PREDATOR CYCLING CUSTOMER STORY

Predator Cycling, a manufacturer and designer of high-end custom-built carbon fiber bicycles, have forged new technology concepts in bicycle manufacturing. For the past 15 years, the team has not only designed all of their frames and conducted all of their simulation, rendering and manufacturing process in house, but they also manufacture, build and simulate all of the machinery and equipment used to build their custom bikes. Any chance to optimize these processes throughout the design and production lifecycle is essential.

The real power is that our team can run CFD analysis, be modelling and screensharing on a video call, all simultaneously.

Aram Goganian, Co-founder

The Challenge: Increasing complexity of design workflows makes bringing new products to market difficult

The Predator Cycling team recently worked on their most innovative project to date—their new RF20 frame. With the project in research and development stages for years, the team wasn't sure the new road bike would ever see the light of day. Increasing costs of materials and the complexity of the design ultimately impacted the manufacturing and assembly of the bike. Predator knew they needed tremendous performance and efficiency gains to bring the RF20 to market at a competitive price.







Solution

Predator Cycling found the solution they needed to bring the RF20 frame to life by leveraging the sheer power and speed of Lenovo's ThinkStation® P620. Built with NVIDIA's new RTX A6000 GPU and AMD's ThreadRipper™ PRO processor, the ThinkStation P620 can handle real-time computing and extreme multitasking, allowing Predator to efficiently accelerate their workflows.

Built with the ability to process more complex models, render and run simulations in real-time, and streamline their manufacturing processes, the ThinkStation P620 gave Predator Cycling the edge they needed to bring their innovative project to life.

THE POWER TO RELEASE THEIR POTENTIAL

Improving design-to-manufacturing turnaround

Even beyond their newest product offering, Predator Cycling has been able to use the efficiency gained from the ThinkStation P620 to grow and scale their business. Since each of their bikes are custom-built, customers needed real-life representations to select their components and finishes. To accomplish this previously, the Predator team built physical prototypes that took months to complete from start to finish. Now with the power and speed of the P620, they can show customers bike renders long before they get to production or even physical prototyping. Thanks to the instant feedback they receive from customers, they can go from prototyping straight to testing—providing them with an estimated time savings of 12-16 weeks in their go-to-market timelines.

e efficiency gains are only just the beginning e-changing power of the ThinkStation P620 A6000 GPUs, Predator Cycling is now free full innovative potential.

Application performance gains

Predator has also drastically improved internal workflows on simulations they're running as well as more efficient validation and testing. They've seen performance gains of 2-6x across a number of key applications including Luxion Keyshot®, ANSYS® Discovery™, ANSYS® Fluent®, and Autodesk® Fusion 360®.

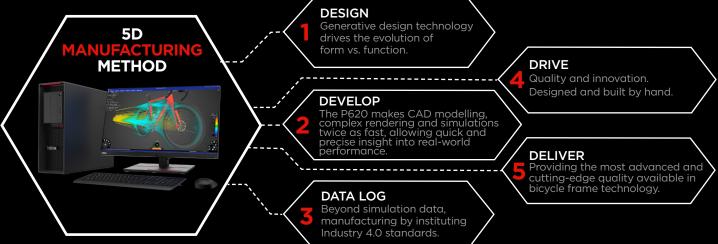
Up to Cores **NVIDIA**. Up to ThinkStation Memory NVIDIA RTXA6000 Up to **20TB** Up to Storage 48GB **GPU Memory**

with ECC

ThinkStation

P620





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