The HP commitment to innovation and solutions excellence, along with Autodesk’s 3D design software and the HP/Autodesk relationship, provides you with a significant engineering edge which starts with the HP family of revolutionary, next-generation Z Workstations, designed to make complex 3D design and rendering easier and faster than ever before.

**HP innovation, performance, reliability, and relationships**

HP Z Workstations are engineered to optimize the way processor, memory, graphics, operating system, and software components work together, delivering a massive, whole-system computational power that helps you accomplish more with every minute of your time. This delivers advantages in four key areas:

- **Innovation**: Enjoy next-generation technology, including a new line of 2D and 3D graphics cards to help you create and visualize even the most complex designs. HP WattSaver, when activated, helps lower energy consumption in off mode.
- **Performance**: Get maximum compute and visualization power to help speed your work and beat deadlines and expectations. At the heart of HP Z Workstations are the new Intel® Xeon® processors with Intel processor performance technologies that include Intel® QuickPath Technology with integrated memory controller, Intel® Hyper-Threading3 Technology, and Intel® Turbo Boost Technology. Intel Turbo Boost helps processor cores run faster than the base operating frequency, which provides more processing speed for single and multi threaded applications. The HP Z Workstation cooling design enhances this performance.
- **Reliability**: Achieve maximum productivity with HP through product testing that includes application performance, graphics, and comprehensive ISV certification.
- **Relationships**: HP helps our customers create a long-lasting competitive edge by leveraging our technical resources and relationships with Autodesk, graphics vendors, chip suppliers, and Microsoft to provide a consistent technical direction and broader, more dependable 3D application-oriented technology choices.

**HP and Autodesk**

HP has a unique relationship with Autodesk, Inc., the world leader in 2D and 3D design software for the manufacturing, building, and construction and media and entertainment industries. More than nine million users rely on Autodesk tools to help them design, visualize, and simulate real-world performance early in the design process, save time and money, enhance quality, and foster innovation.

HP works with Autodesk as its top hardware partner to offer our combined customers a comprehensive portfolio of solutions that address their needs, with innovative hardware and software that is tuned and integrated. Our close relationship and engineering expertise help ensure solutions that perform not only today, but into the future.
Autodesk helps AEC professionals realize greater productivity through more complete design information—from AutoCAD-based design and documentation software to advanced technology for building information modeling (BIM), dynamic civil modeling, and collaborative project management. Autodesk’s AEC solutions include AutoCAD® Architecture, AutoCAD LT®, AutoCAD® Revit® Architecture Suite, Autodesk® 3ds Max®, Autodesk® Collaborative Project Management, Autodesk® Design Review, AutoCAD® Civil, AutoCAD® Raster Design, AutoCAD® Map 3D, AutoCAD® Revit® Structure Suite, Autodesk® Inventor®, and Autodesk® Navisworks® software products, among others.

**Autodesk Manufacturing Solutions**
From conceptual design to engineering, manufacturing, and visualization, Autodesk provides the interoperable tools that allow manufacturing companies to connect their entire product development process through a single digital model, enabling them to compete and win. The Autodesk solution for Digital Prototyping includes the Autodesk® Alias® family of products, Autodesk® Showcase®, Autodesk® Inventor® (the foundation of the Autodesk solution for Digital Prototyping), AutoCAD®, AutoCAD® Mechanical, AutoCAD® Electrical, the Autodesk® Vault family of products, Autodesk Streamline®, Autodesk® Design Review, Autodesk® Navisworks®, Autodesk® Moldflow®, Autodesk® 3ds Max® Design, and Autodesk® Maya® software products.

**Autodesk Design Visualization Solutions**
Autodesk design visualization solutions provide advanced 3D modeling, lighting, rendering, and animation toolsets for the most challenging architectural, product, scientific, medical, or industrial projects. Turn design data into beautiful imagery, bring your presentations to life, and experience industry-leading connectivity and interoperability with products that include Autodesk® 3ds Max® software and the AutoCAD® and Autodesk® Revit® families of products, as well as Autodesk® Combustion®, Autodesk® ImageModeler, Autodesk® Maya®, and Autodesk® Stitcher™ Unlimited software products.

