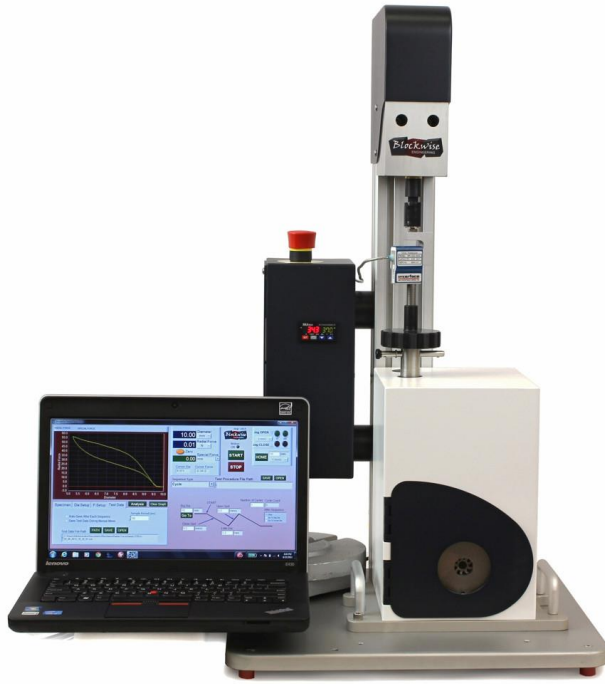


# Radial Force Testing – Complete System vs. Fixture



Blockwise Engineering LLC  
www.blockwise.com

Blockwise supplies complete radial force testing systems, and also radial compression stations for use as “fixtures” on the customer’s tensile testing machine.



## Complete System

### Includes:

- Radial compression station
- Hardware to adapt to tensile tester (force-limiting device not necessary)
- Temperature-control system (optional, shown here)
- Diameter-calibration pin
- Tensile Testing Machine Model TTR2, with:
  - "Blockwise Radial Force" application software
  - Laptop PC
  - Force-calibration weight
  - Precision force transducer

### Advantages:

- Dedicated radial force software:
  - Very simple, intuitive operation
  - Quick, fool-proof, 3-minute calibration of both diameter and force
  - Real-time display and graphing of diameter vs. radial force
  - Analysis tools help you to quickly estimate "radial strength" or "chronic outward force" according to ASTM
- No changeover required to do radial force testing

## Fixture for use on your tensile tester

### Includes:

- Radial compression station
- Hardware to adapt to tensile tester (includes protective force-limiting device)
- Temperature-control system (optional, not shown here)
- Diameter-calibration pin

### Advantages:

- Less total tabletop space
- Lowest cost for radial force testing capability (If you own a tensile tester)

# Radial Force Testing – Complete System vs. Fixture

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## Disadvantages:

- Tabletop space is dedicated to radial force testing
- More expensive

## Disadvantages:

- More difficult to learn and use
- Calibration takes more time
- Real-time display & graph show linear distance and linear force; diameter and radial force must be calculated post-testing using spreadsheet software
- Machine changeover from tensile testing to radial force takes time