

Lower Cost Carbon Fiber for Flywheel Applications

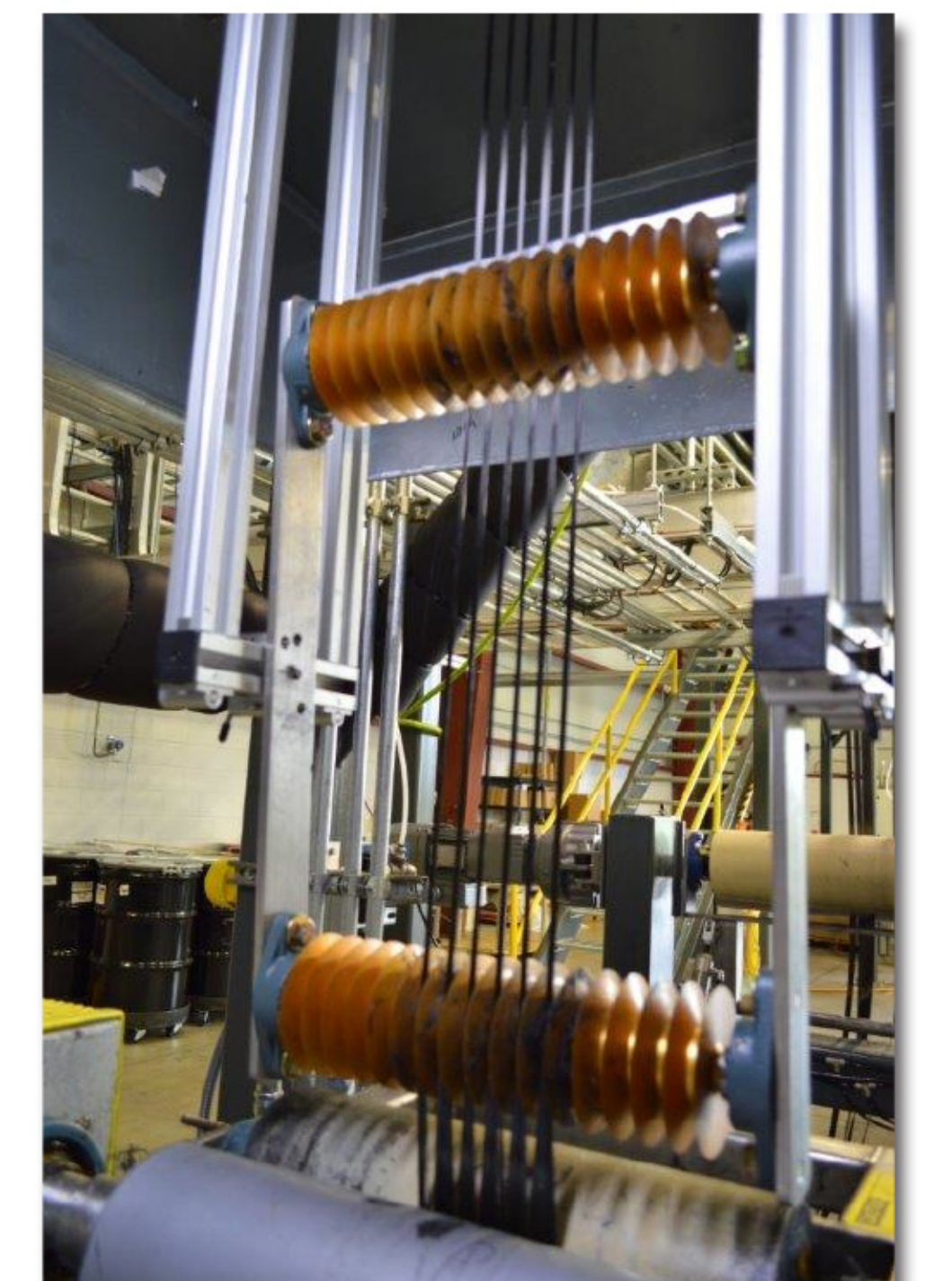
