two screws on the gauge clamp, and carefully place the gauge in the clamp. It is recommended that the clamp be secured on the large diameter section of the lower barrel of the instrument (do not clamp on the ½" diameter portion with the black lines) - see cover. To prevent damage to the gauge, take care not to over-tighten the screws - only use enough force to secure the gauge.

## Testing Procedure

Your Rex Operating Stand has a built-in load weight that applies the proper force - thus eliminating human error. When using the stand, it is important that the travel of the gauge is set (see diagram 1A).

1. To raise the gauge off the specimen turn the knob in a clockwise direction until the gauge is clear, then replace the specimen with another and slowly lower the durometer until foot makes contact - the durometer will then indicate the hardness value of the specimen. **CAUTION** - if the gauge is raised either by lifting the arm assembly or by turning the knob, care should be taken not to let the indentor or foot of the gauge hit against the specimen holder or base thus damaging the gauge.

### Only for Dampened Operating Stands (OS-2H, OS-4H)

2. Your stand is equipped with an adjustable air dampener, which will automatically lower the durometer at a constant rate. Rex Gauge presets the stand to lower the durometer through its full range of travel in approximately one (1) second.

3. To hold the gauge in the "up" position - use the thumb screw located on the opposite side from the knob. When the gauge is raised tighten the thumb screw to hold in the up position. Then simply loosen the thumb screw to let the gauge lower down.

**Note: Rex Gauge Durometer Models 1500, H-1000, and 2100 are not recommended for use with operating stands.**

## Setting the Travel

To set travel, raise the upper arm assembly high enough to place the test specimen on the specimen holder. Now lower the upper arm so that the foot is in full contact with the test specimen. There should be an approximate 1/8 inch gap between the upper arm and weight or lift arm depending on the model stand.

**Note: Weight or lift arm should not touch the upper arm while performing test.**

**Diagram 1A**

