

BUILDING SIMULATION CAPABILITIES IN RIMAC TECHNOLOGY

¹ Kristina Šarović*, ¹ Karlo Seleš

¹Rimac Technology, Croatia

KEYWORDS

FEA, Mesh generation, ANSA/META

ABSTRACT

The Simulations Department, as a part of the Components R&D at Rimac Technology, has been an integral part of the development of electric powertrain and battery systems, providing virtual prototyping capabilities for fast and accurate design insights through calculations.

Over the years, our team of experts has grown and we have continuously expanded our capabilities, databases, and toolsets. As a result, we have gone beyond our initial role of virtual validation and are now fully integrated into the R&D processes of the company, conducting material testing, validation, and verification, among other tasks.

Recently, we implemented BETA CAE software, ANSA and META, into our workflow, which has transformed our capabilities even further. By using the same pre/post-processor for different solvers and applications, we can collaborate more efficiently both within and outside the department. The advanced and customized toolsets in ANSA have also allowed us to create high-quality meshes and models, improving the accuracy of our simulations. In this presentation, we will discuss the implementation of ANSA and META and its impact on our simulation capabilities, as well as our future plans for continued growth and development in this field.