

# Lenovo ThinkStation P620

for Ansys high-performance  
computing

Lenovo

## Workstation Solution Brief

Ansys develops some of the most widely used multiphysics engineering simulation software solutions for product design, testing, and operation. With the Lenovo ThinkStation P620, designers and engineers can run complex simulations earlier in the design process to test and validate design ideas without tying up valuable data center resources.

Ansys high-performance computing (HPC) solutions play a critical role in engineering simulation—enabling designers and engineers to maximize the performance of Ansys® Fluent® and Ansys® Mechanical™ solutions on Lenovo Workstations.

### ThinkStation P620

Redefining power, speed, and performance on the desktop for Ansys HPC.

Lenovo has partnered with AMD to create the world's first and only AMD Ryzen™ Threadripper™ PRO workstation: the ThinkStation P620. Delivering dual-CPU performance in a single-processor system, the P620 is performance-tuned, and Ansys certified for multithreaded application environments. With up to 64 cores, 128 PCIe lanes (Gen 4), 1TB of memory, and an 8-channel memory architecture, designers and engineers now have access to datacenter-like power on their desktop in a compact and economical package. Backed by enterprise-level features for seamless security, manageability, and support, the ThinkStation P620 is an ideal solution for enterprises and SMBs creating mission critical CFD and Mechanical simulations with Ansys.

**ThinkStation** P620

**AMD**  
**THREADRIPPER**  
**PRO**



# Smarter redefines your potential

## Predator Cycling Customer Story



Lenovo

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.

### 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 in real time, run simulations, and streamline their manufacturing processes, the ThinkStation P620 gave Predator Cycling the edge they needed to bring their innovative project to life.

### 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 Ansys Fluent.

### Recommended Config ThinkStation P620

For designers and engineers who need fast performance on the desktop from Ansys CFD and Mechanical solutions.

- CPU:** AMD Ryzen Threadripper PRO - 3995WX (64 cores) or 3975WX (32 cores) (depending on solver and workload)
- GPU:** NVIDIA RTX™ A2000 (General CAD) NVIDIA RTX A6000 (VR and rendering)
- Memory:** 64GB up to 1TB (depending on workflow)
- Storage:** 1TB PCIe M.2 Storage
- Warranty:** 3-Year
- Monitor:** Dual ThinkVision P27h

Contact us for special pricing



Discover more about the ThinkStation P620, visit: [www.lenovo.com/thinkstationP620](http://www.lenovo.com/thinkstationP620)

ANSYS

AMD

NVIDIA