

Design Profit Top Use Cases

Manufacturing Software by Munro & Associates

Appliance Manufacturing

Challenge

- Reduce height of the windings on Stator Wire Compressor
- Increase stability of a malfunctioning Stator
- Reduce cost of winding method

Solution

- Use Design Profit software to model complexity and analyze system
- Perform cost analysis and ideation sessions

Benefits

- Slinky Helical Wound Stator Lamination to reduce height
- Resin Coating Stators - Eliminating Slot Liners to offer more stability



Automotive Manufacturing

Challenge

- Reduce total number of threaded fasteners and replace overhead tool drive of threaded nuts
- Water fording spec (i.e., panels hit a standing puddle of water) requires high forces applied at driving speeds

Solution

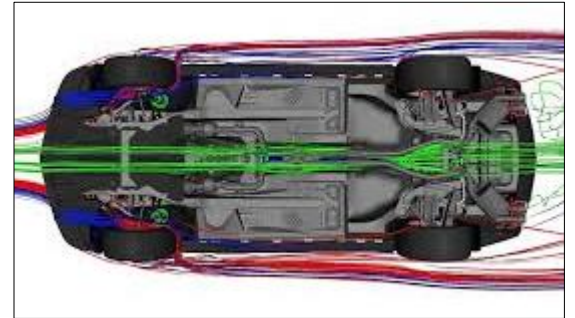
- Design Profit software fastener tools, including: fastener count, discrete fastener count, and fastener report

Benefits

- Use hand applied fasteners with low insertion force and high torque retention



Wheel Liner



Underbody Panels

Medical Devices

Challenge

- Significantly reduce assembly steps
- Reduce labor cost important

Solution

- Use Design Profit software to model assembly process and rollup labor cost
- Track multiple redesigns of varying cost savings and risk

Benefits

- Reduced part count 42%
- Reduced number of operations 43%
- Reduced labor cost 42%
- Reduced complexity of the product design and improved quality
- Reduced Cost of Quality 34%
- Reduced assembly time 44%
- Reduced fixture and tool usage 34%
- Considered a success by both engineering and manufacturing



ICU Hospital Bed