



## Horizontal Extensometers

Tinius Olsen manufactures horizontal extensometers that compliment their horizontal testing machines. These horizontal extensometers have a unique design that incorporates pneumatic controls that automatically lower the extensometer arms onto the specimen prior to the test and raise the arms at the end of the test.

In addition, friction free air bearings on the extensometer provide extremely accurate strain measurement through fracture.

There are two models to select from; both have a 2 inch gage length as standard and vary by the extent of strain and/or elongation measurement.

Both extensometers incorporate, as standard, hardened steel knife edges that are complimented by exclusive Olsen 'double round" strain sensors. These features give the extensometers accuracies that make them grade B1 of ASTM E83 equivalent.

This unique design and accuracy can also be applied to a similar type of extensometer to measure precisely the reduction of specimen thickness as it is being stretched. Together these extensometers allow the calculation of either the  $r$  value or the  $N$  value.

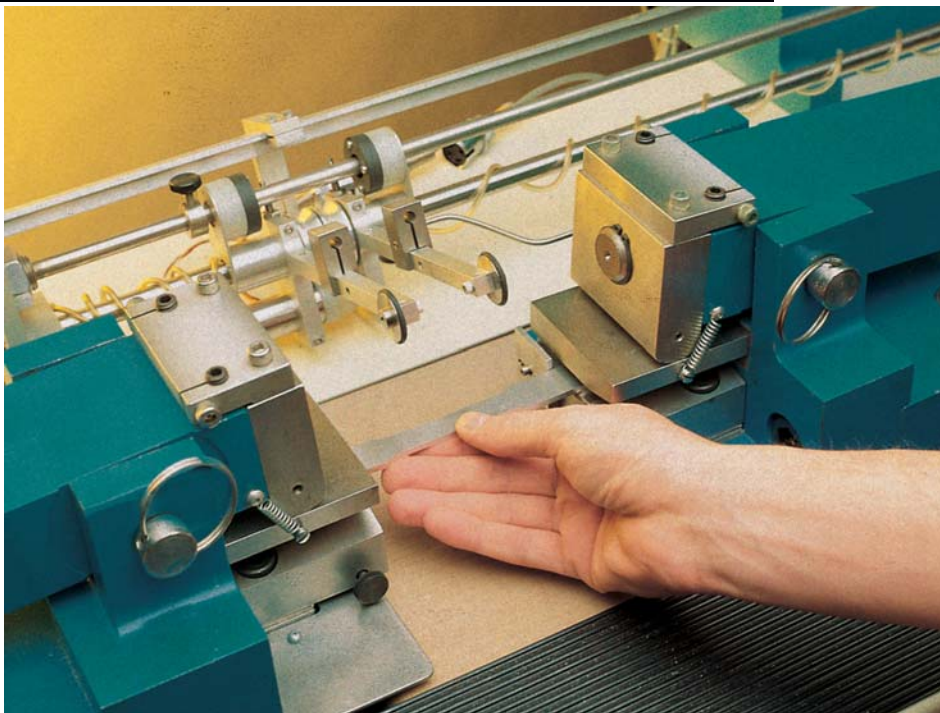


Fig 1. Model HMH-50-2 mounted to a 5,000 lbf horizontal tester



Fig 2. This shows an  $r$  value extensometer with a model HMH-50-2.

### Technical Specifications

Model	Gauge Length	Strain Measuring Range	Accuracy
HMH-50-2	2in	50% (1in)	B1
LMH-50-2	2in	50% (1in), 125% (2.5in), 250% (5in) and 500% (10in)	B1