**Autodesk Infrastructure and Government Solutions**
Autodesk solutions help with the design, drafting, and management of civil engineering projects, land planning and analysis, and creation and management of spatial data with solutions that include Autodesk MapGuide®, Enterprise, AutoCAD® Map 3D, Autodesk® Topobase™, Autodesk® FMDesktop®, Autodesk® Revit® Architecture, Autodesk 3ds Max, AutoCAD Architecture, AutoCAD® Civil, and Autodesk Design Review software products.
Your digital workbench
In addition to leading-edge hardware solutions, HP also offers a combination of applications, workstations, and productivity tools that give you a digital workbench that aids collaboration, improves performance, and helps you work smarter. HP Remote Graphics Software and HP Performance Tuning Framework are important tools to help improve your productivity. The performance of the HP Z Workstations enables significant time savings and helps you create a competitive edge. The HP SpacePilot and HP DreamColor monitor can help improve productivity for some applications.

It is important for CAD and IT managers to focus on these productivity gains — along with Autodesk application tips and tricks — that can help you create the best possible digital workbench for your needs and enable significant benefits. A 2% productivity improvement can translate to a week’s savings in a year; 20% can mean 10 weeks of time savings.

HP Remote Graphics Software
HP Remote Graphics Software (RGS) is an advanced 3D screen-sharing utility that allows you to remotely access and share your workstation, its 3D graphics power, and all of its applications, in real time. Using HP compression technology, HP RGS compresses the screen image, sending it to receiver software for decompression and display. The receiver captures keystrokes and mouse clicks for return to the workstation.

HP RGS minimizes network usage and enables remote access without compromising performance or image quality. Well-suited to engineers and designers looking to speed the design process, HP RGS enables real-time sharing of high-resolution imagery so creative teams from multiple remote sites can collaborate instantly, regardless of remote distances.

HP Performance Tuning Framework
Put the underlying power of HP Workstations at your fingertips, with a powerful interface to see into, fine-tune, and help optimize the performance of HP Workstations running Microsoft® Windows® XP and Windows Vista® operating systems. HP Performance Tuning Framework (PTF) makes it simple and reliable to keep your professional applications running smoothly by:

- Providing a detailed configuration report so you can easily see what’s on your system.
- Organizing graphics driver certification information to help you make informed decisions regarding driver testing when loading the latest drivers.
- Tracking memory use and graphically displaying how applications and processes use physical and virtual memory.
- Monitoring system resource usage over time to see if your applications and usage create bottlenecks.

Should you have a problem, Autodesk support staff can review your PTF configuration file — it’s as simple as that. Best of all, HP PTF is included with each HP Workstation.

HP SpacePilot
Working in 3D is easier and more efficient with the HP SpacePilot Intelligent Controller, which enables two-handed CAD by combining refined sensing technology, extendable speed keys, and a comfortable design so you can minimize repetitive stress. Studies show significant improvements in user productivity when inputting with an HP SpacePilot. Easily change the center of rotation and quickly pan, zoom, and animate assemblies. With HP SpacePilot, you can intuitively push, tilt, or twist the control cap for an immediate response; 21 speed keys increase your efficiency and make working with your designs less stressful and more enjoyable than working with just a mouse and keyboard.
Why a Workstation (vs. a Desktop PC)
For Autodesk professionals, the answer is easy! Engineering and design professionals require high-performance systems to support their complex 2D and 3D applications. HP Workstations offer advanced features that deliver more power, stability, and dependability than standard PCs, including:
• Certification, testing, and optimization with Autodesk applications like Revit, AutoCAD, Inventor, and 3ds Max to give users reliable, optimized platforms.
• Support for the fastest processors and latest processor architectures required to maximize your performance with Autodesk applications.
• ECC memory for better reliability and stability when running professional applications and larger data sets.
• High-end chipsets designed to provide the bandwidth for professional applications and data sets when controlling the flow of data across the bus to and from processor, storage, and graphics.
• 2D and 3D graphics cards that provide the power for professional applications and visualization, along with stability, image clarity, reliability, and performance.
• Faster disk drives (10k and 15k rpm) for data-intensive applications.
• Personal productivity tools such as HP Remote Graphics Software and HP Performance Tuning Framework (highlighted on the previous page).