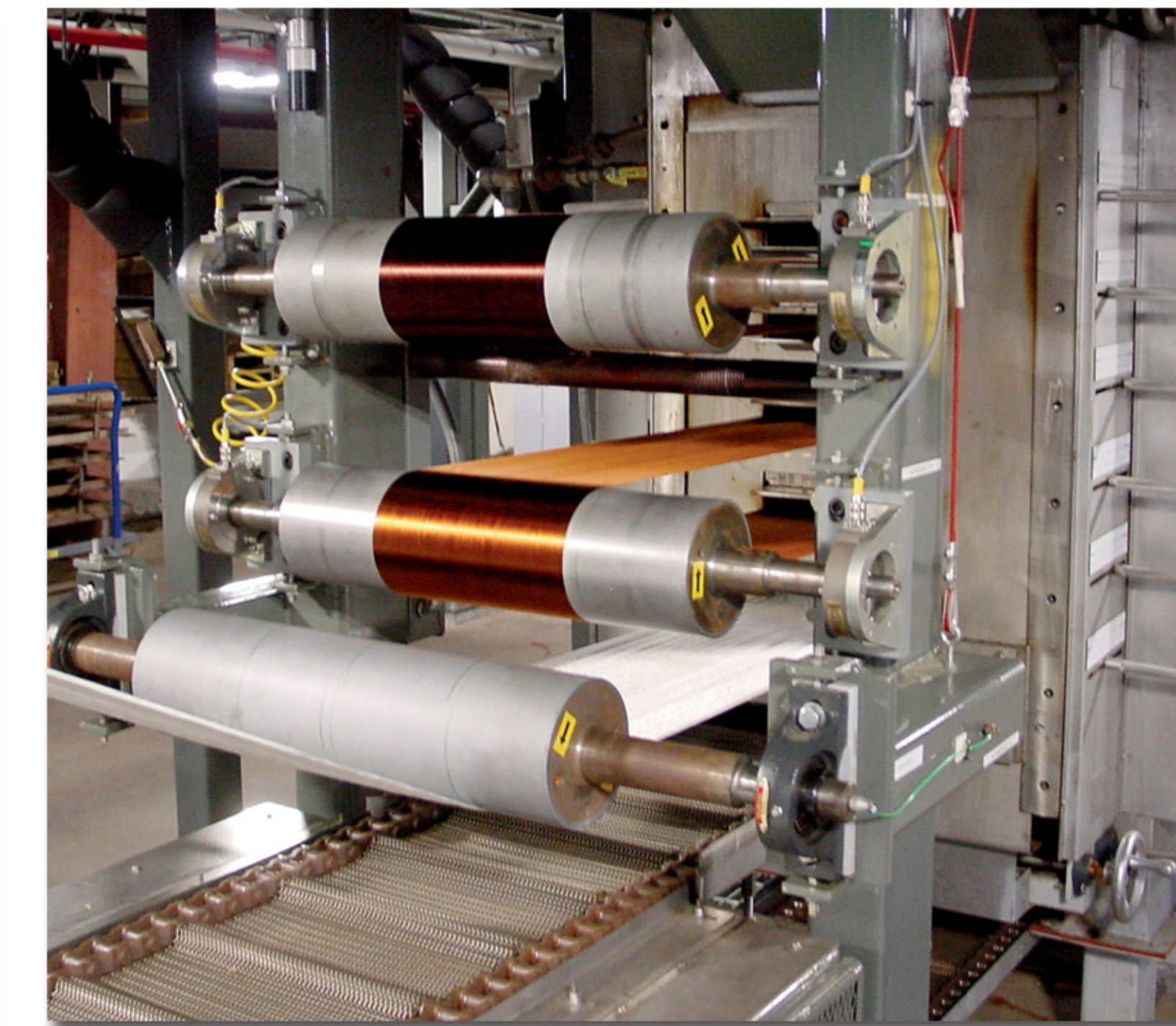
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