

Supplementary Movie 1 – Main Video

Supplementary Movie 2 – Static Tensile Test

Supplementary Movie 3 – Dynamic Fatigue Test

Supplementary Movie 4 – FEA Simulation for Trajectory Analysis

Supplementary Movie 5 – Video Tracking for Trajectory Analysis

Supplementary Movie 6 – Lab Locomotion Experiments

Supplementary Movie 7 – Compression Test

Supplementary Movie 8 – Car Driving Over Robot

Supplementary Data File 1 – Static Tensile Test Data

Supplementary Data File 2 – Dynamic Fatigue Test Data

Supplementary Data File 3 – MATLAB Kinematics Scripts

Supplementary Data File 4 – FEA Simulation File for Deformation

Supplementary Data File 5 – SuperSlicer Configuration Bundle

Supplementary Data File 6 – CAD Files for Robot

Supplementary Data File 7 – Autodesk EAGLE PCB File

Supplementary Data File 8 – Arduino Control Code for Robot Locomotion

Supplementary Data File 9 – Image Processing MATLAB Script

Supplementary Data File 10 – FEA Simulation File for Trajectory Analysis

Supplementary Data File 11 – Trajectory Analyses Image Processing and FEA Data

Supplementary Data File 12 – Mean Error Python Script

Supplementary Data File 13 – Locomotion Experiments Image Processing Data

Supplementary Data File 14 – Locomotion Experiments Video

Supplementary Data File 15 – Body Material Test Data

Supplementary Data File 16 – Compression Test Data

Supplementary Data File 17 – Body Geometry Test CAD Files and FEA Simulation File