

Summary

Project Name: Development of 60 and 80 feet aerial work platform machines

Scope: New product development 60 and 80 feet AWP Machine.

Software: Solid works 2017, Ansys 19.2, EPDM, Analytics

- Design improvements on major Structures (chassis and linkages)
- Theoretical validation through hand calculations
- Extraction of forces through Analytics models
- Subsystem level and System level FEA for digital validation
- Design optimization based on FEA results.
- Optimized yoke casting to qualify for ANSI /EN280 for wheel stuck condition.
- Creation of multiple Options like engine options, generators, hostile Package, Tire, cold start, engine pre-cleaner, Positive air shut off etc.
- Detailing of systems & Subsystems
- Resolution of proto build issues and assembly snags.
- Machine performance testing inline to product qualification plan.
- Prepare ECO's for production release.
- Technical Publication – Product Manual updates
- Creation of decal layouts and Decal drawings

