Dell Precision Workstation Product Recommendations

Dassault Systemes Solidworks

Entry
Precision 3260 Compact

For the professional who works on light to moderately complex part design and light to medium sized assemblies, creates detailed drawings, schematic diagrams, and BOMs, and runs first pass Finite Element and Kinematic Analyses.

- Intel® Core™ i7-12700 Processor, 25MB Cache, 12 (8P+4E) Cores, 2.1GHz to 4.9GHz, 65W
- 32 GB, 2 x 16 GB, DDR5, 4800 MHz
- NVIDIA® T1000, 4 GB GDDR6, low profile, 4 mDP to DP adapters or AMD Graphics None *
- 1 TB, M.2, Gen 4 PCIe NVMe, SSD
- Windows 10/11 Pro or Windows 10/11 Pro for Workstations
- 3 Years ProSupport with Next Business Day Onsite Service

Customize & Buy

Standard
Precision 3660 Tower

For the professional who works on light to moderately complex part design and light to medium sized assemblies, creates detailed drawings, schematic diagrams, and BOMs.

- Intel® Core™ i7-12700K Processor 25MB Cache, 12 (8P+4E) Cores , 3.6GHz to 5.0GHz, 125W
- 32 GB, 2 x 16 GB, DDR5, 4400 MHz, ECC
- NVIDIA RTX A2000 12GB, 12GB, 4 mDP (Precision 3660) or AMD® Radeon™ Pro WX 3200, 4 GB GDDR5, 4 mDP
- 1TB PCIe NVME™ Class 40 Gen4 M.2 SSD
- Windows 10/11 Pro or Windows 10/11 Pro for Workstations
- 3 Years ProSupport with Next Business Day Onsite Service

Customize & Buy

Advanced
Precision 5860 Tower

For the professional who works on moderately complex part design and medium sized assemblies, creates detailed drawings, schematic diagrams, and BOMs, and runs complex Finite Element and Kinematic Analyses.

- Intel® Xeon® W7-2475X (37.5 MB cache, 20 cores, 40 threads, 2.6 GHz to 4.8 GHz Turbo, 225 W)
- 64GB, 4x16GB, DDR5, 4800MHz, RDIMM ECC Memory
- NVIDIA® RTX™ A4500, 20 GB GDDR6, 4 DP or AMD Radeon Pro W6600, 8 GB GDDR6, 4 DP
- 1 TB, M.2, PCIe NVMe, SSD, Class 40
- Windows 10/11 Pro or Windows 10/11 Pro for Workstations
- 3 Years ProSupport with Next Business Day Onsite Service

Customize & Buy

Ultimate
Precision 7865 Tower

For the professional who works on complex part design and light to large size assemblies, creates detailed drawings, schematic diagrams, and BOMs, and runs complex Finite Element and Kinematic Analyses.

- AMD Ryzen Threadripper PRO 5955WX (64 MB cache, 16 cores, 32 threads, 4.0GHz to 4.5GHz, 280 W)
- 128GB, 8x16GB, DDR5, 4800MHz, RDIMM ECC Memory
- NVIDIA® RTX™ A5500, 24 GB GDDR6, 4 DP or AMD Radeon Pro W6800, 32 GB GDDR6, 6 mDP
- 1 TB, M.2, PCIe NVMe, SSD, Class 40
- Windows 10/11 Pro or Windows 10/11 Pro for Workstations
- 3 Years ProSupport with Next Business Day Onsite Service

Customize & Buy

If using Solidworks Visualize upgrade graphics card / system for dramatically improved rendering performance, minimum of NVIDIA RTX A4000 or AMD Radeon Pro WX 6800 is recommended. Higher end or multiple graphics cards can further improve performance.

