



NVIDIA RTX

Dassault Systèmes SOLIDWORKS



Image by Daniel Simon LLC

NVIDIA RTX Accelerates SOLIDWORKS

SOLIDWORKS taps into the power of **NVIDIA® RTX™** to speed up product design and visualization workflows. With RTX support, SOLIDWORKS delivers a faster, more interactive experience with outstanding performance and capabilities, including:

- > GPU-optimized pipeline for a fluid CAD experience and fast manipulation of even the largest assemblies at full-model fidelity.
- > GPU-accelerated high-performance shading, full-scene anti-aliasing (FSAA), order independent transparency, and RealView.
- > Immersive model interaction in VR with eDrawings Pro and photorealistic VR panoramas in SOLIDWORKS Visualize.
- > Improved model display with GPU-based occlusion-culling and silhouette-edges, and quick configuration switches.
- > 8K multi-display support for enhanced productivity, viewport size, and precision.
- > Enhanced graphics performance setting leverages GPUs for smoother pan, zoom and rotation of parts and assemblies, and display of drawings that have shaded or draft quality views.
- > Near real-time ray tracing, **NVIDIA PhsX®** Simulation, **NVIDIA vMaterials**, and AI denoising in SOLIDWORKS Visualize, with up to 15X¹ faster rendering performance than CPU.

Solutions for SOLIDWORKS

A typical user's workflow in SOLIDWORKS can span across 2D / 3D design, electrical design, structural simulations, flow simulations, and creating 3D visualizations of the final product. NVIDIA RTX GPUs, architected specifically for ray-trace rendering with the introduction of dedicated ray-tracing cores as an integral part of the hardware design, have a profound impact on how product designers, engineers, and manufacturing professionals interact with their designs. NVIDIA provides a wide range of RTX-enabled solutions for SOLIDWORKS users from desktop and mobile to the data center and cloud with **NVIDIA RTX Virtual Workstation (vWS)** software². With up to 96GB of GPU memory available³, NVIDIA RTX provides the power you need for your most demanding workloads.

Learn more about NVIDIA RTX solutions at www.nvidia.com/rtx

Learn more about SOLIDWORKS at www.solidworks.com

¹ Performance results may vary depending on the scene.

² NVIDIA RTX Virtual Workstation (vWS) software is supported with NVIDIA A40, RTX A6000, Quadro RTX™ 6000, and Quadro RTX 8000 GPUs.

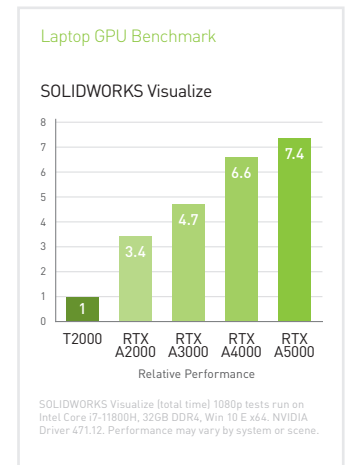
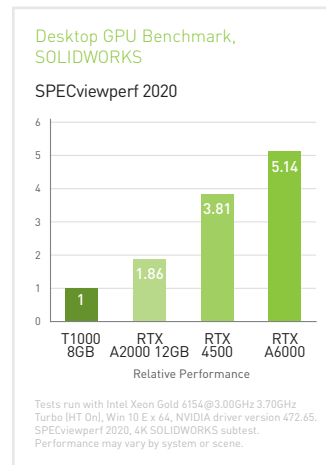
³ Two RTX GPUs connected with NVIDIA NVLink® provide a combined 96GB of total GPU memory. NVLink sold separately.

“When coupled with NVIDIA RTX, SOLIDWORKS Visualize provides the industry’s fastest and easiest way to achieve photo-quality imagery, animations, immersive content, and more—helping to cut costs and speed time to market.”

– Brian Hillner, Senior Product Portfolio Manager, SOLIDWORKS Visualization

SOLIDWORKS Visualize has been one of the first product design-focused visualization tools to harness the power of the GPU. It has also been one of the first to add support for NVIDIA RTX and supports multiple GPUs. SOLIDWORKS Visualize is built upon NVIDIA CUDA technology and is tuned to get the best performance with NVIDIA RTX GPUs and associated optimized drivers.

NVIDIA RTX professional graphics solutions are certified and recommended by Dassault Systèmes. Close collaboration during product development guarantees the stability and reliability of the platform—just the way you expect from day one.





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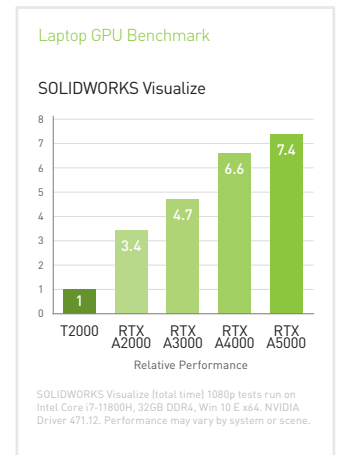
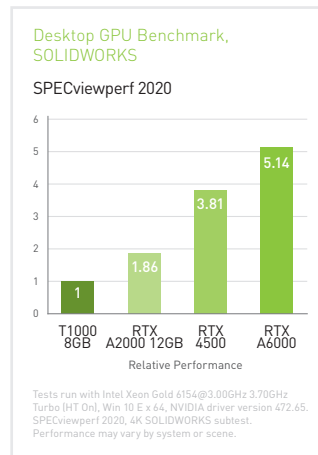
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