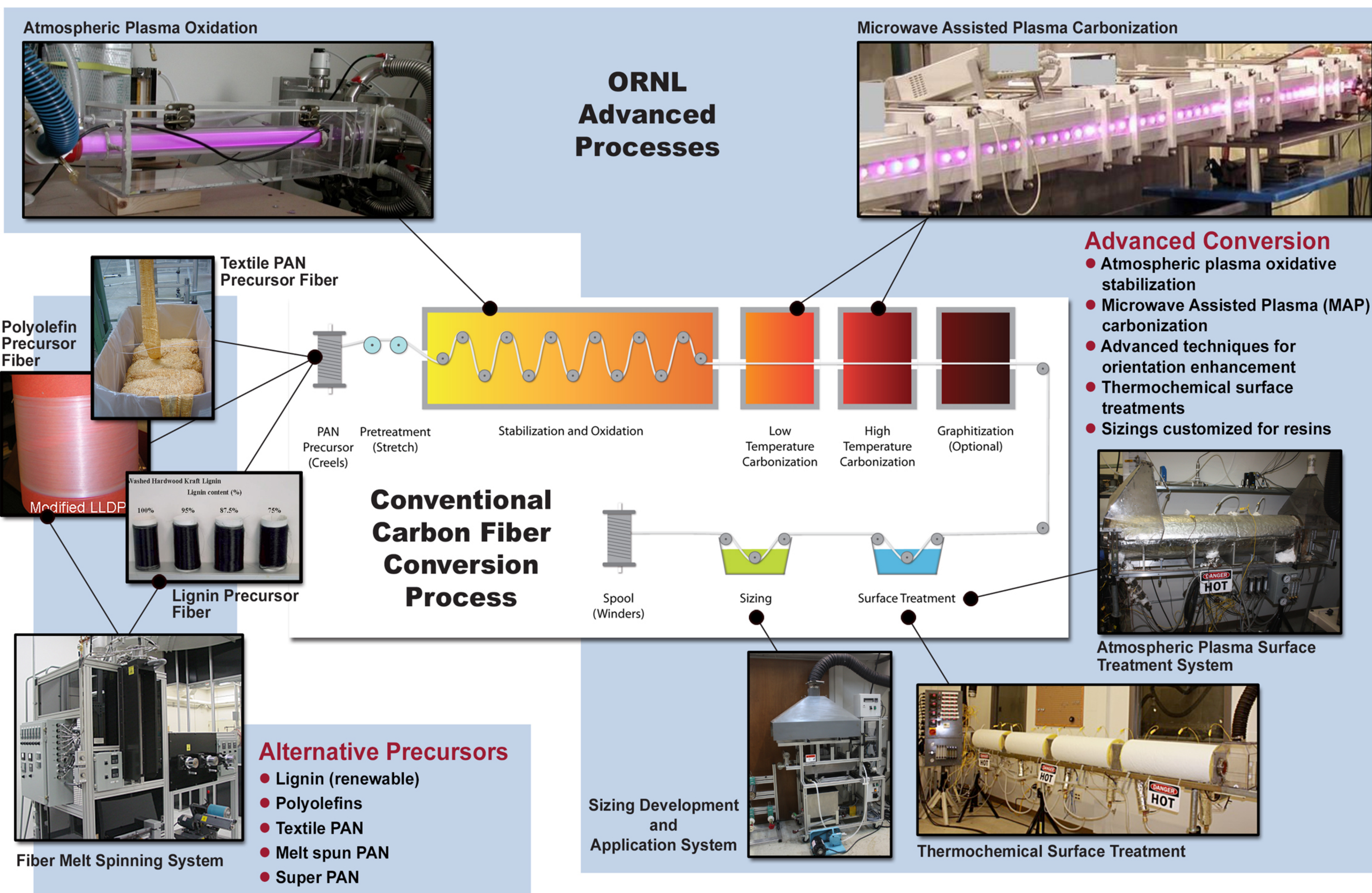
Sponsor: US Department of Energy – Office of Electricity Energy Storage

