

Design, Model, and Application of a Variable Stiffness Spring

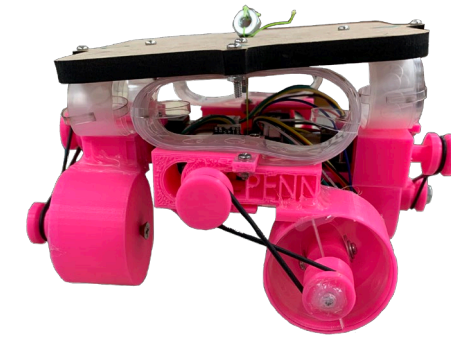
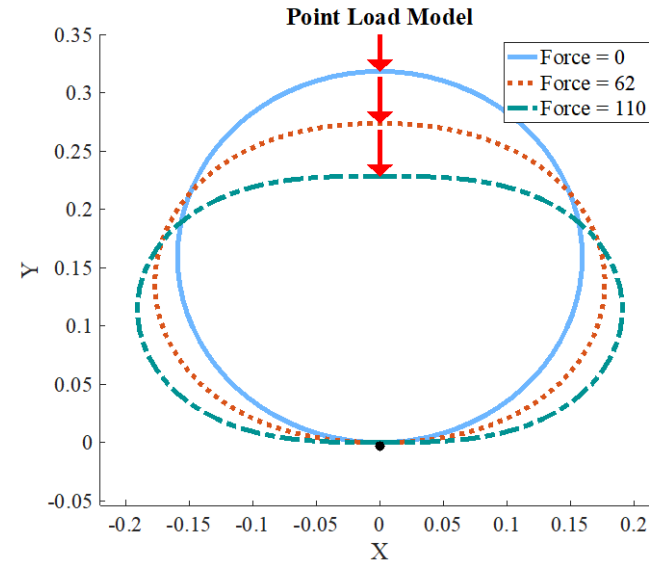
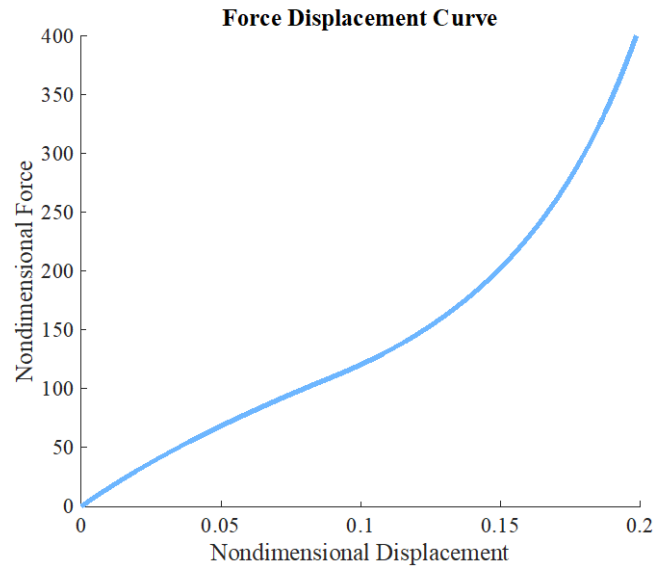
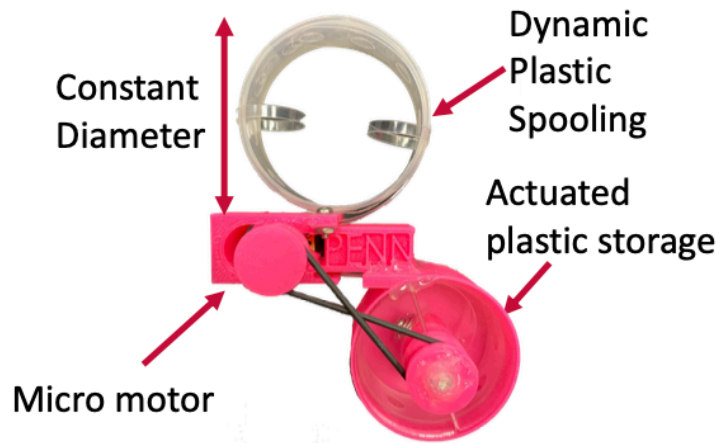
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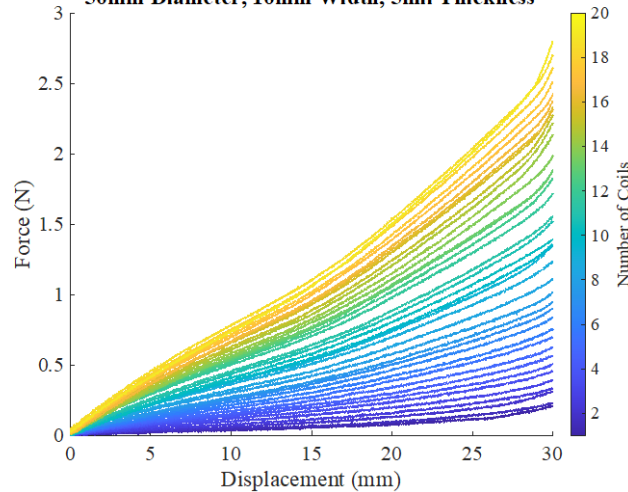
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Design Advantages

- No dimension change
- Stiffness Doubling in <1s
- 10x Stiffness Range
- Low Cost, Fast Construction, Lightweight

Force Displacement Curves of Coiled Ring Structure
 50mm Diameter, 10mm Width, 5mil Thickness



Error of all Coil Layers during Compression

