



## WORKFLOW CONFIGURATION GUIDE

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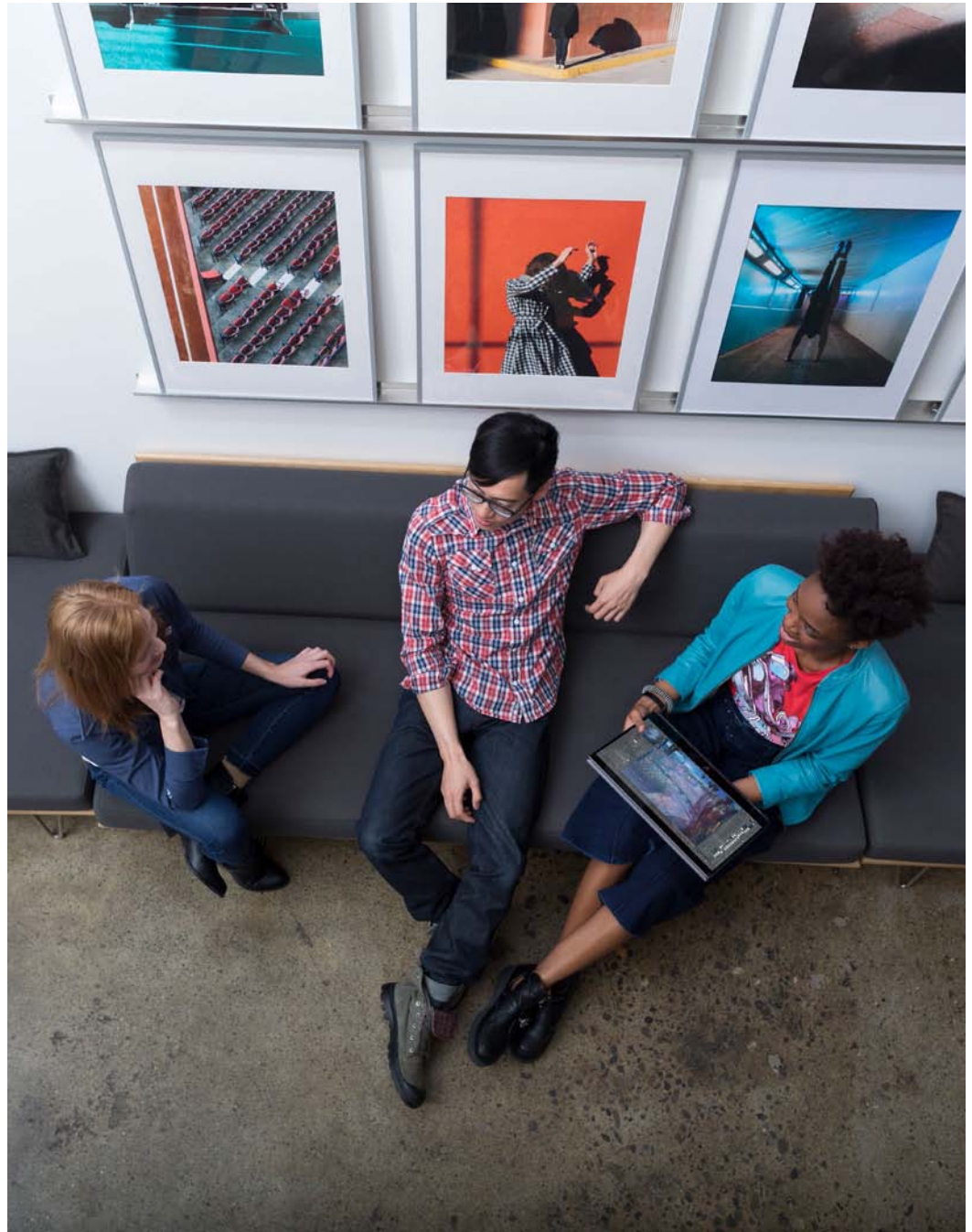
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## GOOD, BETTER, BEST

Your recommendation – explained. A closer look at the factors driving specific configurations across platforms and workflows.

Why would I use this guide instead of [Choosing the Right HP Z Workstation](#)? Choosing the Right HP Z Workstation identifies platforms generally considered appropriate choices for a software package. This guide recommends the specific configuration for the best performance across professional workflows. For an interactive configuration experience, please use the [HP Product Finder](#).