Carbon Fiber Technology Facility

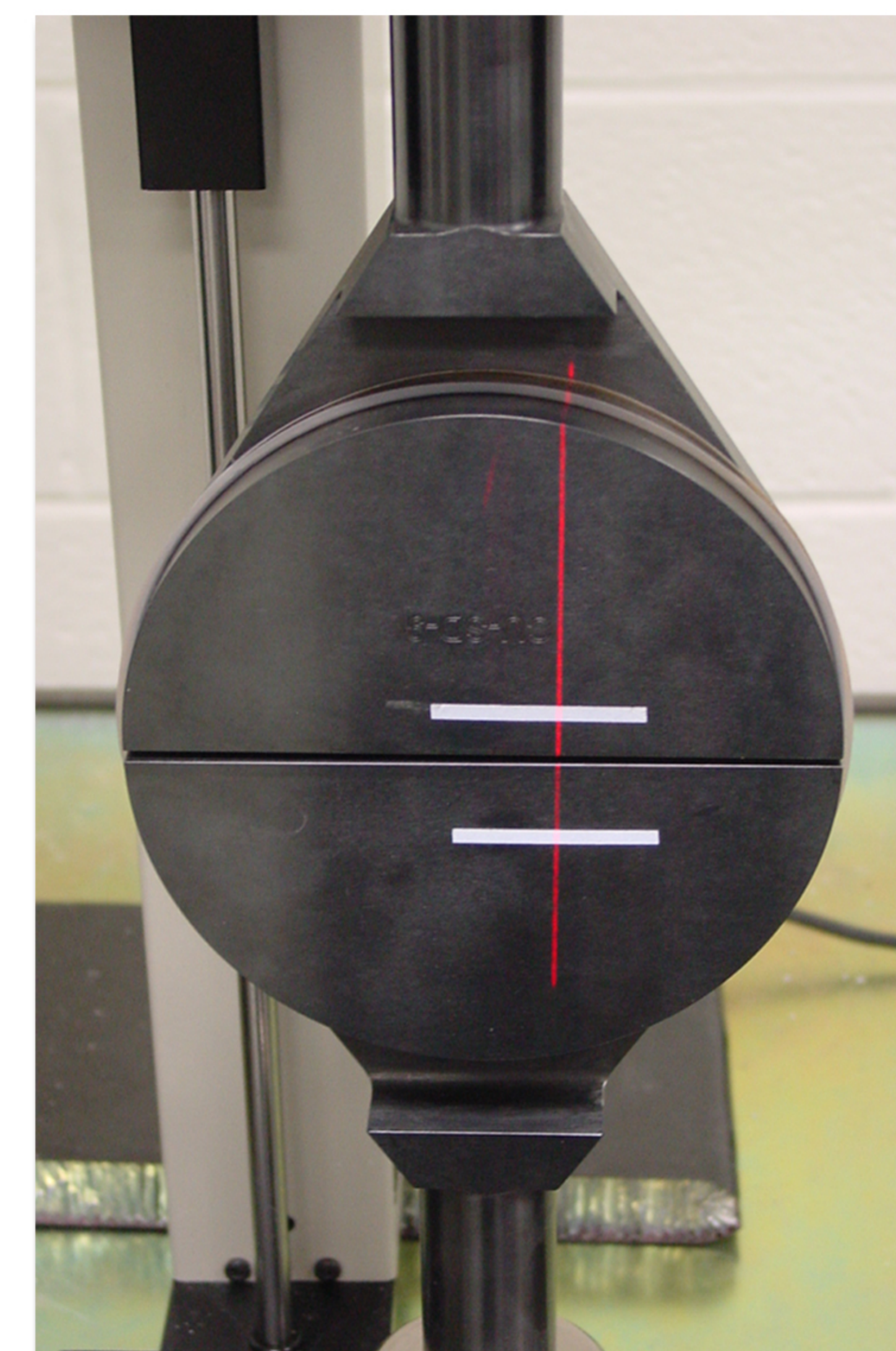
- 25 tonnes/yr carbon fiber production capacity
- Multiple precursors and material forms
- Demonstrate technology scalability
- Produce fibers for material and process evaluation



