Solidworks system requirements pdf

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We get a lot of support requests dealing with which computer is the best to run SOLIDWORKS. Here are some tips from CATI technicians on the next SOLIDWORKS system. You can also download our latest PDF on solidWORKS system requirements on the right. Operating systemCsonsupported systems:Windows 10, 64-BitWindows 7 SP1, 64-Bit (End of Life: SW2020 SP5)Not supported systems:Windows 8.1, 64-BitWindows 8.0, 64-BitWindows 7 SP1, 32-BitVista Business x64 SP2XP x6432 bits of WindowsRAM16 GB or more, SOLIDWORKS32 GB or more - recommended for large assembly work and SimulationVideo CardVisit solidworks.com/sw/support/videocardtesting.html for a list of certified cards and drivers. Nvidia quad or AMD FirePro or AMD Radeon Pro.Intergrated Intel HD graphics and game cards (Nvidia GeForce, for example) are not certified or recommended. The quad NVS is not recommended; They are 2D only cards. While a certified graphics card is important, SOLIDWORKS is a CPU-related app, you'll see more revenue from performance improvements from a faster processor. For SOLIDWORKS 2019, the new performance pipeline requires the Nvidia quad series of Kepler, Maxwell, Pascal and Volta cards that support OpenGL 4.5.CPU3.3GHz or HigherCurrent Generation Intel or AMD with SSE2 support processor - as fast as you can afford. The Intel i7 Generation 8 Coffee Lake series are the fastest processor today. SOLIDWORKS will use multi-core and multi-core architectures of up to 4 cores. All SOLIDWORKS Simulation products use multi-core and multidisciplinary processor architectures. Hard DriveSata Controlled SSD (solid disk condition) is recommended at a minimum. The new PCIe M.2 drives are highly recommended for the main drive. Disk SpacePDM Contributor or Viewer: 10 GB or more PDM Web Client or Web Server: 5 GB or more PDM Archive Server or Database Server: 50 GB or more SOLIDWORKS Manage: 10 GB or moreMicrosoft ProductsStart of LifeEnd of Life 1Windows 10, 64-bit2015 SP5ActiveWindows 8.1, 64-bit2014 SP12018 SP5Windows 7, 64-bit2010 SP12020 SP5Windows Server 20192019 SP3ActiveWindows Server 20162017 SP2ActiveWindows Server 2012 R22014 SP32019 SP5Windows Server 20122014 SP02018 SP5SQL Server 20172018 SP0ActiveSQL Server 20142015 SP02021 SP5SQL Server 20122013 SP22019 SP5IE 112014 SP3ActiveExcel, Word 2019 (64-bit recommended)2019 SP2ActiveExcel, Word 2016 (64-bit recommended)2016 SP3ActiveExcel, Word 20132013 SP42020 SP5Excel, Word 20102010 SP52018 SP5macOS Catalina (10.15)eDrawings 2020ActivemacOS Mojave (10.14)eDrawings 2019ActivemacOS Sierra (10.12)eDrawings 2017eDrawings 2019OS X El Capitan (10.11)eDrawings 2017eDrawings 2018OS X Yosemite (10.10)eDrawings 2016eDrawings 2018 few laptops that have the certified graphics cards for SolidWorks :LaptopsBoxx MXL Ноутбуки. Dell То縣ность мобильных рабочих станций. HP EliteBook мобильный мобильный Thinkpad W series. BenchmarksSOLIDWORKS has created a benchmark to measure the performance of the system. other SOLIDWORKS users have for the hardware and their performance to make a more informed decision. Notes: While these recommendations are a good starting point for the solidWORKS specification machine, it's always a good idea to conduct your own hardware/software tests before buying any workstation, computer hardware or graphics card for SolidWorks.End Of Life (EOL) meets the latest solidworks release, where the Microsoft product is supported (it's synchronized with Microsoft Mainstream Graduation Date). SOLIDWORKS releases after EOL is not supported for said product Microsoft and SOLIDWORKS installation are blocked in the case of the operating system. The SOLIDWORKS product supportcycle determines the end of solidworks support. SolidWorks recommends using Microsoft's latest Windows Update, Office and Internet Explorer.SolidWorks supports every release of Windows 10 for applicable SOLIDWORKS releases as long as it is still covered by both SOLIDWORKS Lifecycle Product Support Service and