Meet the HP Workstation family
Combining bold design, best-in-class engineering, robust tools, and visual collaboration solutions, the HP Workstation family takes innovation, performance, and reliability to the next level—to give you and your business a competitive edge. All HP Workstations are tested and certified for Autodesk applications. HP tests a comprehensive range of Autodesk applications on our workstations, helping ensure reliable, dependable performance.

HP Z400 Workstation
The HP Z400 Workstation delivers enhanced workstation performance in a very affordable package to transform the way engineering and design professionals work. The next-generation system architecture enables fast and efficient performance plus HP personal productivity tools and built-in HP reliability that helps you work more productively and get the job done faster. This workstation is ideal for AutoCAD users, users with 3D vertical solutions that leverage AutoCAD, and 2D and 3D users who need the most affordable solution.

HP Z600 Workstation
The HP Z600 Workstation packs compute and visualization power to help you work faster and beat deadlines—delivering maximum performance in our smallest, quietest dual eight-core design when every inch, watt, and decibel make a difference. This workstation is ideal for 3D users who want to take advantage of the multiple cores needed for applications that use rendering, animation, and simulation. This system’s dual-processor capability,
combined with Intel Turbo Boost and Hyper-Threading\textsuperscript{2} technologies, is well-suited for users of single-threaded applications who occasionally need support for multi-threaded applications, such as Autodesk Inventor, Revit, Civil 3D\textsuperscript{5}, and AutoCAD Map 3D.

**HP Z800 Workstation**
The HP Z800 Workstation delivers the ultimate performance in a revolutionary next-generation design that combines extreme speed, massive expandability, and maximum productivity to accelerate even the biggest, most complex engineering and design projects. This high-end workstation provides the expandability, performance, and data storage required by power users of Autodesk\textsuperscript{8} 3ds Max and other visualization applications.

**HP z600 Workstation**
The HP z600 Workstation delivers uncompromised graphics performance and maximum expandability, combining computational and visualization power with I/O performance, while helping to lower your total cost of ownership. This workstation is ideal for high-end Autodesk power users who want the AMD advantage.

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### Meet the HP Workstation family

<table>
<thead>
<tr>
<th>Model</th>
<th>HP xw4600 Workstation</th>
<th>HP Z400 Workstation</th>
<th>HP Z600 Workstation</th>
<th>HP Z800 Workstation</th>
<th>HP Elitebook 8730w Mobile Workstation</th>
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<tbody>
<tr>
<td><strong>User</strong></td>
<td>Ideal for entry level users who need workstation performance</td>
<td>Ideal for those who want to maximize performance with single-threaded application</td>
<td>Ideal for those who occasionally need multi-core performance</td>
<td>Ideal for those who have the largest files, store large data sets</td>
<td>Ideal for those who want the most power a notebook can provide, as light as possible</td>
</tr>
<tr>
<td><strong>Autodesk solution</strong></td>
<td>AutoCAD LT, Entry AutoCAD &amp; Vertical Apps Inventor, Civil 3D, Revit</td>
<td>AutoCAD &amp; Vertical Apps Inventor, Civil 3D, Revit</td>
<td>Revit Structure, Revit MEP, 3ds Max</td>
<td>Inventor power user, AutoCAD Map 3D, 3ds Max power user</td>
<td>All Autodesk applications</td>
</tr>
<tr>
<td><strong>Processors</strong>\textsuperscript{1,2}</td>
<td>Intel\textsuperscript{8} Pentium\textsuperscript{8}, Intel Core\textsuperscript{8} 2 Duo processor, Intel Core 2 Quad processor, Intel Core 2 Extreme processor</td>
<td>Dual- and quad-core Intel\textsuperscript{8} Xeon\textsuperscript{8} processor, Intel\textsuperscript{17} QuickPath Technology</td>
<td>Quad-core Intel\textsuperscript{8} Xeon\textsuperscript{8} processor, Intel\textsuperscript{17} QuickPath Technology</td>
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<td>Intel Core 2 Duo or Extreme processor</td>
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**HP Elitebook 8730w Mobile Workstation**
The HP Elitebook 8730w Mobile Workstation redefines power on the move, combining the best in visualization and computational power with a 17-inch diagonal display for HP’s highest performing mobile workstation. This mobile workstation offers reinforced latches and durable construction in a lightweight form factor that has passed most Mil-Std testing, making it a great tool for professionals on the go. The choice of an HP DreamColor screen enables true color visualization in addition to top performance for Autodesk applications.

