COST REDUCTION



Imagine a 20-60% drop in your manufacturing costs. The science of Compliant Mechanism can achieve a big reduction in your manufacturing and production costs. It is also the most ergonomic form or process engineering pathway AI can mathematically design.



Stuck with the limitations in traditional Mechanical Engineering designs? Let us welcome you to the world of COMPLIANT MECHANISM Designs

Compliant mechanisms use **elastic body deformation** to transfer an input force or displacement to another point. Essentially, it is the use of part flexibility instead of rigid parts connected with pins.

Example: Vice Grip plier - reducing parts and simplifying design







Complaint Mechanism Vice Grip Plier

For your Existing Designs:

Reduce Production and Manufacturing Costs



Compliant Designs provide many ways to reduce Manufacturing Costs



Costs



Lower Manufacturing Cost



Improved Durability



Increased Portability

And... Design change Flexibility - adapt to market changes

And when your design team is stuck due to new challenges:

Compliant Methods may provide the ONLY way to the design where no one has designed before

Increase Revenue with new...



Where Component Weight is a Liability



Where Precise Motion is a Design Requirement



Where Space is Limited - Miniaturize



Where Mechanism Noise is a Constraint



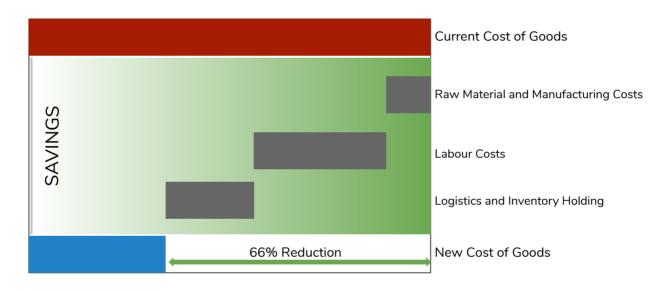
Uninterrupted & Improved Performance

Discover the ROI and the risk profile when your production process gets ergonomic perfection.

Compliant Mechanism is changing production engineering in the same way that Artificial Intelligence changed Computer Science. Those who adopt Compliant Mechanism as their production strategy will have the least-cost manufacturing process and rule the market.

Write to us at consult@cmdelabs.com.

The True Cost of Status Quo in Mechanical Design & Manufacturing

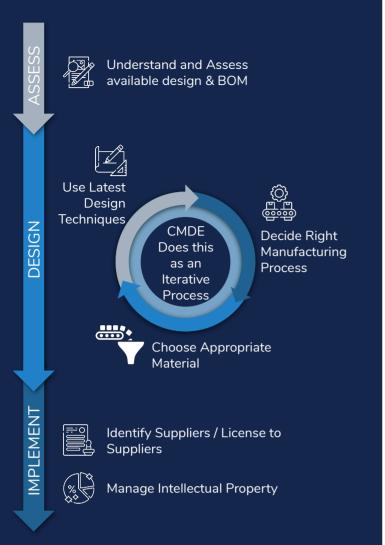


^{*}From a published example of windshield wipers. Total market size 8.5B\$ in 2019. For more details on this and how your company can benefit contact www.cmdelabs.com

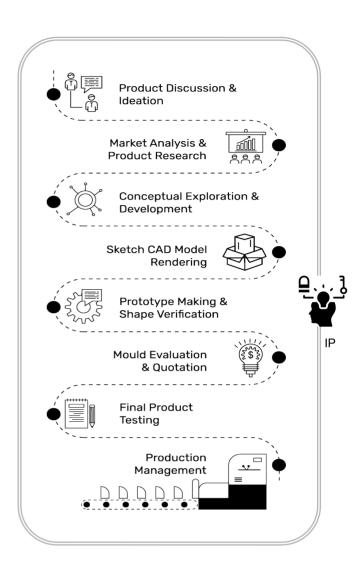
Companies are rapidly adopting the transformation and changing the status quo.

Many leading companies can now afford Compliant Design because of the optimum cost model offered by CMDE Labs. Find out how you can easily fit non-disruptive analysis within your budget. Industry experts who have managed some of the most complex supply chains and manufacturing units shall help your team.

Our end-to-end Design and Support Process



Complete Project Management, Planning and Strategy



Ability to affect choice of Design, Material, Suppliers and Manufacturing methods is the only option for maximizing cost savings -

CMDE gives YOU the ability to do that!

Shantonu Ray

Managing Partner



Mangesh Mahajan

Managing Partner



Examples of Compliant Mechanisms Designs in Automotive Industry



Seats



Steering Wheel



Pedals





Springs



Shock Absorbers



Arms



Linkages



Bushing and Joints



Wipers



Bumper



Mirrors

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