

# Feasibility Analysis

- Max Static Deflection =  $\sim .025''$
- Max Static Stress =  $\sim 12,950$  psi
- Factor of Safety =  $\sim 2.75$
  
- Based on Hand Calculations

# Test Plan

- March (1)
  - Important components of test run will be ease of use and general acceptance of device by line workers.
- April (2)
  - Expected Loads will be ~400 lbs for the rotor, ~900lbs for the top casing and ~50lbs for the Nozzle Ring, well below Max Rated capacity.
- May (1)
  - Test any upgrades to the design based on previous feedback

# Mechanical Simulation of Boom