Microsoft's Windows Lifecycle Fact Sheet.SolidWorks recommends using the Windows Server operating system for all SOLIDWORKS-based products. Home editions of Windows and Windows To Go are not supported. SOLIDWORKS 2018 on Windows 8.1 and Windows Server 2012 R2 requires Microsoft updates in April 2014. For PDM Professional, it is recommended that Archive and Database servers be two separate dedicated machines. To ensure optimal performance, it is not advisable to install antivirus software on your SOLIDWORKS PDM computer. SolidWorks does not test or certify VPNs (Virtual Private Network) solutions, but provides the best support efforts. Users may be instructed to work directly with their VPN provider to solve problems on a case-by-case basis. Starting with SOLIDWORKS 2020, DVD distribution channels will be available only on request. Please contact your reseller. Processor: 3.3 GHz or faster, Intel® Core i5, i7 or equivalent operating system AMD® : Windows® 10 and 7 (2020 is the last year to support Windows 7) Memory: 8GB or more required hard disk: Standard or hard drive (SSD) 250 GB, keeping 10% drive capacity of free space Graphics cards: NVIDIA® quadr® P2200 small builds (200 or fewer components) and drawings. This system will support part and assembly modeling, including linear statistics, heat, frequency, fatigue and optimization. Disruption and contact modeling will be small builds that contain simple components. This system will also support simple flow simulations. Basic system processor: 3.3 GHz or faster, Intel® Core i7, Xeon or equivalent of AMD® Operating System : Windows® 10 and 7 (2020 is the last year to support Windows 7) Memory : 16GB or more as needed Hard Drive: Solid State Drive (SSD) 250GB, retaining 10% drive capacity of free space Graphics cards: NVIDIA® quad® RTX 4000 system for complex parts with advanced shapes, large patterns, shells, 200 features. This system is also designed for assemblies containing 200-1000 components and drawings. This system will support part and assembly modeling, including nonlineous, speakers, random vibrations along with moderate spaces and contacts. This system will also support moderate flow modeling. Advanced System Processor: 3.3 GHz or faster, Intel® Core i7, Xeon or equivalent of AMD® Operating System : Windows® 10 and 7 (2020 is the last year to support Windows 7) Memory: 32GB or more as needed Hard Drive: Solid State Drive (SSD) 250GB, retaining 10% of the drive capacity of free space Graphics cards: NVIDIA® quadro® RTX 5000, RTX 6000, RTX 8000 system for very complex parts with advanced coating or hybrid modeling features. The system is also designed for assemblies containing 1,000 to 200,000 components. This system will support great complex analysis and simulation of large threads. Minimum Equipment Requirements for SOLIDWORKS 2020: Minimum Requirements can be found on the SOLIDWORKS System Requirements website. Video: The recommended openGL graphics card and driver. To list recommended graphics cards and driver combinations, visit the SOLIDWORKS System/Graphics Card Requirements website. processor: Intel® or AMD® SSE2-enabled. A 64-bit operating system is required. SOLIDWORKS can be done to work on apple Mac® based on machines running under Parallels or BootCamp. This is not the recommended hardware configuration. NOTE: Non-server products are supported only in the Parallels environment. eDrawings® is supported on the Apple Macintosh ®. Other: Mouse or other pointing device. DVD or broadband Internet connection Microsoft Excel 2013, 2016 or 2019 Internet Explorer version 11 or Microsoft Edge Anti-Virus (Network: SOLIDWORKS is tested only with Microsoft Windows Networking and Active Directory Network Environment. Novell networks and non-Windows-based storage devices are not supported. OS: Window 10® (SOLIDWORKS 2015 SP5) Note: Windows Home, Small Business and To Go not supported. Windows 7® 64-bit professional or big editions only (2020 is the last year to support Windows 7) SNL Server Server Windows 7®, 