

GRM – Product Design

“When designing a new product there is always an increased demand to reduce the cost and weight of products.”

GRM’s capabilities in Product Design have been used in several industries including motorsport, medical, military and aeronautical applications. One of the many companies benefiting from GRM’s optimisation led design techniques is Siemens Magnet Technology.

GRM Consulting have origins in optimisation methods and have taken the CAE lead approach to provide customers with not just the correct design, but also to be able to deliver it. With a history of producing designs working in the SOLIDWORKS environment, GRM can interpret topology optimisation results into practical designs capable of meeting numerous requirements whilst still meeting the minimum mass and cost targets.



Throughout their history GRM have been able to significantly reduce the volume of the material in a multitude of products and industries, all using topology optimisation with the FEA code VR&D GENESIS.

Several factors are considered when performing the topology optimisation; design space, plus the loading and functional requirements the design has to meet are provided. Topology optimisation is the best technique to determine the most efficient design layout to support multiple loading requirements.

Converting the results from the topology into fully functioning designs is not always a simple task.



GRM however has experience in both design and analysis, alongside an able and equipped team enabling a design to be created, whilst taking into account the results from optimising the former design scheme.

For more information about the software tools used and the application to this project contact info@grm-consulting.co.uk