HCL Technologies CAMWorks®

Accelerating Advanced CAM Software.

AMD **HCL**

New to CAMWorks?

CAMWorks is a parametric, solids-based CNC programming software system with machining intelligence, that can enable users to program smarter and machine faster. CAMWorks is seamlessly integrated into Dassault Systèmes SOLIDWORKS® design environment, helping users to get products to market faster, more efficiently and within budget. CAMWorks can automatically accommodate changes to part models, removing time consuming CAM (Computer Aided Manufacturing) rework. Manufacturers use CAMWorks to automatically calculate the intricate tool paths of CNC machinery.

Machine Faster

Calculating the ideal tool path with CAMWorks is a heavy CPU multi-threaded process. The AMD Ryzen™ Threadripper™ PRO processor is available in 12, 16, 32, or 64 core configurations, and is perfectly suited for every NC tool path calculation workload, from the simplest to the most demanding.

The Ultimate Processor for the Professional Workstation
AMD Ryzen Threadripper PRO 3995WX accelerates computer aided manufacturing.

34:04 MIN COMPLETION TIME.
(**TWO** COMPARABLE PROCESSORS[1])

25:41 MIN COMPLETION TIME.
(**ONE** RYZEN THREADRIPPER PRO 3995WX PROCESSOR[1])

Get the Best Experience with CAMWorks

To get the ultimate performance and reliability, CAMWorks can leverage the power of professional workstations based on AMD Ryzen Threadripper PRO processors. CAMWorks uses the CPU to calculate the tool path and then it moves on to simulate and validate the tool path virtually. This step is critical in identifying any errors before going into production. A faster CPU gets you the results quicker and allows you to address the error sooner.

As CAMWorks is fully integrated within SOLIDWORKS®, a certified, professional graphics card (GPU) is also highly recommended. The entire range of AMD Radeon™ Pro GPUs are fully certified for SOLIDWORKS, helping to power a smooth and reliable CAMWorks viewport experience.

[1]See footnote CPP-69.

The Importance of CPUs in Design Workflows

Powerful multi-core CPUs boost performance and productivity throughout every phase of the design & manufacturing workflow – drafting/design, CAE/simulation, rendering/visualization, CAM/ NC machining, and general multi-tasking. AMD Ryzen Threadripper PRO processors deliver high clock frequencies, high core counts and world-class IPC (Instructions Per Clock), along with industry leadership expandability, security features, and manageability.
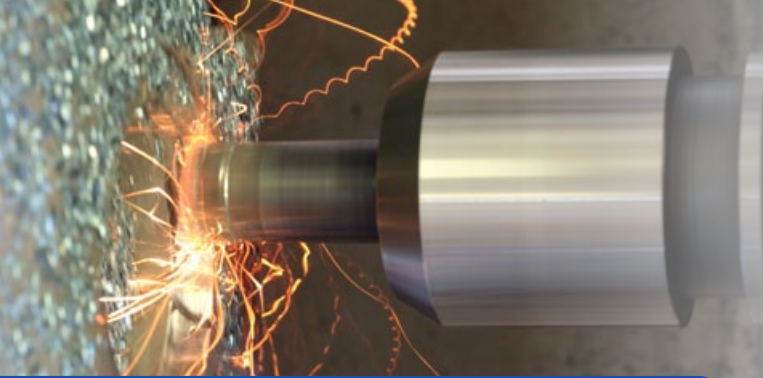
AMD RADEON PRO   **AMD THREADRIPPER PRO**

To learn more about AMD professional CPUs visit: **amd.com/ThreadripperPRO**

CAMWorks

CAMWorks Graphics Considerations

GPUs have become powerful processors for performing compute tasks and moving large projects in 3D, however design software typically relies mostly on the CPU. 3D performance is normally not an issue for small to medium assemblies, but as projects increase in complexity, GPU memory and bandwidth becomes more of an important consideration. However, for most tasks a medium workload GPU is sufficient. As CAMWorks is typically used with the leading design software, the graphical demands of the whole workflow should be looked at, with the AMD Radeon Pro GPU range offering world-class multitasking capabilities.

