

EXPERIENCE REAL POWER

HOW TECHNOLOGY
BRINGS A VISION TO LIFE



Lenovo



OFFICIAL WORKSTATION
PARTNER

DRIVEN BY DESIGN

ASTON MARTIN HAS A DISTINGUISHED HERITAGE OF HIGH PERFORMANCE AND LUXURY QUALITY

Alongside the company is a partner with technology just as sophisticated and impressive in its own field.

Lenovo's workstations power Aston Martin design, styling and engineering. But why did the company choose Lenovo over other possible partners?

- The raw performance of Lenovo technology
- Consistency, reliability, and visibility into future hardware developments
- Unmatched experience - in technical hardware and in close working relationships

And, significantly, a commonality of design goals and language.



Lenovo ThinkPad P15



HAND-BUILT

STARTS WITH A SCREEN AND CURSOR



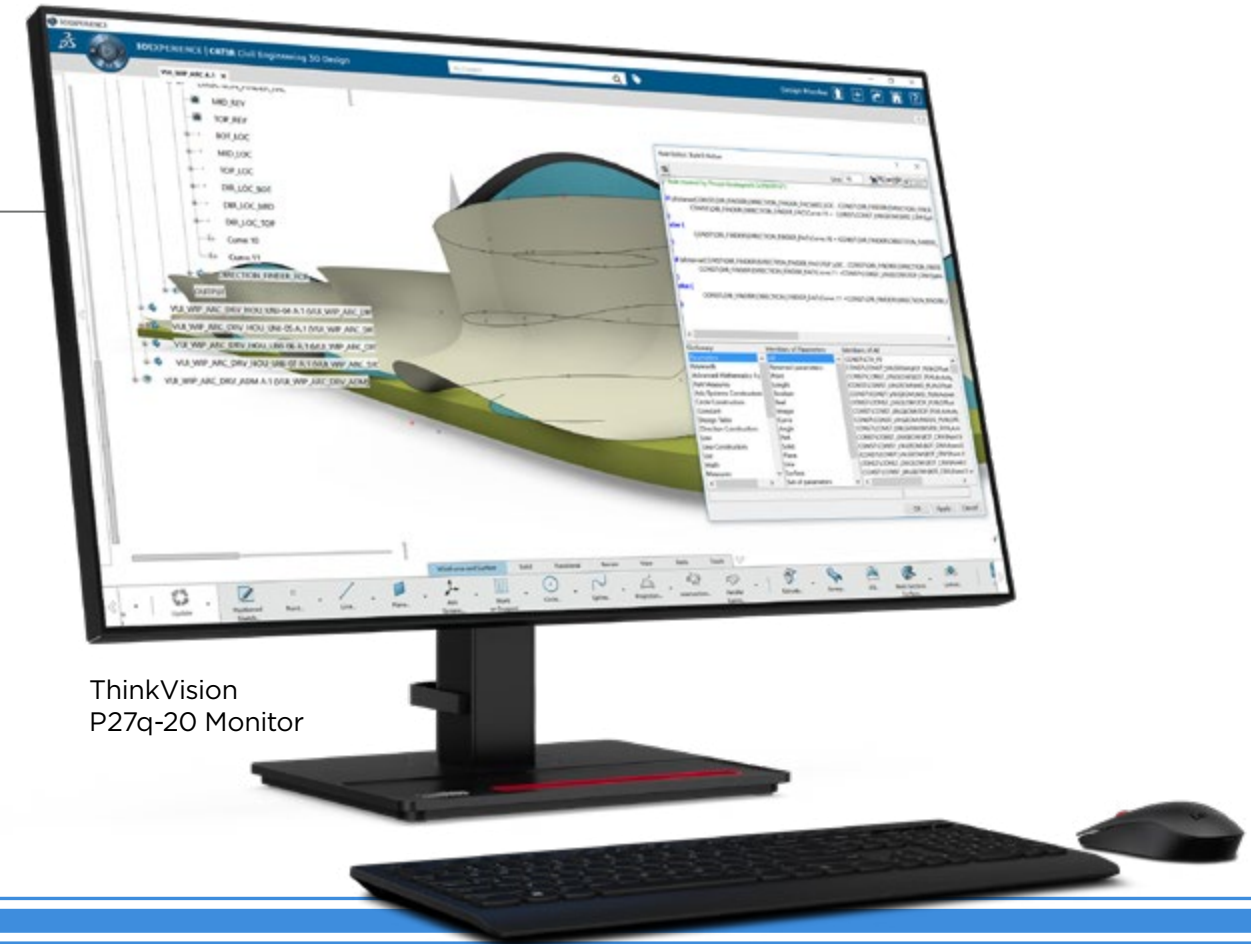
Lenovo
ThinkStation P920

Both organizations are obsessed by design. Superb styling is what the customer sees – brilliant design makes it possible.

Lenovo Workstations are deployed across a broad range of workloads, from concept design and CAD, CAE to simulation, to Product Lifecycle Management, and beyond.

Aston Martin's engineers and designers depend on the power and performance of Lenovo Workstations throughout the design process.

From sketching and ideation, surfacing and modelling, to graphic design and full renders, Lenovo's workstation portfolio enables talented individuals to unleash their creativity and inventiveness.



ThinkVision
P27q-20 Monitor

- Blending the digital and physical sides of designing, modelling and rendering to ensure a seamless merging of media – from milled components to rendered objects, and from a scanned copy to a virtual configurator
- Combining hand-crafted designs with state-of-the-art digital tools to achieve a high degree of detail
- Ensuring every aspect of fit, finish and complex surfacing can be produced in near-perfect, real-world products

DESIGN IS A FLUID PROCESS

Part of the design language at Aston Martin is to challenge both the physical and digital tools available, pushing beyond to achieve design perfection. There's a constant transition from virtual to reality and back.

