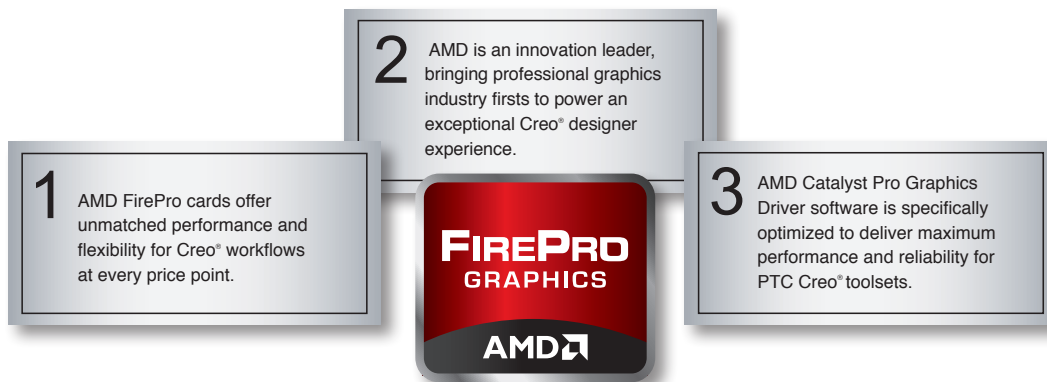# Unbeaten Workstation-class 3D CAD Experiences with AMD FirePro™ professional graphics and PTC Creo®

"Creating innovative products requires innovative graphics design technologies. PTC works closely with AMD to provide Creo® users with the reliability, performance and workflow innovations they need. AMD FirePro™ professional graphics cards are a great choice for Creo® users who value a superb workstation-class design experience at a compelling price."

– Mike Campbell, GM of MCAD Segment, PTC

3 Great Reasons to Choose AMD FirePro™ Professional Graphics:

1 AMD FirePro cards offer unmatched performance and flexibility for Creo® workflows at every price point.

2 AMD is an innovation leader, bringing professional graphics industry firsts to power an exceptional Creo® designer experience.

3 AMD Catalyst Pro Graphics Driver software is specifically optimized to deliver maximum performance and reliability for PTC Creo® toolsets.
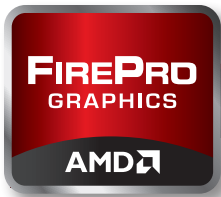
AMD and PTC Partner to Innovate 3D CAD Workflows:

The partnership between AMD and PTC aligns engineering efforts and ensures maximum productivity for technical designers and engineers running Creo® on AMD FirePro professional graphics cards.
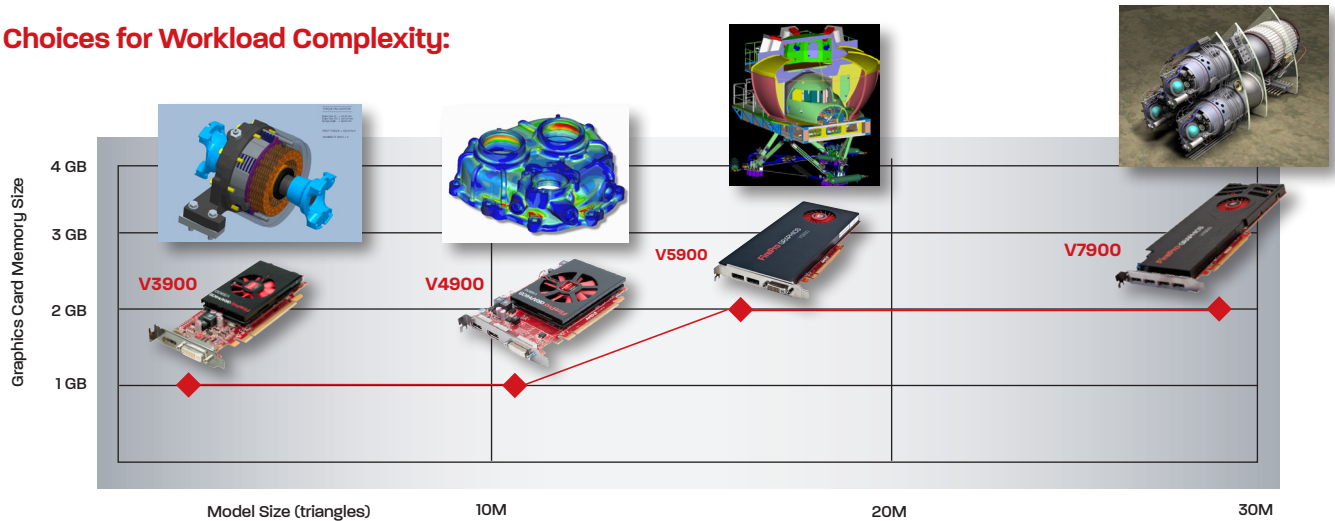
"OIT" – GPU-Accelerated Transparency mode in Creo® Parametric 2.0 – available ***ONLY*** when running AMD FirePro™ professional graphics

