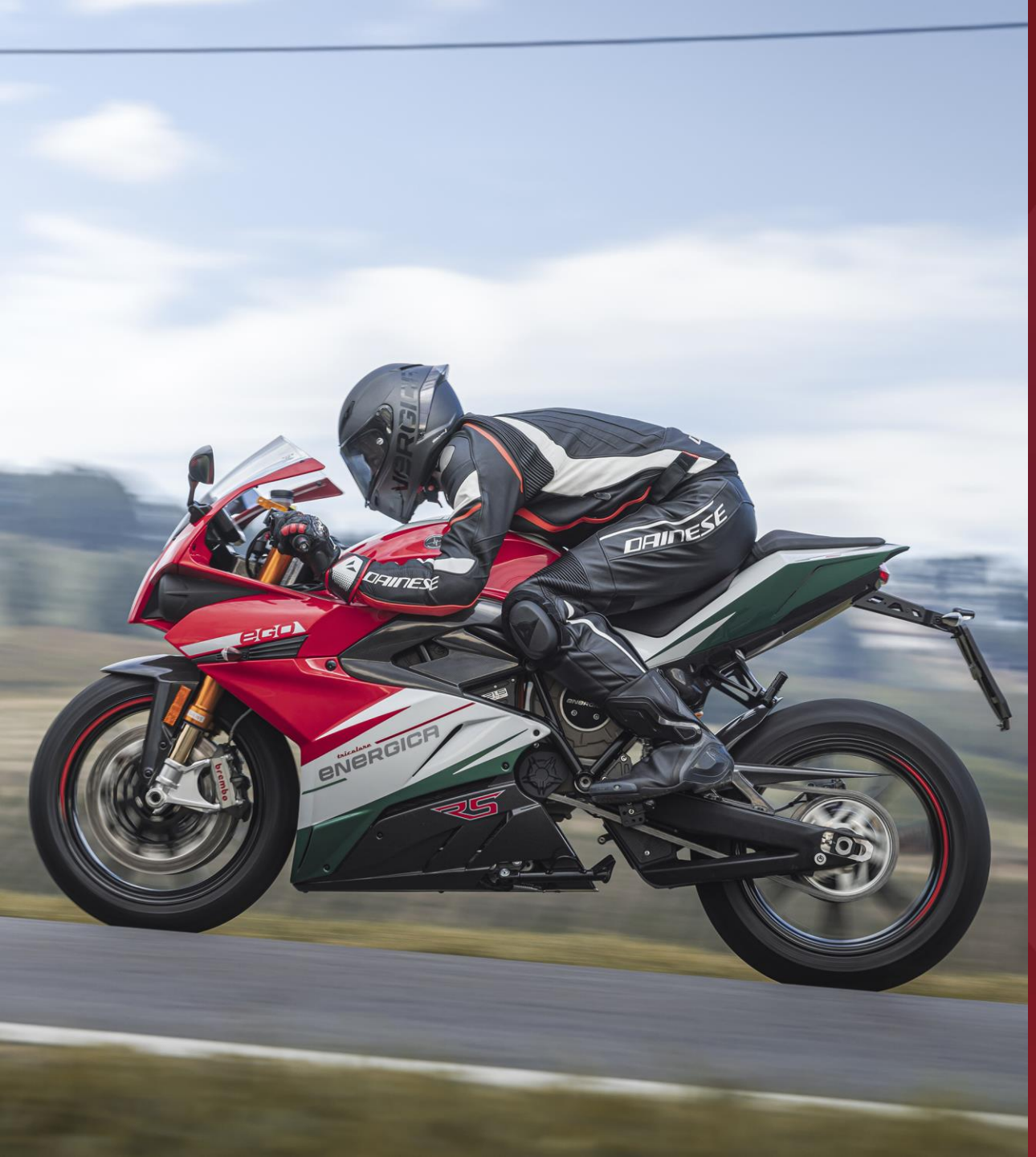

Automotive

Driving design and engineering excellence

Energica Motor Company S.p.A.

All-electric motorcycle manufacturer Energica revs up performance for key design and simulation workloads with leading-edge Lenovo workstations, laptops, and servers.

Lenovo

1

Who is Energica?

Energica Motor Company S.p.A. is a leading company for high-performing electric motorcycles and system integration for electric vehicles (EVs). Born in 2009, the company is headquartered in Modena, the hub of the country's world-renowned motor industry.

Every Energica motorcycle is a marvel of modern technology and high-performance engineering. Its products are widely considered to be the best full-production electric motorcycles available on the market today.