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# LIGHTWEIGHT TO MODERATE WORKFLOWS

## MOBILE PLATFORM

### ARCHITECTURE

- Small & Medium Business 2D CAD: Autodesk AutoCAD, VECTORWORKS, ARCHICAD, SketchUp
- Enterprise, 3D CAD, BIM: Autodesk REVIT, Bentley

Mobile platform	CPU	GPU	Storage	Memory
ZBook Studio G5	Intel® Core™ i7-8850H	NVIDIA® QUADRO® P1000	512GB Z Turbo SSD	16GB

### PRODUCT DESIGN, ENGINEERING, SIMULATION, AND DIGITAL MANUFACTURING

- Small Business 2D CAD: Autodesk AutoCAD, Solid Edge, SketchUp
- SMB 2D CAD: Autodesk Inventor, Autodesk Alias, Dassault SOLIDWORKS
- Enterprise 3D CAD PTC Creo, Siemens NX, Dassault CATIA, Autodesk PowerMill

Mobile platform	CPU	GPU	Storage	Memory
ZBook Studio G5	Intel® Core™ i7-8850H	NVIDIA® QUADRO® P1000	512GB Z Turbo SSD	16GB

- Enterprise Simulation/Analysis/Rendering: Dassault Simulia, ANSYS Suites, Siemens NASTAN, Autodesk 3ds Max, Autodesk Simulation, Dassault 3DEXCITE DELTAGEN, Keyshot

Mobile platform	CPU	GPU	Storage	Memory
ZBook 15 G5	Intel® Core™ i7-8850H	NVIDIA® QUADRO® P1000	512GB SSD 1TB SSD data	32GB

- Enterprise Product Lifecycle/Manufacturing Management: Dassault ENOVIA, Siemens TeamCenter, PTC Windchill, Dassault Delmia

### FILM AND PHOTOGRAPHY

- Photography/Graphic Design: Adobe Illustrator® CC, Adobe Lightroom CC, Adobe Photoshop CC

Mobile platform	CPU	GPU	Storage	Memory
ZBook x2 G4	Intel® Core™ i7-7600U	NVIDIA® QUADRO® M620	512GB Z Turbo	16GB

- Video & Film: Adobe After Effects CC, Autodesk 3ds Max, Autodesk Flame, Avid Media Composer®
- Animation/3D/Visual Effects: Adobe® After Effects® CC, Autodesk® 3ds MAX®, Autodesk Flame®, Autodesk Maya®, Cinema 4D

Mobile platform	CPU	GPU	Storage	Memory
ZBook Studio / Studio x360	Intel® Core™ i7-8850H	NVIDIA® QUADRO® P1000	512GB Z Turbo	32GB

### VIRTUAL REALITY

- 3D CAD and Design: Autodesk 3ds MAX, Autodesk Flame, Autodesk Maya, Foundry Katana, Foundry Mari, Foundry Modo, Foundry Nuke
- VR Authoring: Autodesk Skybox, Autodesk Maya, Unity, Unreal

Mobile platform	CPU	GPU	Storage	Memory
ZBook Studio 17	Intel® Xeon® E-2176M	NVIDIA® QUADRO® P5200	512GB Z Turbo + 1TB	32GB



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#### EDUCATION

- Film and animation: Autodesk® Entertainment Creation Suite, Adobe® Creative Cloud™ for Education, Avid® Media Composer® for Education, Avid Pro Tools® for Education
- Engineering & Architecture: PTC Creo Parametric for K-12, PTC Creo Student Edition, PTC Mathcad, Dassault Systèmes SOLIDWORKS Education Edition, MSC Nastran Student Edition, Bentley Academic Select, Autodesk Education Master Suite

Mobile platform	CPU	GPU	Storage	Memory
ZBook Studio / Studio x360	Intel® Core™ i7-8850H	NVIDIA® QUADRO® P1000	512GB Z Turbo + 1TB	32GB

## LIGHTWEIGHT TO MODERATE WORKFLOWS

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#### ARCHITECTURE

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- Enterprise, 3D CAD, BIM: Autodesk REVIT, Bentley

Desktop platform	CPU	GPU	Storage	Memory
Z2 Mini G4	Intel® Core™ i7-8700	NVIDIA® QUADRO® P1000	512GB Z Turbo SSD	16GB

