PTC CREO AND NVIDIA
THE CLEAR CHOICE

PTC Creo® Parametric™ empowers designers to work in a more immersive modeling environment.

As a result of the strategic partnership with PTC, NVIDIA technology enables realistic materials (metals, glass, plastics, etc.) that are closely matched to final renderings. GPU-accelerated performance for ambient occlusion, active component display, and order independent transparency, helps PTC Creo users experience enhanced productivity when orienting models and improved usability in assemblies. If you are transitioning to PTC Creo, you'll want NVIDIA® Quadro® GPUs to take full advantage of performance scaling in addition to the new graphics capabilities.

Image Quality

Quadro GPU solutions with PTC Creo Parametric help eliminate visual artifacts so you can work with the most intricate design details—without sacrificing performance. Up to 32x full-scene anti-aliasing (FSAA) dramatically reduces jagged edges ("jaggies") in real-time at high resolutions, so you can see your designs with smooth, accurate edges. With Quadro powering PTC Creo Parametric's shaded-with-edges mode you get insights into your designs without sacrificing performance.

NVIDIA GPUs help designers visualize realistic models in their Creo viewport without waiting for final rendering

Performance

The latest Quadro graphics cards provide exceptional performance in Creo. NVIDIA Quadro GPUs free up CPU resources to do the work they're best suited for – I/O, running the operating system and multi-tasking. With built-in memory and dedicated graphics processing, Quadro professional graphics deliver rich, fully interactive performance.

Increased graphics performance required by new technologies such as 4K monitors and Virtual Reality for professional design workflows, is leading designers to demand the power and reliability of Quadro GPUs more than ever.
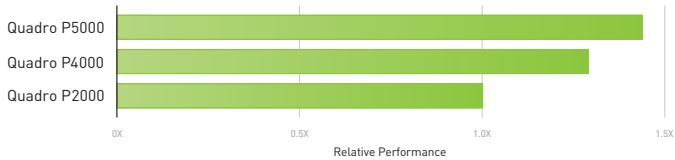
NVIDIA GRID

When working with their design and engineering tools, PTC Creo users demand a great visual experience. However, until recently, the benefits of graphics virtualization weren't accessible to designers and engineers at manufacturing companies because a satisfactory user experience with their 3D product design software simply wasn't possible in a virtualized IT environment. With NVIDIA GRID™ technology, Creo users can leave behind unacceptable levels of lag and display degradation and fully leverage all the benefits of accelerated 3D graphics virtualization.

NVIDIA GRID is the first virtualized GPU that delivers a true PC experience from the cloud.
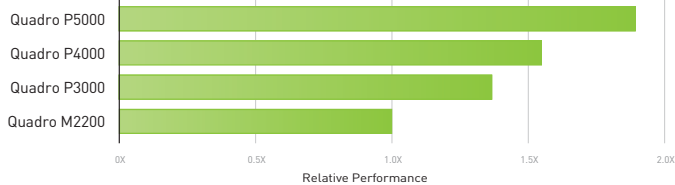
Certification

All NVIDIA professional graphics solutions are certified and tested by PTC and NVIDIA, so they'll work perfectly from day one. Use Quadro certified drivers for PTC Creo Parametric for performance and stability you can depend on.

NVIDIA QUADRO GPUs FOR DESKTOP WORKSTATIONS
PTC CREO

|	Relative Performance
Quadro P5000	~1.4X
Quadro P4000	~1.15X
Quadro P2000	~1.0X

Relative Performance
0X — 0.5X — 1.0X — 1.5X

Tests run on a workstation with Intel Xeon 2.6GHz (3.6GHz Turbo), 32GB RAM, running Win 10 64-bit, driver version 375.86. Performance testing completed with publicly available SPECviewperf® 12 benchmark information.

NVIDIA QUADRO GPUs FOR MOBILE WORKSTATIONS
PTC CREO

	Relative Performance
Quadro P5000	~1.9X
Quadro P4000	~1.55X
Quadro P3000	~1.35X
Quadro M2200	~1.0X

Relative Performance
0X — 0.5X — 1.0X — 1.5X — 2.0X

Tests run on a workstation with Intel Core i7-4790S 3.2GHz (4.0GHz Turbo), 8GB RAM, running Win 7.1 64-bit, driver version 368.58. Performance testing completed with publicly available SPECviewperf® 12 benchmark information.
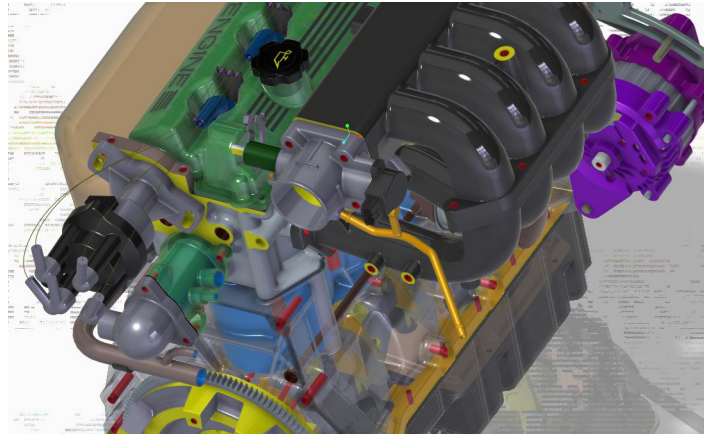
NVIDIA GRID enables multiple users to access the power of a single GPU without compromising their graphics experience.

RECOMMENDED GRAPHICS SOLUTIONS FOR PTC CREO

USAGE	Small to medium assemblies with simple parts	Large assemblies with simple parts or small assemblies with complex parts	Large assemblies with complex parts
For Desktop Workstations	**Quadro P2000***	**Quadro P4000***	**Quadro P5000***
GPU MEMORY	5 GB GDDR5	8 GB GDDR5	16 GB GDDR5X
REPLACES	Quadro M2000	Quadro M4000	Quadro M5000
For Mobile Workstations	**Quadro P3000***	**Quadro P4000***	**Quadro P5000***
GPU MEMORY	6 GB GDDR5	8 GB GDDR5	16 GB GDDR5
REPLACES	Quadro M3000M	Quadro M4000M	Quadro M5000M

* Please contact your software provider for the latest information on application certifications and support.
To learn more, visit **www.nvidia.com/creo**

PTC and NVIDIA invest heavily in certifying NVIDIA professional graphics solutions with PTC Creo to ensure customers get the performance and stability they expect. As part of the PTC Creo Certification Program, NVIDIA professional graphics solutions are thoroughly tested, specifically for the current release. For the latest updates on software certifications and support, please visit the PTC Creo platform support website.