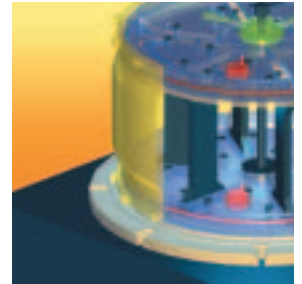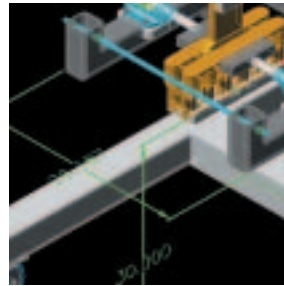# HP and Autodesk

For complete MCAD and AEC solutions

HP and Autodesk provide engineers and architects with the best tools to create, manage and deliver complex designs in the fastest, most cost effective, most efficient way possible. HP workstations provide the sheer muscle and advanced graphics capabilities to form the backbone of a true CAD solution and include legendary HP reliability, support and innovation. Autodesk combines its industry leading design software with data management tools to create superior Building and Manufacturing Solutions.

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Partners for Success

HP delivers price, power and support advantages to Autodesk users

Autodesk

Autodesk is the world's leading design software and digital content company, offering customers progressive business solutions through powerful technology products and services. Overall, Autodesk offers more than 40 software products focusing on five key industries, including manufacturing and building.

- **Manufacturing Solutions** – Autodesk helps create designs, connect the design chain and complete the manufacturing process so products get to market faster and at a lower cost. Software includes: Autodesk Inventor, AutoCAD Mechanical and AutoCAD. Inventor is a leading 2D and 3D design application that helps speed design, simplify data management and establish the design cycle as a competitive advantage.

- **Building Solutions** – Autodesk helps connect all players, enhance the process and create intelligent design data for use throughout the project lifecycle. Software includes: Autodesk Revit, Autodesk Building Systems, Autodesk Architectural Desktop and Autodesk Buzzsaw. With Autodesk Revit, a design and documentation system, changes made anywhere – including model views, drawing sheets, plans, etc. – are automatically coordinated across the entire building project.

Taking maximum advantage of Autodesk requires power, advanced graphics, stability and collaboration. HP delivers them all – optimized specifically for Autodesk.

Powerful workstations

HP leverages the fastest processors, latest chipsets and architectures and most robust and expandable memory systems to handle complex simulations and manipulate large design files. HP workstation choices include:

- **HP Workstation xw4100** – high-performance, low-cost workstation featuring an Intel® Pentium® 4 processor.

- **HP Workstation xw6000** – dual processing power in a small package featuring the Intel Xeon™ processor.

- **HP Workstation xw8000** – extra muscle with dual Intel Xeon processors to handle complex designs and enhance visualization performance.

HP Performance Tuning Framework

This HP exclusive optimization tool for Autodesk Inventor now ships with every Intel Pentium 4/Xeon-based workstation. The easy-to-use Framework analyzes hardware and software to create a custom configuration for optimal performance and stability. The Framework updates the system registry to optimize graphics, enables the operating system to allocate up to 3 GB of memory and performs other application-specific tuning.

Superior graphics

HP builds the latest graphics technology into its workstations and offers the broadest range of graphics offerings targeted to the engineering market.

Reliability and support

HP maintains an Application Competency Center to certify its workstations for Autodesk applications. HP and Autodesk technical teams work closely to ensure that installed graphics mesh seamlessly with hardware and software and are optimized for Autodesk software. It is this collaboration that provides the engineering basis for the HP Performance Tuning Framework and ongoing service and support.

Complete solutions

HP provides an unmatched array of complementary and integrated products to simplify all steps of the engineering process and speed time-to-market. Leading HP products include the Compaq Tablet PC, HP iPAQ Pocket PC mobile organizer, the HP Designjet 5000 Series of large format printers and the HP Visualization Center sv7 as well as servers and storage products.