10® Windows Server 2016®, 2019® Virtual servers are supported for SNL only listed here (. PDM Professional, Standard: System requirements for PDM can be found here End of Life Product Info System Samples Minimum System System from Dell® your desktop or laptop must meet the recommended specification levels for effective launch of SOLIDWORKS 3D CAD software. There are many variables to consider and choosing the right computer to work can be a very confusing process. This guide will allow you what to look for whether you're tweaking a new Windows machine from scratch, or buying from a shelf model from retailers such as our preferred supplier, Dell. We also recommend a few well spec'd workstations that will work SOLIDWORKS perfect for most users, so, without further ado... SolidWORKS memory/RAM models and drawings will require more RAM (Random Access Memory) to load efficiently. This applies mainly to the size of the datasets that need to be downloaded when using the software. If the machine runs out of memory, file download times can increase dramatically due to hard drive caching. It's important to provide enough RAM in your car for the typical size of the datasets. For example, regular simulations with a large amount of data increase the need for RAM, because large amounts of data are usually required during calculations. The minimum amount of RAM recommended by SOLIDWORKS: 16GB When you start modeling or working with large datasets, we recommend at least 32GB. You can walk to 64GB, but if you're at a point where you need that much, you might want to consider simplifying modeling research! The SOLIDWORKS Graphics Card/GPU requires a professional, fully certified graphics card that controls the OpenGL engine for proper operation (e.g. Nvidia quadro and AMD RadeonPro). SOLIDWORKS is known to work on game graphics cards that use DirectX (e.g. AMD Radeon and Nvidia Geforce card ranges), however users may experience frequent graphic glitches and features of the software as Realview Graphics will not function properly, if at all. When working with visually complex models (such as models with large patterns or lots of textures), SOLIDWORKS will need a graphics card with a lot of memory on board. A good graphics card is one of the most important elements for an effective run however, it is important to make sure that there is an effective balance between the graphics card and the processor. The high end of the graphics card will not be able to work effectively if paired with an entry-level processor. It is also very important to make sure that the graphics driver supported for use with SOLIDWORKS. This can be verified by opening SOLIDWORKS RX in the start menu, and moving to the diagnostic tab, the diagnostic results will show whether the driver is out of date. The button will allow you to download the supported driver, if any. SOLIDWORKS doing their own graphics card testing without using a certified driver is known to cause graphic software failures. If you use SOLIDWORKS Visualize on a regular basis, you may also want to consider the nvidia Pascal Series graphics card or new (look for model cards starting with P/T/GV/GP/RTX). You can then take advantage of Visualize Denoiser, which can give up to 10X faster performance. As for the memory of the onboard graphics card, we recommend a minimum of 4GB for general use. Today's processor/processor consists of several cores within a single chip. SOLIDWORKS, however, is predominantly one major application - the restoration of models is a linear process, because of the wood design in the model. That's why most users will find that it's more efficient to buy faster processors with fewer cores. Some processes in SOLIDWORKS use multiple cores, such as opening and restoring drawings with multiple views. Rendering also uses multiple cores and works effectively with eight or twelve. The simulation will also use more cores - most effectively with two or four cores, but any benefits above that level are reduced. If you often use these