Dell Precision Workstation Product Recommendations

Data Science & AI Development NVIDIA AI Enterprise Software and Stack

FIXED WORKSTATIONS

Entry

Precision 3280 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.

CPU: Intel® Core™ i7 14700 (33 MB cache, 20 cores, 28 threads, up to 5.4 GHz Turbo, 65 W)

Memory: 32 GB: 2 x 16 GB, DDR5, 5600MT/s, SO-DIMM, ECC

Graphics: AMD Graphics None *AMD Graphics None * Nvidia RTX 2000 Ada, 16 GB GDDR6, 4 mDP to D

Storage: 1 TB, M.2, Gen 4 PCIe NVMe, SSD

OS: Windows 10/11 Pro or Windows 10/11 Pro for Workstations

Support: 3 Years ProSupport with Next Business Day Onsite Service

Standard

Precision 3680 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.

CPU: Intel® Core™ i7 14th Gen 14700 (33 MB cache, 20 cores, 28 threads, 2.1 GHz to 5.4 GHz, 65W)

Memory: 32GB: 2 x 16 GB, DDR5, 4400 MT/s, ECC

Graphics: AMD® Radeon™ Pro WX 3200, 4 GB GDDR5, 4 mDPAMD® Radeon™ Pro WX 3200, 4 GB GDDR5, 4 mDP NVIDIA® RTX™ A2000 12GB, 12 GB GDDR6

Storage: 1 TB, M.2 2280, Gen 4 PCIe NVMe, SSD

OS: Windows 10/11 Pro or Windows 10/11 Pro for Workstations

Support: 3 Years ProSupport with Next Business Day Onsite Service

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.

CPU: Intel® Xeon® W7-2475X (37.5 MB cache, 20 cores, 40 threads, 2.6 GHz to 4.8 GHz Turbo, 225 W)

Memory: 64GB, 4x16GB, DDR5, 4800MT/s, RDIMM ECC Memory

Graphics: AMD Radeon Pro W6600, 8 GB GDDR6, 4 DPAMD Radeon Pro W6600, 8 GB GDDR6, 4 DP NVIDIA® RTX™ A4500, 20 GB GDDR6, 4 DP

Storage: 1 TB, M.2, PCIe NVMe, SSD, Class 40

OS: Windows 10/11 Pro or Windows 10/11 Pro for Workstations

Support: 3 Years ProSupport with Next Business Day Onsite Service

Ultimate

Precision 7875 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.

CPU: AMD Ryzen Threadripper PRO 7955WX (64 MB cache, 16 cores, 32 threads, 4.5GHz to 5.3GHz, 350 W)

Memory: 128 GB: 8 x 16 GB, DDR5, 4800 MT/s, RDIMM, ECC

Graphics: AMD Radeon Pro W6800, 32 GB GDDR6, 6 mDP NVIDIA® RTX™ 6000 Ada, 48 GB GDDR6, 4 DP

Storage: 1 TB, M.2, PCIe NVMe, SSD, Class 40

OS: Windows 10/11 Pro or Windows 10/11 Pro for Workstations

Support: 3 Years ProSupport with Next Business Day Onsite Service

Please read the use case descriptions thoroughly to identify the appropriate recommendation for your usage. Recommendations are starting points and your requirements may vary.

View Mobile Workstations

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MOBILE WORKSTATIONS

Entry

Precision 3591 Mobile

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.

CPU: Intel® Core™ Ultra 7 155H vPro® Essentials (24 MB cache, 16 cores, 22 threads, up to 4.8 GHz, 45W)

Memory: 32 GB: 2 x 16 GB, DDR5, 5600 MT/s, non-ECC

Graphics: NVIDIA RTX 1000 Ada Generation, 6 GB GDDR6

Storage: 512 GB M.2 PCIe NVMe Gen 4 2280 SSD

OS: Windows 10/11 Pro or Windows 10/11 Pro for Workstations

Support: 3 Years ProSupport with Next Business Day Onsite Service

Standard

Precision 5690 Mobile

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.

CPU: Intel® Core™ Ultra 7 155H vPro® Essentials (24 MB cache, 16 cores, 22 threads, up to 4.8 GHz, 45W)

Memory: 32GB LPDDR5x 7467 MT/s

Graphics: NVIDIA® RTX™ 3500 Ada 12GB GDDR6

Storage: 1 TB, M.2 2280, Gen 4 PCIe NVMe, SSD, Class 40

OS: Windows 11 Pro, English, Brazilian Portuguese, French, Spanish

Support: 3 Years ProSupport with Next Business Day Onsite Service

Advanced

Precision 7680 Mobile

For professionals using SolidWorks Premium for complex part design, assemblies, detailed drawings, simulations, and a balance of mobility and performance.

CPU: Intel® Core™ i7-13850HX (30MB Cache, 28 Threads, 20 Cores (8P+12E) up to 5.3GHz, 55w, vPro)

Memory: 64GB, 2x32GB 5200MT/s SODIMM, non-ECC

Graphics: NVIDIA RTX™ 5000 Ada 16GB GDDR6

Storage: 512 GB, M.2 2280, Gen 4 PCIe x4 NVMe, SSD

OS: Windows 10/11 Pro or Windows 10/11 Pro for Workstations

Support: 3 Years ProSupport with Next Business Day Onsite Service

Ultimate

Precision 7780 Mobile

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.

CPU: Intel® Core™ i9-13950HX (36MB Cache, 32 Threads, 24 Cores (8P+16E) up to 5.5GHz, 55w, vPro)

Memory: 64GB, 2x32GB 5200MT/s SODIMM, non-ECC

Graphics: NVIDIA RTX™ 5000 Ada 16GB GDDR6

Storage: 1 TB, M.2 2280, Gen 4 PCIe x4 NVMe, SSD

OS: Windows 10/11 Pro or Windows 10/11 Pro for Workstations

Support: 3 Years ProSupport with Next Business Day Onsite Service

For more information see: Precision Workstations | Dell Precision Engineering and Manufacturing Quick Reference Guide | Hardware Certification

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View Fixed Workstations