#### PRODUCT DESIGN, ENGINEERING, SIMULATION, AND DIGITAL MANUFACTURING

- Small Business 2D CAD: Autodesk AutoCAD, Solid Edge, SketchUp
- SMB 2D CAD: Autodesk Inventor, Autodesk Alias, Dassault SOLIDWORKS
- Enterprise 3D CAD PTC Creo, Siemens NX, Dassault CATIA, Autodesk PowerMill

Desktop platform	CPU	GPU	Storage	Memory
Z2 Mini G4	Intel® Core™ i7-8700	NVIDIA® QUADRO® P1000	512GB Z Turbo SSD	16GB

- Enterprise Simulation/Analysis/Rendering: Dassault Simulia, ANSYS Suites, Siemens Nastan, Autodesk 3ds Max, Autodesk Simulation, Dassault 3DEXCITE DELTAGEN, Keyshot

Desktop platform	CPU	GPU	Storage	Memory
Z4 G4	Intel® Xeon® W-2155	NVIDIA® QUADRO® P1000	512GB SSD 1TB SSD data	128GB

- Enterprise Product Lifecycle/Manufacturing Management: Dassault ENOVIA, Siemens TeamCenter, PTC Windchill, Dassault Delmia

#### FILM AND PHOTOGRAPHY

- Photography/Graphic Design: Adobe Illustrator® CC, Adobe Lightroom CC, Adobe Photoshop CC

Desktop platform	CPU	GPU	Storage	Memory
Z2 Mini G4	Intel® Core™ i7-7600U	P6000	512GB Z Turbo	16GB

- Video & Film: Adobe After Effects CC, Autodesk 3ds Max, Autodesk Flame, Avid Media Composer®
- Animation/3D/Visual Effects: Adobe® After Effects® CC, Autodesk® 3ds MAX®, Autodesk Flame®, Autodesk Maya®, Cinema 4D

Desktop platform	CPU	GPU	Storage	Memory
Z2 G4	Intel® Xeon® E-2176	P4000	512GB Z Turbo	16GB



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#### VIRTUAL REALITY

- 3D CAD and Design: Autodesk 3ds MAX, Autodesk Flame, Autodesk Maya, Foundry Katana, Foundry Mari, Foundry Modo, Foundry Nuke
- VR Authoring: Autodesk Skybox, Autodesk Maya, Unity, Unreal

Desktop platform	CPU	GPU	Storage	Memory
Z4 G4	Intel® Xeon® W-2155	P5000	512GB Z Turbo + 1TB	32GB

#### EDUCATION

- Film and animation: Autodesk® Entertainment Creation Suite, Adobe® Creative Cloud™ for Education, Avid® Media Composer® for Education, Avid Pro Tools® for Education

Desktop platform	CPU	GPU	Storage	Memory
Z2 G4	Intel® Xeon® E-2176G	P4000	512GB Z Turbo + 2TB	16GB

- Engineering & Architecture: PTC Creo Parametric for K-12, PTC Creo Student Edition, PTC Mathcad, Dassault Systèmes SOLIDWORKS Education Edition, MSC Nastran Student Edition, Bentley Academic Select, Autodesk Education Master Suite

Desktop platform	CPU	GPU	Storage	Memory
Z2 Mini G4	Intel® Core™ i7-8700	P2000	512GB Z Turbo	16GB

## HEAVYWEIGHT TO MODERATE WORKFLOWS

### MOBILE PLATFORM

#### ARCHITECTURE

- Small & Medium Business 2D CAD: Autodesk AutoCAD, VECTORWORKS, ARCHICAD, SketchUp

Mobile platform	CPU	GPU	Storage	Memory
ZBook 15 G5	Intel® Core™ i7-8850H	P2000	512GB Z Turbo SSD	32GB

- Enterprise, 3D CAD, BIM: Autodesk REVIT, Bentley

Mobile platform	CPU	GPU	Storage	Memory
ZBook 15 G5	Intel® Core™ i7-8850H	P3200	512GB Z Turbo SSD	32GB



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## PRODUCT DESIGN, ENGINEERING, SIMULATION, AND DIGITAL MANUFACTURING

### • Small Business 2D CAD: Autodesk AutoCAD, Solid Edge, SketchUp

Mobile platform	CPU	GPU	Storage	Memory
ZBook15 G5	Intel® Core™ i7-8850H	P2000	512GB Z Turbo	16GB