Entry
Precision 3581

For the professional using SolidWorks Standard who works on light part design and light assemblies single parts, creates detailed drawings, schematic diagrams, and BOMs and wants good mobility

- Intel® Core™ i7-13700H, vPro® Essentials (24MB Cache, 14 Cores, 20 Threads, 2.4-5.0 GHz Turbo, 45W)
- 32 GB, 2 x 16 GB, DDR5, 4800 MHz
- NVIDIA® RTX A1000 6GB, GDDR6 Graphics Card
- 512 GB, M.2 2280, Gen 4 PCIe NVMe SSD, Class 40
- 15.6" FHD 1920 x 1080, 60 Hz, 250 nits, non-touch, IR FHD EMZA Camera and Mic with WLAN + 4G WWAN
- Windows 10/11 Pro or Windows 10/11 Pro for Workstations
- 3 Years ProSupport with Next Business Day Onsite Service

Customize & Buy

Standard
Precision 5770

For the professional using SolidWorks Professional who works on light to moderately complex part design and light to medium sized assemblies, creates detailed drawings, schematic diagrams, BOMs and occasional visualization desiring maximum mobility.

- Intel® Core™ i7-12700H, vPro® Essentials (24MB, 14 core 20 thread, 2.30-4.70GHz Turbo, 45W)
- 32 GB, 2 x 16 GB, DDR5, 4800 MHz
- NVIDIA RTX A3000, 12 GB DDR6
- 1 TB, M.2 2280, Gen 4 PCIe x4 NVMe, SSD
- 17" UHD+ touch, 3840 x 2400, 60Hz, 500 nits WLED, 100% sRGB, Low BL w/ IR Cam
- Windows 10/11 Pro or Windows 10/11 Pro for Workstations
- 3 Years ProSupport with Next Business Day Onsite Service

Customize & Buy

Advanced
Precision 7680

For the professional using SolidWorks Premium who works on moderately complex part design and complex assemblies, creates detailed drawings, schematic diagrams, BOMs, complex simulation and occasional visualization and wants a balance of mobility

- Intel® Core™ i7-13850HX (30MB Cache, 28 Threads, 20 Cores (8P+12E) up to 5.3GHz, 55w, vPro)
- 64GB, 2x32GB 5200MHz SODIMM, non-ECC
- NVIDIA RTX™ 5000 Ada 16GB GDDR6
- 512 GB, M.2 2280, Gen 4 PCIe x4 NVMe, SSD
- 16-inch, OLED UHD+ 3840 x 2400, 60 Hz, Anti-Glare, Touch, 100% DCIP3, 400 Nits, IR Cam/Mic WLAN
- Windows 10/11 Pro or Windows 10/11 Pro for Workstations
- 3 Years ProSupport with Next Business Day Onsite Service

Customize & Buy

Ultimate
Precision 7780

For the professional, using SolidWorks Premium who works on complex part design and large assemblies, creates detailed drawings, schematic diagrams, BOMs complex simulation and visualization using SolidWorks Visualize including VR

- Intel® Core™ i9-13950HX (36MB Cache, 32 Threads, 24 Cores (8P+16E) up to 5.5GHz, 55w, vPro)
- 64GB, 2x32GB 5200MHz SODIMM, non-ECC
- NVIDIA RTX™ 5000 Ada 16GB GDDR6
- 1 TB, M.2 2280, Gen 4 PCIe x4 NVMe, SSD
- 17" UHD 3840x2160 WLED WVA, 120Hz, anti-glare, non-touch, 99% DCI-P3, 500 nits, IR Camera, with Mic
- Windows 10/11 Pro or Windows 10/11 Pro for Workstations
- 3 Years ProSupport with Next Business Day Onsite Service

Customize & Buy

If using Soldworks Visualize upgrade graphics card / system for dramatically improved rendering performance, minimum of NVIDIA RTX 4000 Ada or RTX 5000 Ada recommended.

Please read the use case descriptions thoroughly to identify the appropriate recommendation for your usage. Recommendations are starting points and your requirements may vary. For more information see - **Precision Workstations**. **Dell Precision Engineering and Manufacturing Quick Reference Guide**, **Dell Precision Certifications**