ENERGICA

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The Challenge

To maintain its hard-won reputation for innovation and excellence, Energica counts on rigorous design, research and development (R&D), and quality control processes. Its teams push themselves constantly to refine existing product designs and bring cutting-edge models to market.

Computer-aided design (CAD) and simulation are hugely important for supporting this work. They're used to design and test virtual models of new components, assemblies, and even entire motorcycles, allowing Energica to see how they will perform and can be further improved. These applications generate enormous quantities of data for processing, analysis, and storage—making high performance and capacity must-haves for the company's IT landscape.

In 2020, Energica decided to renew its fleet of workstations and laptops, used largely by engineers and mechanics. Speed was of the essence: the company wanted to get the new hardware up-and-running as quickly as possible, so that users could continue vital work without delay.

But this was at the height of the COVID-19 pandemic, when demand for computer equipment was sky-high and supply chains were stretched to their limits. This left Energica looking at long lead times with many major hardware providers. The company urgently needed a partner who could deliver the technology it needed, without delay.

“We were looking for lightweight and high-performing mobile workstations. As we have very aggressive product development timelines, we also needed the new hardware quickly, to ensure our processes stayed on track.”

Simone Boninsegni
Head of Mechanical Design, Energica Motor Company S.p.A

A new computing landscape takes shape

Energica reached out to Lenovo, as the two companies had a history of working together. Their account manager immediately went into action, establishing a remote team to design and test a solution that met the company's technical and commercial specifications.

That groundwork proved successful, and Energica moved straight ahead to secure a supply of workstations, laptops, and monitors. They include Lenovo ThinkPad P15 mobile workstations with pro-level NVIDIA Quadro RTX graphics cards and Lenovo ThinkStation P350 Tower workstations for the company's mechanical engineering and design departments. Lenovo ThinkPad T15p laptops were delivered to electronics engineers, rounded out with Lenovo ThinkPad P1 laptops for the project management team.

Hardware

Lenovo ThinkPad P1
Lenovo ThinkPad P15
Lenovo ThinkPad T15p
Lenovo ThinkStation P350
Lenovo ThinkVision T Series monitors
Lenovo ThinkEdge servers
Lenovo ThinkSystem DE Series

Services

Lenovo Premier Support

“We use Lenovo technology to support a variety of applications and workloads,” notes Boninsegni. “That includes the mechanical design of our motorcycles, along with electronics, hardware, and software. More recently, we’ve been making use of the new workstations to run more numerical calculations, including computational fluid dynamics (CFD) simulations, which are critical to understanding how a vehicle’s aerodynamics will work.”

Expanding on this initial engagement, Energica has subsequently partnered with Lenovo to acquire servers for its data center. The company now uses small but powerful Lenovo ThinkEdge servers for data management and processing, along with Lenovo ThinkSystem DE Series storage. Energica also has the advantage of Lenovo Premier Support, gaining a single point of contact for efficient troubleshooting and issue resolution.

“Lenovo went above and beyond to deliver for us during a very difficult time. The team did a great job identifying solutions that not only fit our technical requirements and budget, but also ones that were in supply and could be delivered on time.”