### • SMB 2D CAD: Autodesk Inventor, Autodesk Alias, Dassault SOLIDWORKS

Mobile platform	CPU	GPU	Storage	Memory
ZBook15 G5	Intel® Core™ i7-8850H	P3200	512GB SSD + 1TB	32GB

### • Enterprise 3D CAD PTC Creo, Siemens NX, Dassault CATIA, Autodesk PowerMill

Mobile platform	CPU	GPU	Storage	Memory
ZBook15 G5	Intel® Core™ i7-8850H	P4200	12GB Z Turbo	32GB

### • Enterprise Simulation/Analysis/Rendering: Dassault Simulia, ANSYS Suites, Siemens NASTAN, Autodesk 3ds Max, Autodesk Simulation, Dassault 3DEXCITE DELTAGEN, Keyshot

Mobile platform	CPU	GPU	Storage	Memory
ZBook15 G5	Intel® Core™ i7-8850H	P3200	512GB SSD + 1TB	64GB

### • Enterprise Product Lifecycle/Manufacturing Management: Dassault ENOVIA, Siemens TeamCenter, PTC Windchill, Dassault Delmia

## FILM AND PHOTOGRAPHY

### • Photography/Graphic Design: Adobe Illustrator® CC, Adobe Lightroom CC, Adobe Photoshop CC

Mobile platform	CPU	GPU	Storage	Memory
ZBook Studio / Studio x360	Intel® Xeon® E-2176M	NVIDIA® QUADRO® P5200	512GB Z Turbo + 1TB	32GB

### • Video & Film: Adobe After Effects CC, Autodesk 3ds Max, Autodesk Flame, Avid Media Composer®

### • Animation/3D/Visual Effects: Adobe® After Effects® CC, Autodesk® 3ds MAX®, Autodesk Flame®, Autodesk Maya®, Cinema 4D

Mobile platform	CPU	GPU	Storage	Memory
ZBook 17 G5	Intel® Xeon® E-2176M	NVIDIA® QUADRO® P5200	512GB Z Turbo + 1TB	64GB

## VIRTUAL REALITY

### • 3D CAD and Design: Autodesk 3ds MAX, Autodesk Flame, Autodesk Maya, Foundry Katana, Foundry Mari, Foundry Modo, Foundry Nuke

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Mobile platform	CPU	GPU	Storage	Memory
ZBook 17 G5	Intel® Core™ i7-8750H	P3200	512GB Z Turbo + 1TB	32GB



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# HEAVYWEIGHT TO MODERATE WORKFLOWS

## DESKTOP PLATFORM

### ARCHITECTURE

#### • Small & Medium Business 2D CAD: Autodesk AutoCAD, VECTORWORKS, ARCHICAD, SketchUp

Desktop platform	CPU	GPU	Storage	Memory
Z2 G4 Tower	Intel® Core™ i7-8700K	NVIDIA® QUADRO® P1000	512GB Z Turbo SSD	16GB

#### • Enterprise, 3D CAD, BIM: Autodesk REVIT, Bentley

Desktop platform	CPU	GPU	Storage	Memory
Z2 G4 Tower	Intel® Core™ i7-8700K	P4000/WX7100	512GB Z Turbo Drive	32GB

### PRODUCT DESIGN, ENGINEERING, SIMULATION, AND DIGITAL MANUFACTURING

#### • Small Business 2D CAD: Autodesk AutoCAD, Solid Edge, SketchUp

Desktop platform	CPU	GPU	Storage	Memory
Z2 G4 Tower	Intel® Core™ i7-8700K	P2000	512GB Z Turbo SSD	16GB

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Desktop platform	CPU	GPU	Storage	Memory
Z8 G4	2x Intel® Xeon® Gold 6136	P2000	512GB Z Turbo SSD 1TB SSD data	192GB

#### • Enterprise Product Lifecycle/Manufacturing Management: Dassault ENOVIA, Siemens TeamCenter, PTC Windchill, Dassault Delmia



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#### FILM AND PHOTOGRAPHY

- Photography/Graphic Design: Adobe Illustrator® CC, Adobe Lightroom CC, Adobe Photoshop CC

Desktop platform	CPU	GPU	Storage	Memory
Z2	Intel® Core™ i7-8700K	P2000	512GB Z Turbo + 1TB	32GB

