HIBRISE

Think Fresh !

ENGINEERING SERVICES

Power Electronics

Electrical Machines

Electrical Drives

We help enterprises to address their electro mechanical design challenges through R&D, Product design, Modeling and Analysis.

Our team, led by a technocrat with global experience and many U.S Patents, brings innovation and agility to enable shorter product development cycle.

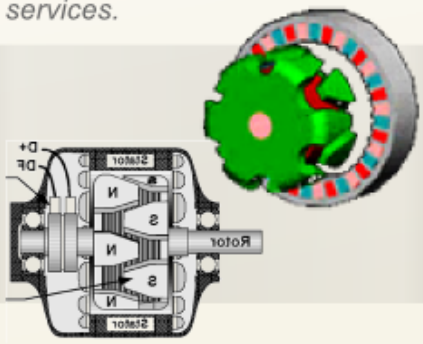
Actuators

Transformer

Sensor

1 Research & Development

Creating new knowledge and technology through innovation which would provide competitive advantage to develop new products, processes, and services.



Concept development, simulation, prototype, testing & documentation.

Research new ideas for feasibility, Return on Investment (ROI) Analysis

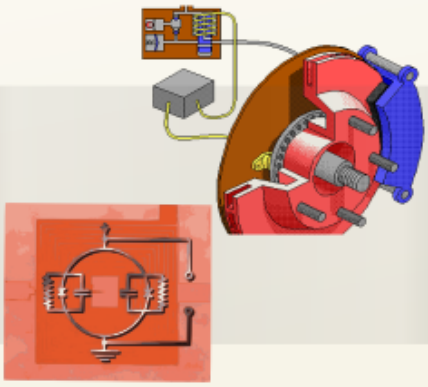
Literature surveys, patent reviews, Technology and its feasibility

Reverse Engineering, Consulting engagements

Market analysis, competitive analysis

2 Product Development

Product design and engineering with strong focus on Electrical, Electro Mechanical and Power Electronics.



Comparative study & Bench marking

Detail design, Design Optimization, prototype building, testing and documentation.

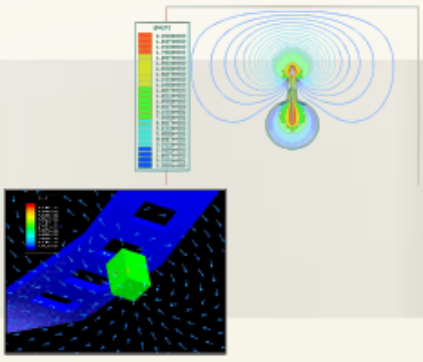
Troubleshooting and improvements to existing products.

Investigations & analysis on the issues from design to implementation phase.

Sourcing components and subassemblies

3 Modeling & Analysis

Providing innovative solutions through computer aided design and analysis in electromagnetics, mechanical and electronic circuits.



Electromagnetics

1. Static
2. Eddy Current
3. Transient
4. DC & AC Conduction
5. Coupled Field

Mechanical

1. 2D & 3D modelling, drawings drafting and other visualizations
2. Structural Analysis
3. Thermal
4. Vibration

Electronics

1. Mixed Signal Circuit Simulation
2. System modelling

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Case Studies

Accurate design through CAD & Analysis

Identified critical design parameters which affects the performance of automotive alternator (Claw-pole) through Design of Experiments(DOE). Developed a FEA based 3D simulation model which helped the client to create new designs.

For an India's major automotive electrical system supplier

Smarter, faster, eco-friendly and cost effective

Reduced product design cycle time by developing in house design tools for induction motors, permanent magnet based magnetic sensors and micro strip induction design which resulted in reducing overall product development cost.

For one of the Fortune100 companies in Automation and Control Systems

Developing new methods

Established a design methodology through platform modelling for Single/ Multi Speed Resolvers used in Aero, Defence & Energy Applications. This used as bench mark for further designs which reduced the complexity in design.

For one of the Fortune100 companies in Automation and Control Systems

Substantial Growth

Designed more than 100 motors of single phase FHP induction motors for HVAC, Commercial & Appliance applications and holds the distinction of enabling strong revenue generation through new design and cost savings through Value Engineering projects.

For one of the US based Fortune10 MNC

Precise every time

Designed and developed Hall, AMR technology based sensors which are used in Energy, Automotive, Aero and Industrial application to measure Speed, Position (Linear/Rotary) & Current etc.

For one of the Fortune100 companies in Automation and Control Systems

Efficient and Sustainable Solutions

Developed and implemented power converter for 2.1 MW DFIG wind turbine and validated the performance at different geographic locations

For India's leading wind turbine manufacturer

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Map