features, we recommend that you consider getting a processor with a large core. Typically, we try to recommend the latest Intel i7 or Xeon processors to our customers so that they can handle a wide range of features in SOLIDWORKS. Hyper threading can be turned off in bios according to the use of the software - this will reduce the number of cores. Turbo boost can also be enabled to improve the performance of one of the cores. Storage (HDD/SSD) When it comes to choosing a hard drive size (HDD) for SOLIDWORKS, we recommend starting at at least 256GB and working your way up to the greatest size you can afford. For maximum performance, we recommend selecting the main Solid State Drive (SSD) or M.2 drive to run SOLIDWORKS (and Windows) and the secondary SSD, which is used to store everything else. This ensures that models, builds, etc. are loaded and save as quickly as possible. If you can only afford one SSD or M.2 drive, make sure you use it to install software like this will give you the best kick for your buck. You can always buy a second mechanical HDD, spinning at 7200RPM (or above) to store files. If you've already spent research, you may have noticed that some machines come with the M.2 Warehouse. This is the latest standard in data storage, and those labeled NVMe (rather than SATA) use a different way With a computer. These storage devices are a step up again from the SSD and are usually much faster if the budget is not a problem and you are looking for the best possible indicators, you may want to consider these machines with M.2 Warehouse. We don't recommend this specification if you want to work on more than 200 components, however. Laptop: Dell Precision 7530 Intel Core i5-8400H (quad-core processor 2.50 GHz, 4.20 GHz Turbo, 8MB 45W) Windows 10 Pro 64bit NVIDIA quad P1000 w/4GB GDRD5 16GB, 2X8G, DDR4 2666 MHz Memory M.2 256GB PCIe NVMe Class 40 SSD Desktop: Dell Precision 3630 Tower Intel Core i7-9700, (8 Core, 12MB Cash, 3.0Ghz, 4.7 Ghz Turbo w/UHD Graphics 630) Windows 10 Pro64bit AMD Radeon Pro WX 3200, 4GB, 4 mDP (FWS) 16GB 2X8GB DDR4 2666 MHz UDIMM Non-ECC Memory M.2 256GB PCIe NVMe Class 40 Solid State Drive AMD Radeon Pro WX 3200 These machines will work well with average data sets with no more than 500 simple components. Perfect for general use of SOLIDWORKS and some light visualization. Laptop: Dell Precision 7530 Intel Core i7-8850H (six basic 2.60 GHz, 4.30 GHz Turbo, 9MB 45W) Windows 10 Pro 64bit NVIDIA quad p2000 w/4GB GDDR5 32GB, 2x16GB, DDR4 2666 MHz Memory M.2 256GB PCIe NVMe Class 40 SSD Desktop: Dell Precision 3630 Tower Intel Xeon E-2274G, 4 Core, 8MB Cash, 4.0Ghz, 4.9Ghz Turbo w/UHD Graphics 630 Windows 10 Pro for Nvidia workstation quad P2200, 5GB, 4 DP (3630) 16GB 2X8GB DDR4 26 MHz UDIMM Non-ECC Memory M.2 256GB PCIe NVMe Class 40 Solid State Drive If Money is not an object and/or you are looking for maximum performance, these machines will do it all: Rendering, large SOLIDWORKS builds and sophisticated simulations will be handled with ease. Laptop: Dell Precision 7740 Intel® Core™ i7-9850H Processor (6 Core, 12M Cache, 2.60 GHz to 4.6 GHz Turbo, 45W, vPro) Windows 10 Pro 64 Nbit Nvidia quad RTX 4000 w/8GB GDDR6 32GB, 2x16GB, DDR4 2666 MHz Memory M.2 512GB PCIe NVMe Class 40 Solid State Drive Desktop: Dell Precision 5820 Intel Tower® Core™ i9-10900X 3.7 GHz, 4.7 GHz Turbo, 10C, 19.25MB Cash, HT, (165W), DDR4-2666 Non-ECC Windows 10 Pro, 64bit Nvidia quad RTX4000, 8GB 32GB 4x8GB D DR4 4 2666 MHz UDIMM Non-ECC Memory 2.5 512GB SATA Class 20 Solid State Drive SOLIDWORKS is not officially supported on Apple Mac, but we have developed a reliable solution for this, which is currently used by many of our customers. More on this here: How to run SOLIDWORKS on Apple Mac Given the new SOLIDWORKS workstation? Fill out the form or call us at (01223) 200690 for more information. We hope you have found our solidWORKS system article Useful! Have you seen our blog archive where we posted useful articles? 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