- Video & Film: Adobe After Effects CC, Autodesk 3ds Max, Autodesk Flame, Avid Media Composer®

- Animation/3D/Visual Effects: Adobe® After Effects® CC, Autodesk® 3ds MAX®, Autodesk Flame®, Autodesk Maya®, Cinema 4D

Desktop platform	CPU	GPU	Storage	Memory
Z8	2x Intel® Xeon® Gold 6136	P6000	512GB Z Turbo + Z Turbo QuadPro 4x256GB	96GB

#### VIRTUAL REALITY

- 3D CAD and Design: Autodesk 3ds MAX, Autodesk Flame, Autodesk Maya, Foundry Katana, Foundry Mari, Foundry Modo, Foundry Nuke
- VR Authoring: Autodesk Skybox, Autodesk Maya, Unity, Unreal

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Mobile platform	CPU	GPU	Storage	Memory
Z8	2x Intel® Xeon® Gold 6136	P6000	512GB Z Turbo + Z Turbo QuadPro 4x256GB	96GB

- Engineering & Architecture: PTC Creo Parametric for K-12, PTC Creo Student Edition, PTC Mathcad, Dassault Systèmes SOLIDWORKS Education Edition, MSC Nastran Student Edition, Bentley Academic Select, Autodesk Education Master Suite

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## APPENDIX A: FREQUENTLY ASKED QUESTIONS

### CAD FAST FACTS – CPU EXPLAINED

The majority of CAD applications are single-threaded, making CPU speed a key consideration of performance. For rendering and simulation, multi-core boosts multi-threaded application performance.

For example, an Autodesk® Revit® user will gain the most performance improvement with an HP Z2 SFF running 4 Intel® Core® i7 processors with a 4.5 GHz clockspeed. An ANSYS user performing complex simulations, on the other hand, will benefit the most from an HP Z88 with 56 Intel® Xeon® cores with hyperthreading.

### INTEL® CORE™ VS. INTEL® XEON® – WHAT IS THE DIFFERENCE?

Intel® Xeon® is a server-derived solution designed for industry innovators, featuring ECC Memory and mission-critical reliability. For powerful processing coupled with cost-effectiveness, Intel® Core™ is a similarly suitable solution. It is important to remember that performance is not entirely reliant on frequency or number of cores, but about the efficiency of the entire configuration.

### PROFESSIONAL GRAPHICS FOR PROFESSIONAL WORKFLOWS – GPU LOGIC:

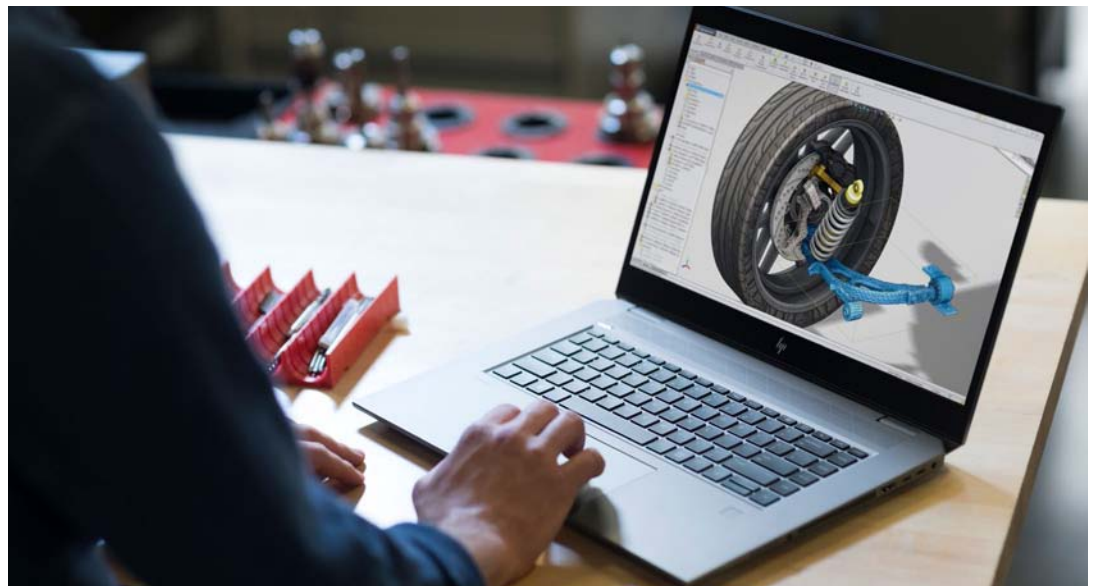
Professional graphics cards are certified to run with professional applications, providing a distinct advantage over consumer cards. They are designed to handle constant application demands for years and have more memory, smaller footprints, and consume less power. Some, like NVIDIA® Quadro®, come with professional management tools along with extended availability and support.

