

Arrival

Client

Arrival Ltd is a UK based electric vehicle designer and manufacturer, specialising in the production of lightweight commercial vehicles. Arrival is focussed on providing unique commercial vehicle experiences whether that be for drivers, fleet managers or other road users.

Challenge

Arrival's main challenge is to design units for its vehicles that meet a set of very complex criteria. The development of electro-mechanical system for a model is quite complex and without a robust tool to understand the iterations between the different components of the gearbox and different components of the electric motor it is difficult to have a good design and efficient operation.

Solution

In every scenario Arrival needs to have good NVH and are very focused on reducing transmission noise in addition to optimising the performance for very high mileage vehicles. Their solution was to work with Romax and integrate the Romax toolchain into their development process because it allowed them to complete system level optimisations.

Benefits

Arrival's cooperation with Romax has been excellent, Arrival is increasing the number of users of the software within the company and their capability of the software and utilising the designs in their day to day working environment, results of which will be reflected in its vehicles.



As a true pioneering company, Arrival is very much focussing on technology development. We are looking to different ways, new ways, to reinvent electrical propulsion technology as we know it. One of the major enablers, on this effort, is the cooperation with Romax and integration of Romax software to our development. The Romax suite gives us the ability to quantify tradeoffs and iterate through design ideas with speed and precision.”

Manos Polioudis,
Head of Powertrain, Arrival

Hexagon is a global leader in sensor, software and autonomous solutions. We are putting data to work to boost efficiency, productivity, and quality across industrial, manufacturing, infrastructure, safety, and mobility applications.

Our technologies are shaping urban and production ecosystems to become increasingly connected and autonomous – ensuring a scalable, sustainable future.

Romax, part of Hexagon's Manufacturing Intelligence division, provides world-leading solutions for the design, analysis, testing and manufacture of gearboxes, drivetrains and bearings. Learn more at romaxtech.com. Hexagon's Manufacturing Intelligence division provides solutions that utilise data from design and engineering, production and metrology to make manufacturing smarter.

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