

GRM Commission Test Facility with PLACES Lightweight Seat

Test Lab Commissioning and Capabilities

Already providing CAE simulation support to the Jaguar Land Rover led Innovate UK research project, PLACES, GRM have extended their support of the programme to include structural validation testing. Commissioning the new testing facility with the PLACES seat has allowed JLR and GRM's teams to bring both the CAE and physical testing under one roof. This close link has helped to improve CAE correlation and hence confidence in its predictive capability as a development tool.

GRM customers can now benefit from combined CAE and physical testing support for their product development, allowing them to work with one engineering team for all of their structural engineering requirements.

The test lab centres around an adaptable bed-plate system which allows testing for a variety of different test types. With the ability to test stiffness and strength of components and sub-systems, GRM are able to add this capability to their existing product development process, and as a result can support product development from concept design, through to initial testing, validation and correlation.

As well as enhancing the product development life-cycle for product design projects, GRM are now able to offer their customers a unique linking of CAE and test, to provide unprecedented levels of correlation, setting them apart from their competitors. The new test lab facility is resourced by skilled engineers who, as a result of their background in structural analysis, are qualified for failure investigation and post-test understanding. This coupling of CAE and test allows post-test analysis to be conducted further enhancing understanding of the test results, as well as providing the opportunity to validate FE models.



Background of GRM Consulting

GRM is a design engineering consultancy, providing product, analysis and software solutions. Founded 13 years ago as a Finite Element Analysis (FEA) consultancy, GRM has now grown to encompass a wide range of new capabilities including software development, product design, prototype manufacture and now, GRM are proud to announce, their very own test lab facility.

Available Services

- Adaptable bed-plate system for a variety of test types
- Stiffness and strength testing of components and sub-systems
- Unique linking of CAE and Test to provide unprecedented levels of correlation
- FE model validation through component and sub-system testing
- Detailed failure investigation and post-test understanding utilising CAE where necessary
- Rapid design and delivery of fixtures and jigs