### MEMORY VS. STORAGE – WHAT'S THE BIGGER DEAL?

The short answer? Both. The long answer? Storage is where applications live; memory offers the fastest access point for the CPU to run applications. The more memory available, the better the CPU is at multi-tasking, which is important for users frequently switching between applications. Storage can be expanded with features like the HP Z Turbo Drive, an affordable and innovative PCIe storage solution.

### TOUCH, ANTI-GLARE, PENS, 4K – DISPLAYS MATTER

Where do you work? What matters in your workflow? Whether it's the ability to work outside or the necessity of color-critical workflows, HP Z Displays – both attach and on mobile – offer a variety of options to suit a variety of needs. NITS is a standard unit of luminance used to describe various sources of light; in other words, it's a measurement of screen brightness. Between 300-500 is considered the average range for good quality displays. Size of the display is measured diagonally. Resolution is described by a pixel aspect ratio. The higher the number, the better the resolution.







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## APPENDIX B: SOFTWARE EXPLAINED

Software explained: what does it do? A quick overview of the top software vendors worldwide across major industries. To learn more about a specific application, please refer to a variety of HP-published whitepapers.

### Adobe Creative Cloud

- Lightroom - edit and enhance photos
- Illustrator - create vector artwork such as logos, sketches, and typography
- Photoshop - create and enhance photos, images, and designs
- Premier Pro - make videos for film, TV, and web
- After Effects - create motion graphics and visual effects for film, TV, video, and web

### Autodesk® for AEC & Product Development

- AutoCAD - 2D and 3D design and drafting
- Revit - building information modeling
- Inventor - 3D CAD for product design, rendering, and simulation
- Alias - industrial design tools for technical surface design and surface modeling
- 3ds MAX - create 3D animations, models, and images
- Simulation - Multiphysics finite element analysis
- Powermill (previously Delcam) - expert CAM software for complex high-speed and 5-axis machining

### Autodesk® for M&E

- 3ds MAX - create 3D animations, games, and images
- Flame - tools for 3D visual effects, compositing, advanced graphics, color management, and editorial finishing for VFX
- Maya - create 3D animations with modeling, rendering, simulation, texturing, and animation tools

### ANSYS

- Discovery Live - instantaneous 3D simulation with direct geometry modeling for rapid product innovation
- Fluent/CFX\* - computational fluid dynamics
- Mechanical - finite element analysis tool to analyze complex product architectures and solve mechanical problems

### Dassault Systèmes

- SOLIDWORKS - 3D CAD product design engineering tools
- CATIA - suite for computer-aided design, manufacturing engineering, PLM and 3D
- SIMULIA - realistic simulations to explore real-world behavior of product, nature and life
- 3DEXCITE - high-end 3D visualizations in real-time for product marketing content creation
- DELMIA - global industrial operations software specializing in digital manufacturing and manufacturing simulation

### Foundry

- Katana - lighting look and development
- Mari - 3D texture painting
- Modo - creative 3D modeling, sculpting, texturing, painting, and photorealistic rendering
- Nuke - toolkits for node-based compositing, editorial, and finishing

### PTC

- Creo - 3D CAD/CAM/CAE for product simulation, 3D mechanical design, analysis testing, and manufacturing applications
- PLM (previously Windchill) - product data management from inception to design



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## Siemens

- SolidEdge - 3D CAD, parametric feature and synchronous solid modeling
- NX - design, simulation and manufacturing solutions for every stage of product development
- Nastran - finite element method solver for computational performance, accuracy, reliability, and scalability

\*ANSYS Fluent and ANSYSYS CFX are two computational fluid dynamic applications. They were independent companies which were then bought by ANSYS. At the time of publication, they have not been merged, but each contains features of the other.





LET US HELP YOU CREATE SOME AMAZING BUSINESS SOLUTIONS TODAY

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PRODUCT FINDER

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For more information, visit the HP Workstations home page at <http://www.hp.com/go/workstations>.

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