Simone Boninsegni
Head of Mechanical Design, Energica Motor Company S.p.A

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Results

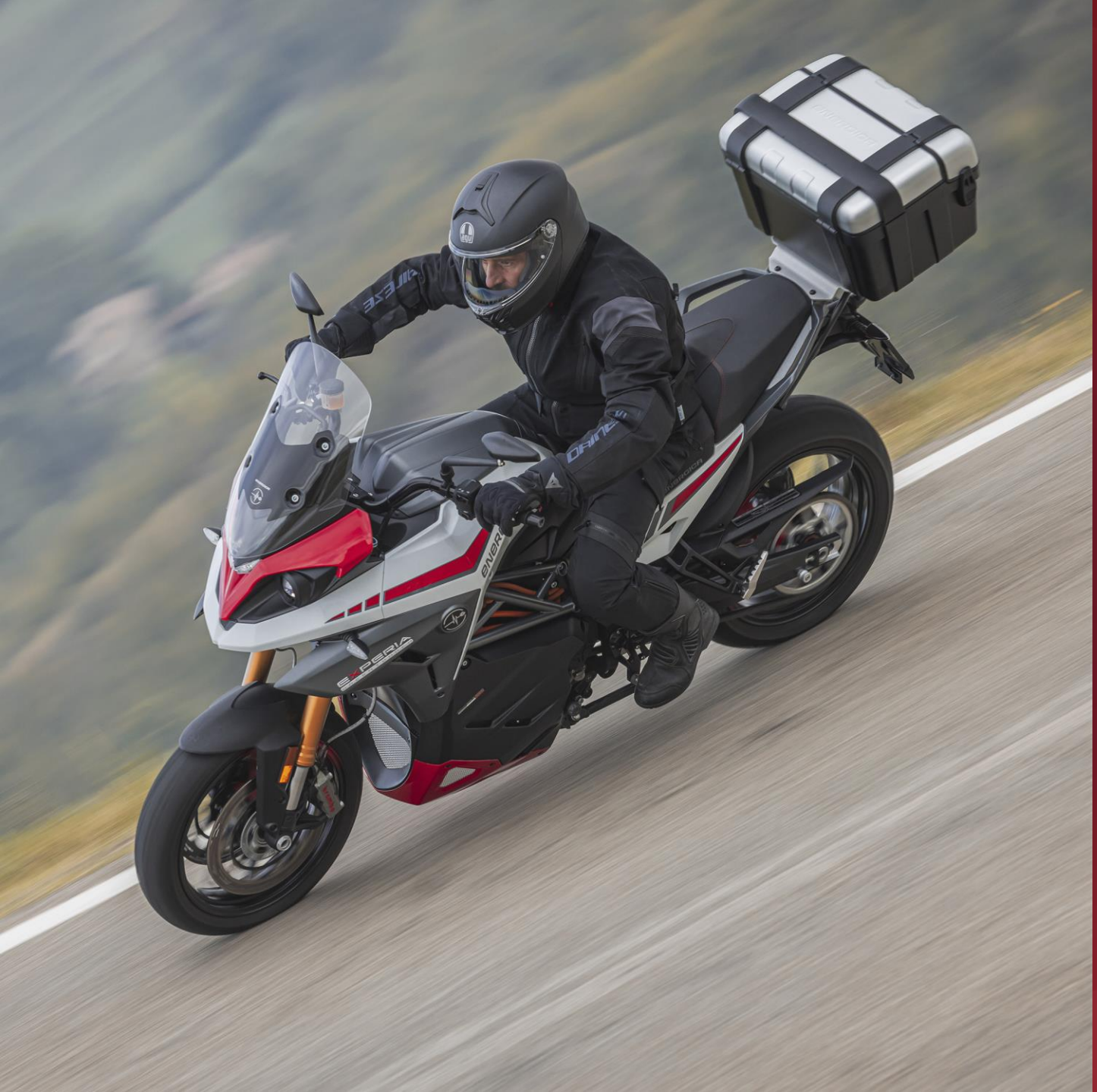
By teaming up with Lenovo, Energica was able to meet its immediate need for high-performing PCs and laptops, ensuring its teams had the equipment they needed to keep essential design, engineering, and R&D work on track.

Powerful Lenovo hardware has made a big difference to mechanical and electronic design processes, allowing Energica to run more detailed simulations and produce more precise 3D designs.

Boninsegni elaborates: “We’ve been able to deepen parts of our CFD calculations. This gives us better insight into how certain components and models will perform, so we can be more confident that components will be compatible and meet safety and performance standards. We can also now render 3D images in more detail, which makes it easier to notice any defects in advance, making the overall design process more efficient.”

Ultimately, Energica has gained something even more valuable than high-performing hardware. With Lenovo, the company now has a single, dedicated provider for both PC and data center components, all wrapped up with responsive support—a partnership that promises to keep Energica in the lead on technology innovation.

- Secured critical hardware quickly at a time of historically high demand
- Teams can run more complex simulations and produce more detailed designs
- Gained a single point of supply and support for both PC and data center hardware



“We are very happy with both the performance of Lenovo’s technology and the quality of service they provide. We now work with a team that spans Intelligent Devices and Infrastructure Solutions, and also make use of Lenovo Premier Support. This approach is very effective, and we look forward to building on this partnership to power even greater improvements and innovation.”