For more information on HP solutions for Autodesk and MCAD, US customers please visit www.hp.com/go/autodesk, customers in Europe, Middle East, and Africa should visit www.hp.com/uk, select your country and choose "workstations". For more information on the HP Performance Tuning Framework, visit: www.hp.com/workstations/software/framework

Engineered for innovators

	HP Workstation xw4100 High performance, low cost workstation	HP Workstation xw6000 Dual processors, small footprint	HP Workstation xw8000 High performance, dual processor workstation	HP Compaq nw8000 Workstation performance, notebook mobility	Autodesk Inventor Manufacturing Solution	Autodesk Revit Building Solution
	Unprecedented performance in a low cost workstation. Features ECC memory, 3D OpenGL graphics choices, large memory capacity and high performance I/O. Provides the workstation your design needs require at a great price.	Small, powerful workstation features dual processing power to handle large challenges and multiple tasks, including 3D solid modeling and finite element analysis. Supports two-handed CAD with the HP Spaceball.	More muscle and HP dependability. The HP xw8000 delivers the performance to solve large design and analysis problems in real time. Provides advanced MCAD/CAE users with power and expandability. Empowers digital mock-up on an engineer's desk.	Combines workstation performance with the freedom of mobility, allowing design professionals to accomplish tough design tasks wherever necessary. Supports OpenGL with ATI Fire GL graphics and offers true 3D graphics processor performance with the ATI Mobility Fire GL T2.	Delivers the flexibility you want with the technology you need to provide the best value in 2D and 3D design for the manufacturing industry. Makes design cycle faster, data management easier and product development more affordable.	This building information modeler is a powerful design and documentation system that offers productivity, coordination, and quality benefits to architects, builders and other building industry professionals.
Architecture	32-bit	32-bit	32-bit	32-bit	Best-selling 3D design software	Intuitive, easy-to-use interface
Processor	Intel Pentium 4 Single processor	Intel Xeon Up to two processors	Intel Xeon Up to two processors	Intel Pentium M Single processor	AutoCAD 2004 integration	Multiple people can work on same model
Chipset	Intel 875P	Intel E7505	Intel E7505	Intel 855PM	DWF publishing	Dimensions reflect actual building geometry
Maximum memory bandwidth	6.4 GB/s	4.2 GB/s	4.2 GB/s	2.7 GB/s	Enhanced large-assembly design	
Memory capacity	4 GB ECC	8 GB ECC[1]	12 GB ECC[1]	2 GB	Pack and Go enables more effective data sharing	Detailed graphic control and view-specific graphics
Expansion slots	5 PCI	4 PCI	2 PCI 2 PCI-X/100 1 PCI-X/133	PC Card slot		On-demand visualizations
Operating systems	Microsoft Windows 2000 Professional[2], Microsoft Windows XP Professional, Red Hat Enterprise Linux WS 3.0[3], HP Installer Kit for Linux	Microsoft Windows 2000 Professional[2], Microsoft Windows XP Professional, Red Hat Enterprise Linux WS 3.0[3], HP Installer Kit for Linux	Microsoft Windows 2000 Professional[2], Microsoft Windows XP Professional, Red Hat Enterprise Linux WS 3.0[3], HP Installer Kit for Linux	Microsoft Windows 2000 Professional[2], Microsoft Windows XP Professional	Maintains excellent graphics performance with large assemblies	Industry-leading DWG compatibility
Graphics interface	AGP 8X	AGP 8X	AGP 8X	AGP 4X	Change design views on-the-fly	Output to any ODBC-compliant database
Certified for Autodesk	Yes	Yes	Yes	Yes	Create trimmed surfaces with Shape Manager	Thousands of building component families
Miscellaneous	Convertible minitower Hyper-Threading technology, Supports Performance Tuning Framework	Convertible minitower Gigabit Ethernet, Supports Performance Tuning Framework	Convertible minitower Gigabit Ethernet, Supports Performance Tuning Framework	6 pounds 15-inch screen 5-hour battery life Gigibit Ethernet NIC Flash media slot, Supports Performance Tuning Framework	Direct notification of software updates	Component creation by simply drawing
						Connects separate models into single integrated project
						Rendered walkthrough animations exported to AVI files

[1] Memory capacity when using Microsoft Windows XP and Microsoft Windows 2000 Professional is 4 GB.

[2] Supported/not pre-installed. Microsoft Windows 2000 Professional discontinued by Microsoft.

[3] Available pre-installed starting April 1st.

Screen images courtesy of Autodesk.

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