Don't Overpay for GPU Performance

Investing in the right GPU for your full workflow allows you to reinvest that financial saving into more RAM, an NVMe™ drive with PCIe® 4.0 support, or a better CPU. A well-balanced system is vitally important for performance. With AMD Radeon™ Pro GPUs, the entire range supports ultra-high definition (UHD) resolutions, multiple monitors and carry common industry software certifications as standard, giving you complete peace of mind.

Learn more at
https://www.amd.com/en/technologies/vr-ready-creator

RADEON PRO **WX 3200** GRAPHICS

RADEON PRO **W5500** GRAPHICS

RADEON PRO **W5700** GRAPHICS

RADEON PRO **VII** GRAPHICS

LIGHT WORKLOADS

THE GPU FOR LIGHT ASSEMBLIES & SMALL FORM FACTOR WORKSTATIONS

### MEDIUM WORKLOADS

THE GPU FOR EVERYDAY CAD & MEDIUM COMPONENTS

HEAVY WORKLOADS

THE GPU FOR COMPLEX PROJECTS

EXTREME WORKLOADS

THE GPU FOR SIMULATION, VISUALIZATION AND VERY LARGE ASSEMBLIES

> **CAMWorks 2021 release is equipped to take advantage of up to 64 cores of AMD Ryzen Threadripper PRO processors, making the toolpath calculations and verification of these tool paths even faster.**
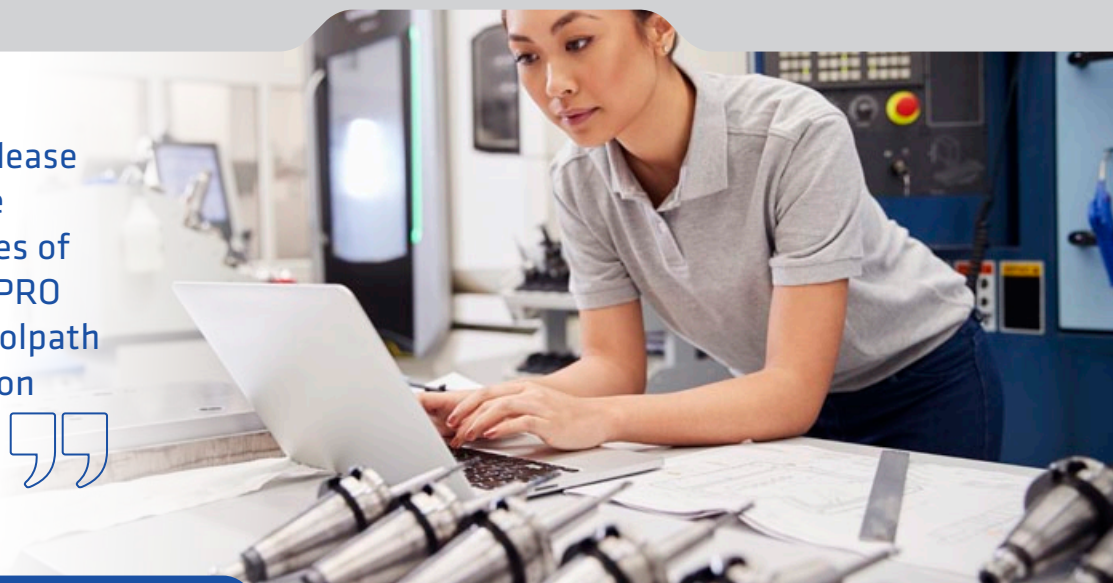
To learn more about AMD professional graphics visit: **amd.com/RadeonPro**

[1]Based on AMD testing on June 17, 2020 using HCL CAMWorks software to compare the application performance of AMD Ryzen Threadripper PRO 3995WX vs. (2) Intel Xeon Platinum 8280. Results may vary. CPP-69

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