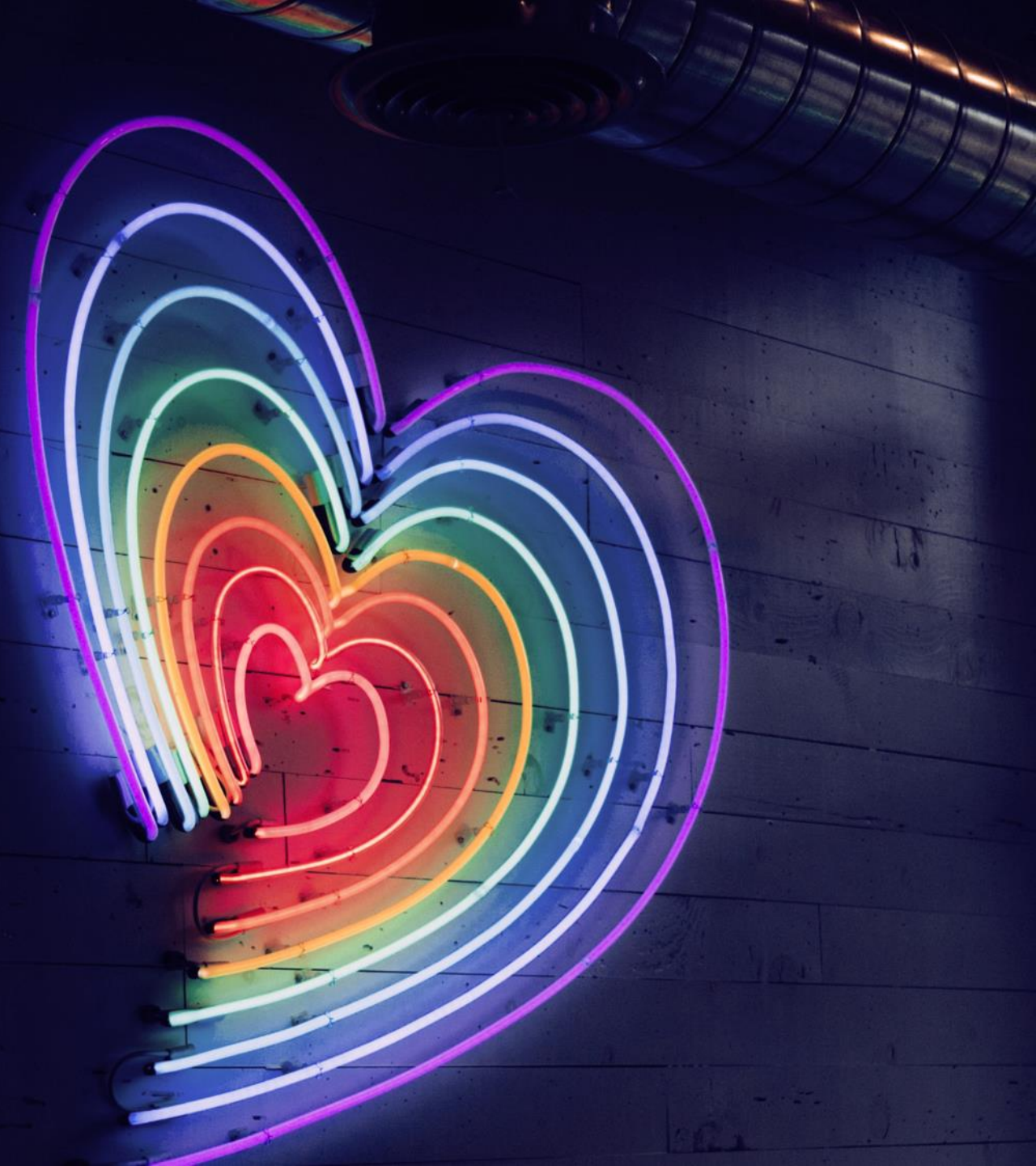
Simone Boninsegni
Head of Mechanical Design, Energica Motor Company S.p.A

Why Lenovo?

Lenovo was able to meet Energica's requirements for high performance and reliability at a cost-effective price, and could guarantee the delivery of its products in an accelerated time frame. These factors combined gave Lenovo the ultimate edge on other hardware providers.

Performance testing played a particularly crucial role in convincing Energica to go with Lenovo, offering first-hand insight into the proposed hardware's capabilities. During tests, the Lenovo team made use of Lenovo Performance Tuner software to dynamically optimize application settings including visual performance and effects, process priority, and processor affinity. This significantly accelerated processing times for a number of workloads, putting Lenovo's hardware well ahead of the pack.

Energica's partnership with Lenovo also puts the company in pole position to take advantage of cutting-edge technology. Energica is already evaluating Lenovo ThinkReality, an enterprise artificial and virtual reality (AR/VR) platform, as a potential addition to its IT landscape. Teams would be able to use Lenovo VR headsets to virtually review models of components and assemblies, bringing a new dimension to product design and testing.



How do you keep design, engineering, and R&D work on track?

Fast-tracking the delivery of workstations, laptops, and monitors at the height of the pandemic with Lenovo.

Explore Lenovo Workstations