



## MTS Multiple Sample Fatigue Fixture

For high-cycle fatigue testing of medical devices

The MTS Multi-Sample Fatigue (MSF) Fixture can perform strain-based high-cycle fatigue tests on up to 15 individual stations in a conditioned 37C saline solution using a single test machine. This fixture provides an economical solution for testing medical device components by characterizing fatigue life of materials and structures such as:

- » NiTi Structures
- » Vascular Stents
- » Endovascular Graft Structures
- » Percutaneous Heart Valve Structures
- » Percutaneous Heart Valve Repair Clips
- » Vena Cava Filters & Structures
- » Septal Occluders and Structures
- » Dental Implants
- » Sutures

The MTS MSF15 Fixture is designed for use with MTS Acumen Electrodynamic Test Systems to provide a cost-effective high-cycle fatigue testing solution for fatigue life curve development.

### Features

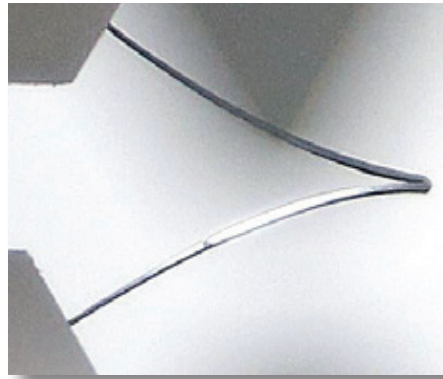
- » 15 test sites per fixture +25% more samples in one test (vs. 12)
- » 50 mm test space clearance at each test site
- » Adjustable test height for larger/smaller samples
- » Individual station load sensing & break detection with choice of load cell capacities such as 45 N (5 kg)
- » Individual mean strain adjustment to balance all samples to the same initial strain level
- » Proprietary design simplifies alignment for each test site
- » Easy to load design allows the user to set up each test site at an easy to reach location then lower the fixture into the preconditioned bath
- » The 37 C (+/-2C) Transparent Bath allows simple video verification for each test site during the test



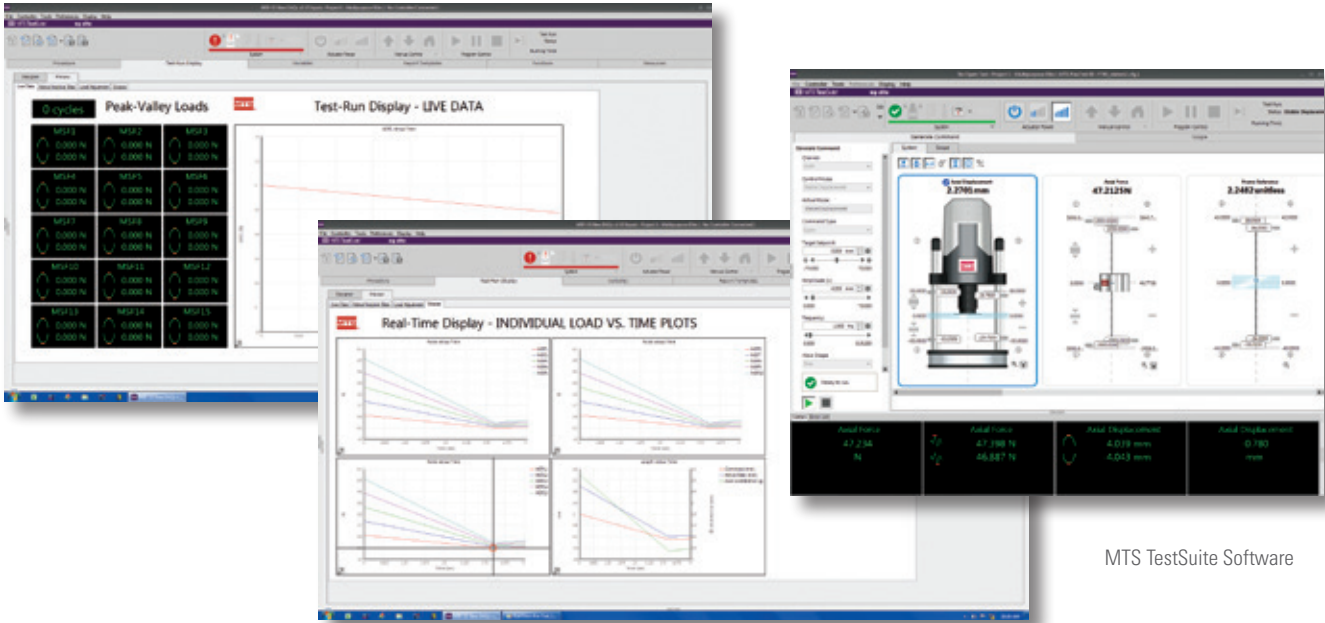
MTS MSF15 Fixture with Low Mass Grips

### Targeted Data Acquisition for Each Sample

With the MTS FlexTest® controls and TestSuite™ software, you can trigger data acquisition to capture individual sample fracture data without affecting data acquisition on the other samples. The software detects load drop off and can notify you, allowing you to make decisions based on the load change. Based on the notification, you may want to trigger data acquisition to create a specific data file for that sample. This feature allows you to isolate the data you need, eliminating tedious sorting through great amounts of data to find the relevant data, which saves a tremendous amount of time.



NiTi Stent Apex Sample



MTS TestSuite Software



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