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5 Windows®. Life without Walls™. HP recommends Windows.
## Suggested configurations

### (ALL APPLICATIONS CERTIFIED)

### HP recommends for Autodesk architecture, engineering, and construction

<table>
<thead>
<tr>
<th>Configuration</th>
<th>Description</th>
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<tbody>
<tr>
<td><strong>AutoCAD LT</strong></td>
<td>Genuine Windows XP Professional 32-bit available through downgrade rights from Windows Vista Business.** Quad-Core(^1) Intel(^\circ) Xeon(^\circ) processor(^2) W3570* 3.2 GHz Intel X58 Express chipset 4 GB DDR3 ECC memory(^<em>) NVIDIA Quadro FX 1800 (2) 300 GB 15k rpm SAS(^</em>) DVD-ROM SATA(^*) HP LP2475w 24-inch Widescreen LCD Monitor HP Remote Graphics Software HP Performance Tuning Framework HP Scroll Mouse Application certified</td>
</tr>
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<td><strong>AutoCAD, AutoCAD Architectural</strong></td>
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<td><strong>Autodesk Revit Architecture, Structure, MEP</strong></td>
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### HP recommends for Autodesk manufacturing solutions

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Windows®. Life without Walls™. HP recommends Windows.
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</tr>
<tr>
<td><strong>HP Z800 Workstation</strong></td>
<td>Genuine Windows XP Professional 64-bit available through downgrade rights from Windows Vista Business <strong>1</strong>. Quad-Core® Intel Xeon processor® W5580, 3.2 GHz. NVIDIA Quadro FX 3800, 300 GB 15k rpm SAS RAID. HP Elitebook 8730w 17-inch diagonal WUXGA display (1920 x 1200). NVIDIA Quadra FX 3700m with 1 GB of video memory. 8 GB DDR2 800 MHz SDRAM memory. 320 GB 7200 rpm SATA hard drive. DVD/CD RW Combo. 7.5 pounds. Business rugged design. HP Remote Graphics Software. HP Performance Tuning Framework. Application certified. 3-year limited warranty.</td>
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**HP recommends for all Autodesk applications**

- Autodesk Inventor
- Autodesk Inventor (power user)
- AutoCAD Civil 3D
- AutoCAD Map 3D
- Autodesk Alias, Autodesk Showcase, Autodesk 3ds Max

**Autodesk Mobility (for all Autodesk applications)**

- AutoCAD
- AutoCAD Civil 3D
- AutoCAD Map 3D
- Autodesk Alias
- Autodesk Showcase
- Autodesk 3ds Max

**HP Elitebook 8730w Mobile Workstation**

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- Dual Quad-Core® Intel Xeon processor® W5580, 3.2 GHz.
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- 8 GB DDR3 ECC memory.
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- 8 GB DDR2 800 MHz SDRAM memory.
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- Business rugged design.
- HP Remote Graphics Software.
- HP Performance Tuning Framework.
- Application certified.
- 3-year limited warranty.
For more information about HP and Autodesk solutions, please visit www.hp.com/go/autodesk