Designers are free to experiment with ideas, working without the fear of failure. The advantage of Lenovo Workstations is that iterations, decisions and adjustments can occur fluidly.

They can inspect, critique, adjust, and continually improve designs. Map physical objects to inspire new digital ideas. Test their concepts under a range of simulated conditions.

Speed enables more fresh concepts. More innovation. More opportunities to 'fail forward' in search of perfection.

Ultimately, that speed means faster time to market and overall greater ROI.



Lenovo ThinkPad P1



BRINGING DESIGN TO LIFE

ASTON MARTIN IS RENOWNED FOR WORKING WITH THE HIGHEST QUALITY MATERIALS, SCRUTINIZING THE SMALLEST DETAILS AND FINE-TUNING PERFORMANCE



Now Lenovo Workstations support every stage of its lifecycle.

The company's three main workloads place heavy demands on the technology. Lenovo Workstations are up to the challenge, matching each team's unique needs.

Lenovo Performance Tuner allows Aston Martin to optimize each workstation with customized application-based settings specific to each workflow, eliminating interruptions and improving productivity.

Design and styling

From concept design, to iterations, each part must be created across teams. By mixing creative flair with engineering know-how, Aston Martin maximizes the value of its Lenovo Workstations.

Engineering validation

High-power processing of the complex datasets behind CAD and CAE designs is critical to determine the feasibility and validation of designs – shaping what's possible.

Prototype modelling

Extreme power is necessary to customize details for final design reviews, and assisting customers with an experiential configurator. Seamless collaboration and shared VR experiences play an essential role.

“

YOU CAN'T DESIGN OR BUILD CARS WITHOUT WORKSTATIONS

”

Steve O'Connor,
Director of IT at
Aston Martin



Lenovo ThinkStation P520
with ThinkVision P24q Monitor

A LENOVO WORKSTATION FOR EVERY WORKFLOW

ASTON MARTIN LEVERAGES THE FULL RANGE OF THE LENOVO WORKSTATION PORTFOLIO



From professional ThinkVision P Series displays to ThinkStation desktops and ThinkPad P Series mobile workstations, built with the latest Intel® Core™ and Xeon® processors and high-powered NVIDIA® Quadro RTX™ graphics.

All Lenovo Workstations combine top-of-the-line components with intelligent designs, to deliver the raw power necessary to handle the most demanding workloads across a wide spectrum of industries including

architecture, engineering and construction; product development; oil and gas; media; finance, and more.

Lenovo Workstations deliver outstanding efficiencies¹:

- Proven to run design tasks up to 30% faster than high-performance PCs
- 350% better for 3D graphics
- 50% better for CAD



The latest NVIDIA Quadro RTX professional graphics technologies mean:

- **Pinpoint accuracy** – rendering even complex graphics with ease
- **Better decision-making** – with more realistic simulation of 3D models
- **Effortless analysis of even highly-detailed datasets** – thanks to a large graphics memory

THE RIGHT WORKSTATION FOR THE JOB

LENOVO WORKSTATIONS ARE #1 FOR RELIABILITY AND UP TO 20% MORE RELIABLE THAN THEIR COMPETITORS²



Lenovo ThinkPad P15v

Remote Workstation Solution

Combine a mobile workstation with TGX Remote Workstation Software and teams can share powerful, high-end host workstation resources across the business.

Lenovo ThinkStation P620 with ThinkVision P27q Monitor



Desktop Workstations

High performance desktops, built to last, with unmatched reliability and patented cooling design. Customizable, modular formats with tool-less access means devices can be easily upgraded to meet a range of business needs.

Mobile Workstations

Users depend on the reliable, high-performance technology of the ThinkPad P Series to handle any computer-intensive task – from conceptual design, to construction documentation – wherever their work takes them.

A black Lenovo ThinkPad P15 laptop is shown open, displaying a close-up image of a car's headlight on its screen. The laptop is resting on a stack of tires. A red triangle graphic is positioned above the laptop, containing the text 'Lenovo ThinkPad P15'.

Lenovo
ThinkPad P15

WORK IN THE TOUGHEST ENVIRONMENTS

WHETHER CONSTRUCTION SITE OR PRODUCTION LINE

ISV-Certified

Every Lenovo Workstation – desktop and mobile – is tested and proven to provide optimal performance when running industry-specific software spanning software applications from Autodesk, Adobe, Dassault Systemes and more.

MIL-SPEC features

Tested under the most extreme conditions, Lenovo Workstations will work in the toughest environments, whether construction site or production line.

Lenovo Performance Tuner

With Lenovo Performance Tuner, specific CPU cores can be reserved just for the application being worked with. That means the application always performs at the maximum, regardless of what the rest of the system is doing. And it can dynamically change when applications are switched.

On a high-end system with multiple CPUs, it can even optimize multiple applications at the same time on different processor groups. Regardless of whether your application prefers single-threading or multi-threading, the Lenovo Performance Tuner has the ability to optimize performance.

LEARN MORE

LEARN MORE ABOUT THE ROLE WORKSTATIONS PLAY AT ASTON MARTIN AND WHY LENOVO IS THE OFFICIAL WORKSTATION PARTNER OF ASTON MARTIN



Website:
Experience Smarter Performance.
Expect Outstanding Design.



Point of View:
Elements of Innovation



Ebook:
Driving New Experiences



Lenovo



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¹ Independent benchmark tests. Workstation vs PC: In the Race to Meet Design Deadlines, Which Option Wins? Cadalyst.

² The TBR Reliability Study found that Lenovo Workstations have the lowest repair rate among top competitors.

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