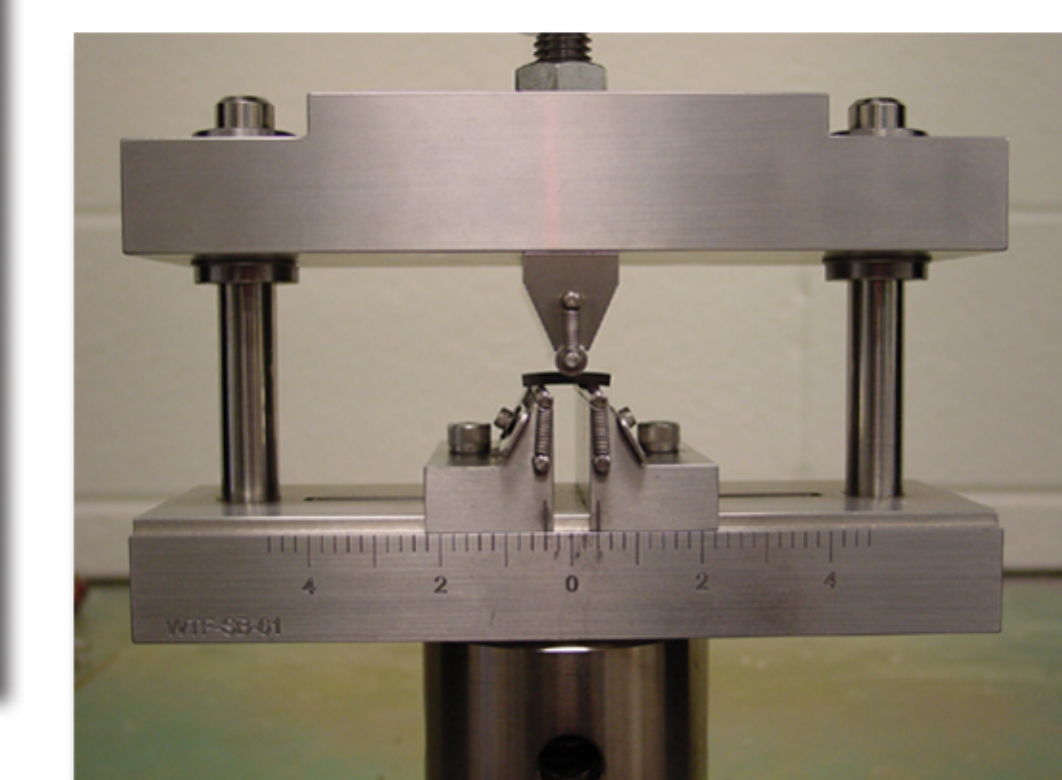
ORNL is Working with a Number of Partners to Develop and Demonstrate Low Cost Carbon Fiber Alternatives Such as the Textile PAN Precursor Example Shown



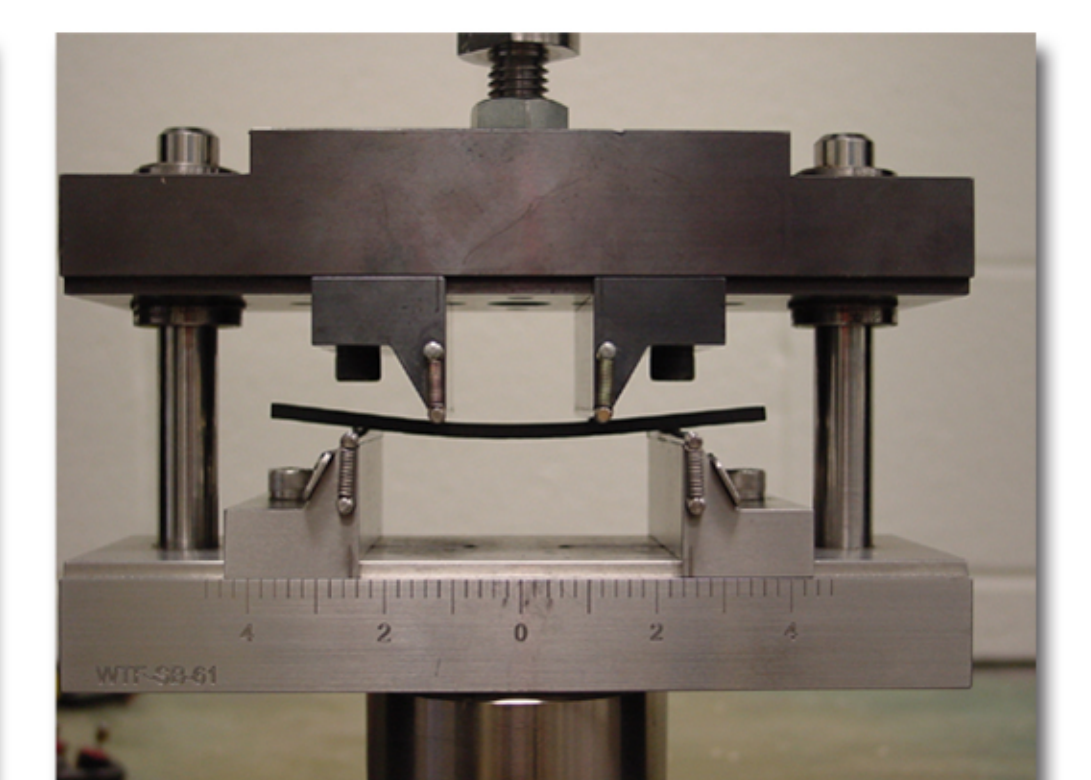
Wet Filament Winding of Test Sections



Split-D Testing of Rings for Circumferential Strength



Short-Beam-Shear



4-Point-Flexural Test