	"OIT" Function	End User Experience	Workflow Benefit for Creo® Parametric® 2.0 users
OIT – "Order independent transparency"	New GPU-accelerated transparency mode	Over 900% faster frame rates for blended transparency mode in Creo® 2.0*	- Smooth viewport interactivity increases end-user productivity - Better design awareness can improve designer intuition and overall decision-making effectiveness
	GPU-accelerated "Pixel-accurate" depth sorting	Accurate visual representation of the geometry	- Proximity and collision analysis is simplified and made more efficient - Better design awareness can improve designer intuition and overall decision-making effectiveness - Fewer visual artifacts help improve designer intuition and overall decision-making effectiveness

* vs. "blended" transparency mode in Pro/ENGINEER Wildfire 5. Internal testing on AMD Firepro V7900 under "AMD_FP_Creo_Fraps_Bench" using motorcycle dataset and "shaded" mode

FirePro
GRAPHICS
AMD

Choices for Workload Complexity:

Graphics Card Memory Size

4 GB
3 GB
2 GB
1 GB

V3900   V4900   V5900   V7900

Model Size (triangles)   10M   20M   30M

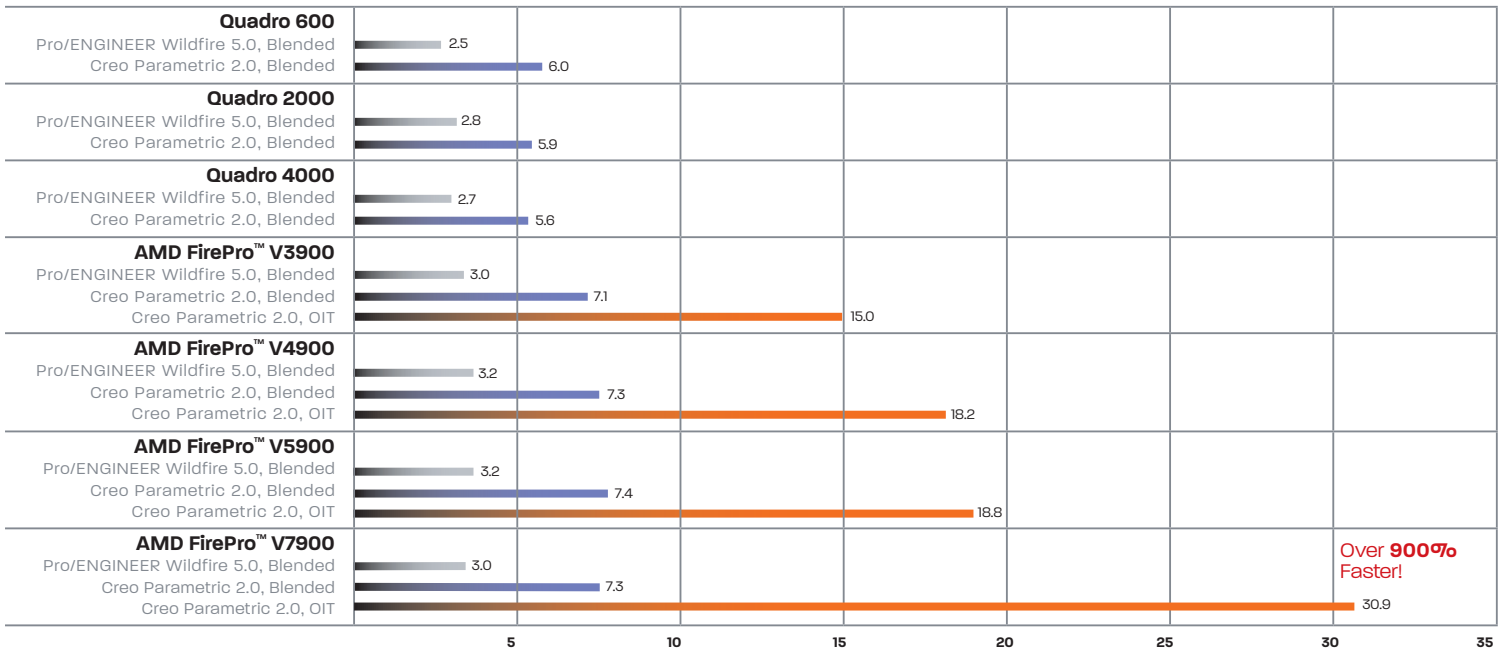http://www.amd.com/us/products/workstation/graphics/tools/pages/tools.aspx
Download the new AMD Memory Viewer tool to see how much GPU memory your datasets are using.
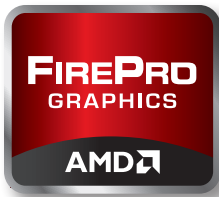
Performance Leadership:

Transparency Performance
Medium-sized dataset, shaded mode. Measured in frames per second. Higher scores=Better user interactivity.)

Pro/ENGINEER Wildfire 5.0, Blended
Creo Parametric 2.0, Blended
Creo Parametric 2.0, OIT

Quadro 600
Pro/ENGINEER Wildfire 5.0, Blended — 2.5
Creo Parametric 2.0, Blended — 6.0

Quadro 2000
Pro/ENGINEER Wildfire 5.0, Blended — 2.8
Creo Parametric 2.0, Blended — 5.9

Quadro 4000
Pro/ENGINEER Wildfire 5.0, Blended — 2.7
Creo Parametric 2.0, Blended — 5.6

AMD FirePro™ V3900
Pro/ENGINEER Wildfire 5.0, Blended — 3.0
Creo Parametric 2.0, Blended — 7.1
Creo Parametric 2.0, OIT — 15.0

AMD FirePro™ V4900
Pro/ENGINEER Wildfire 5.0, Blended — 3.2
Creo Parametric 2.0, Blended — 7.3
Creo Parametric 2.0, OIT — 18.2

AMD FirePro™ V5900
Pro/ENGINEER Wildfire 5.0, Blended — 3.2
Creo Parametric 2.0, Blended — 7.4
Creo Parametric 2.0, OIT — 18.8

AMD FirePro™ V7900
Pro/ENGINEER Wildfire 5.0, Blended — 3.0
Creo Parametric 2.0, Blended — 7.3
Creo Parametric 2.0, OIT — 30.9

Over **900%** Faster!

5   10   15   20   25   30   35

Creo®-Certified AMD FirePro™ Professional Graphics:

THE AMD FIREPRO™ PROFESSIONAL GRAPHICS PRODUCT FAMILY:

Timely qualification and PTC certification of new AMD FirePro™ hardware and device drivers help ensure full compatibility and stellar performance, providing Creo® users with an exceptional workstation-class graphics experience.

Mobility Professional Graphics

For professionals who work with a broad range of applications, data sets and advanced visual effects in a portable form factor

Model Number	Number of Simultaneous Displays Supported	Frame Buffer	Stream Processors	Engine Clock	Memory Bandwidth	Compute Power
AMD FirePro™ M8900	3 undocked	2G GDDR5	960	680 MHz	115.2 GB/s	up to 1310 GFLOPs
AMD FirePro™ M5950	3 undocked	1GB GDDR5	480	725 MHz	57.6 GB/s	up to 696 GFLOPs
AMD FirePro™ M3900	3 undocked	1GB DDR3	160	700 MHz	14.4 GB/s	up to 224 GFLOPs

3D Professional Graphics

For professionals who work with a broad range of applications, data sets and advanced visual effects

Model Number	Number of Simultaneous Displays Supported	Stream Processors	Frame Buffer	Form Factor	Display Outputs	Maximum Resolution	Max Power	Memory Bandwidth (GB/s)
AMD FirePro™ V7900	4	1280	2GB GDDR5	FH/FL 1 slot	4 DP	2560x1600	150w	160
AMD FirePro™ V5900	3	512	2GB GDDR5	FH/FL 1 slot	2 DP, 1 DVI-I	2560x1600	75w	64
AMD FirePro™ V4900	3	480	1GB GDDR5	FH/FL 1 slot	2 DP, 1 DVI-I	2560x1600	75w	64
AMD FirePro™ V3900	2	480	1GB DDR3	HH/HF 1 slot	1 DP, 1 DVI-I	2560x1600	<50w	28.8

To see the complete competitive list of AMD FirePro professional graphics offerings visit:

http://www.amd.com/us/products/workstation/graphics/ati-firepro-3d/Pages/product-comparison.aspx

To learn more about AMD FirePro professional graphics and PTC please visit:

http://www.amd.com/us/products/workstation/graphics/case-studies/Pages/case-studies-ptc.aspx