The client is a leading manufacturer of innovative, protective packaging products and packaging systems. Their service portfolio includes – designing and marketing packaging solutions and services for industries worldwide.

Client required:
- Cost reduction
- Weight reduction
- Improved production yield
- Estimated cost savings.

Our engagement to optimize the machine design modifications and leaner manufacturing process included:
- Redesign or integration of assembly parts for part count reduction
- Weight optimization to sustain required strength and stiffness of assembly & to reduce overall manufacturing cost
- Alternate low cost part selection for electrical & electronics components
- Engineering Analysis (Finite Element Analysis)
- Prototyping
- Verification

Air Cushion Winder Assembly - one of the most important components in packaging machine was identified by us for design optimization activity. We studied the working mechanism stages & section dissection. We prepared the design specifications and detailing task for sensor mount assembly, motor & clutch.
L&T Technology Services is a wholly owned subsidiary of Larsen & Toubro with focus in the engineering services space, partnering with many of the Fortune 500 companies globally. It offers design and development solutions throughout the entire product development chain across various industries such as Industrial Products, Medical Devices, Transportation, Telecom and Hi-tech and Process Engineering. The company also offers solutions in the areas of Mechanical engineering Services, Embedded Systems Services, Product Lifecycle Management (PLM), Engineering Analytics, Power Electronics, M2M and the Internet of Things (IoT).

Our Approach

We worked on electrical BOM cost reduction, 3-D part models, drawings and existing component cost to execute the project as per standard. This specialized requirement saw our team justifying assembly weight, scrutinize manufacturing process to reduce material wastage and assimilate the number of parts used. The objective of cost reduction with process and part optimization was achieved in the expected time frame.

Tools & Techniques

Tools:
- Altium Designer 9
- Solid Works 14

Techniques:
- Cost Breakup Analysis
- Function Analysis System Technique
- Function Cost worth Analysis
- Fishbone analysis

Final Result

We delivered overall 30% cost reduction and achieved design optimization to simplify package process that reduced material wastage and brought down manufacturing cost.

L&T Technology Services Impact

L & T Technology Services helped customer to achieve desired cost reduction while maintaining the form fit function with adequate stiffness and strength even after optimization.

About Industrial Products

"Industrial Products" is one of the mature business groups of L&T Technology Services that partners with global customers in the areas of Building Automation, Energy, Process Control, Machinery, Medical and Home & Office Products. We have successful track record of partnering in their product development process to provide engineering excellence.

A strong team of domain experts and multi-disciplinary industry professionals in embedded, mechanical, application software and testing all under one roof provide “End to End engineering services.” We enable our customers gain competitive edge through technological solutions, product innovations, co-patent creations and concurrent engineering with value add of cost arbitrage and reduced time to market.

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Know More

For more information on our services, visit our website: www.Lnttechservices.com or drop us an email at: corp.marketing@Lnttechservices.com

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