

Hot Modulus of Rupture (HMOR)

The ATS Hot Modulus of Rupture (HMOR) system has been designed to perform 3-point bend tests (MOR) to help characterize refractory materials in regards to their flexural strength at elevated temperatures. Knowing the flexural strength helps predict deformation behavior at service temperatures. Using our Series 3350 High-Temperature Box Furnace we have options available with all of our UTM models for a single or multiple specimen setup. Applied Test System's 3350 Box Furnace allows for operating temperatures as high as 3272° F (1800° C). This HMOR is designed and manufactured to meet ASTM C583 standards and specifications.



Features:

- Specimen test fixture consists of a lower fixture and upper compression ram. It is available with user specified contact point diameters and spacing.
- Optional multiple specimen feeder. The multiple specimen option to increase efficiency, up to 5 specimens heating in the furnace at a time. This includes a specimen feed system and receptacle to collect previously tested specimens.
- Optional specimen clearer with separate waste bin.
- Adjustable 7" touch screen HMI display
- Jog Up / Down Buttons
- USB / Ethernet Ports
- Automatic Break Detector
- Emergency Stop System



Close up of a Specimen inside the 3350 Box Furnace.

Product Specifications:

Specimen Capacity	1 – 5 Specimens
Power Requirements	230 VAC, 1 Ph., 50 / 60 Hz, 15 A
Dimensions	32 in. W x 24 in. D x 60 in. H
Speed Range	0.02 – 20.0 in. / minute
Load Frame Capacity	5,000 lbs.
Horizontal Clearance	16 Inches
Vertical Clearance	36 Inches
Crosshead Travel	24 Inches