

Koenigsegg Unleashes Its Potential With Lauterbach



The world's first 4-seater Megacar,
The Koenigsegg Gemera
Source: Koenigsegg

Established in 1994, Koenigsegg is renowned for crafting luxury cars and cutting-edge vehicles, consistently leading in automotive innovation. We explore their journey of integrating Lauterbach TRACE32, a vital component of their journey to elevate software development and requirements management processes. Additionally, we dive into their latest groundbreaking project, the world's first 4-seater Megacar, a testament to their ongoing commitment to innovation.

Koenigsegg's unique development method
Historically, Koenigsegg's taken a more flexible approach to product development, customizing each model's goals to suit it as distinct purpose. Mattias Bernhold, Platform Software Manager at Koenigsegg says their requirements have typically emerged from functional goals, with architectural decisions evolving accordingly. Mattias stresses the significance of a structured process for handling requirement changes. "We're recognizing more and more the importance of a structured process for managing changes to requirements. We've grown quite rapidly, so we're working to improve everything related to the development process"

Testing holds a central role in Koenigsegg's development process. Their comprehensive testing regimen extends from testing in controlled setting to real-world testing using prototype vehicles. This early testing approach helps find and fix problems early on, ensuring a high-quality product.

Koenigsegg follows a dynamic approach to product development by tailoring each model's objectives to its unique purpose. For instance, the Regera was engineered to achieve the maximum possible speed up to 400 km/h, significantly influencing the drivetrain design. This insight were later integrated into the development of their next car model, the Jesko, which prioritized track performance and speed.

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How Koenigsegg supercharged their team with Lauterbach TRACE32

Recognizing the importance of a talented team in driving innovation, Koenigsegg collaborated with Nohau Academy, who offers training in "Lauterbach Trace Functions" and "Lauterbach Debugging." These courses make use of Lauterbach TRACE32, a development tool designed for complex applications and can with the Power Trace module present a detailed picture of the behaviour of your application. This tool was adapted for a project Koenigsegg was undertaking 2021/2022, strategically enhancing their team's capabilities and software development processes.

Koenigsegg's flexibility in keeping up with market trends and adopting new technologies highlights their leadership in the industry. They do this while staying compliant with safety and regulatory requirements. The "Lauterbach course," skillfully conducted by Nohau Academy with course leader Kristoffer Martinsson -Support and Technical Manager at Nohau, received great reviews.

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Phone: +46 (0) 40 59 22 09

<https://nohau.eu/events-training/courses-training>
training@nohau.se

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"This Lauterbach training not only improved how we used the tools but also enhanced our requirements management process." Mattias says. Another participant from Koenigsegg shared their thoughts, saying, "The teacher is highly skilled and possesses a deep understanding. I learned greatly from the hands-on exercises and personally I would have like more of them."

Due to their positive experience with the Lauterbach tool, Koenigsegg is now exploring additional areas where it can be effectively applied.





The world's first 4-seater Megacar

Their newest creation, the world's first-ever 4-seater Megacar is a testament to their personal dedication to innovation. Imagine a car that not only possess 2,300 horsepower but also offers the luxury of accommodating four passengers. "We showed The Koenigsegg Gemera, I think, for the first time two years ago. And even then we sold a third of the planned production. There has been an explosion of interest" says Mattias.

The Gemera stands as a testament to remarkable engineering, featuring a carbon fiber monocoque chassis combined with the powerful Dark Matter E-motor. Equipped with advanced safety technologies such as four-wheel drive, adaptive cruise control, and lane assist. The megacar also delivers astounding acceleration, reaching 0 to 60 mph in under 2 seconds, and achieving a top speed surpassing 200 mph.

Looking ahead to what's next, Koenigsegg's journey with Nohau Academy has equipped them with a edge in the ever-evolving automotive landscape. And with their latest creation, they continue to captivate the automotive world. The overwhelming interest in this groundbreaking vehicle underscores Koenigsegg's unwavering position as an industry pioneer, and production is set to commence in late 2024, marking another milestone in their extraordinary journey.

nohau

Contact

Nohau Sweden
Phone: +46 (0) 40 59 22 00
sales@nohau.se

Nohau Finland and Baltic
Phone: + 358 40 681 0141
sales@nohau.fi

Nohau Denmark
Phone: +45 44 52 16 50
info@nohau.dk