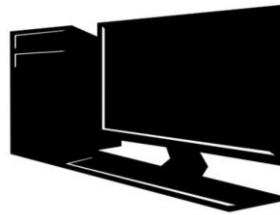


SOLIDWORKS Recommended Hardware Guide

TITLE:	SOLIDWORKS Recommended Hardware Guide
DATE:	September 2024
SUBJECT:	Hardware, laptops, desktops
ABSTRACT:	Out-of-the-box computer recommendations for SOLIDWORKS



This guide is intended to assist in the selection of an OEM/off the shelf system for use with SOLIDWORKS. The recommendations are intended as advice for a general audience. The systems specified are extensions of the recommendations found on the [SOLIDWORKS website](#) and are based on available hardware, internal testing, and customer support experience.

Potential upgrades and their benefits are also listed by component type. These upgrades are intended for advanced users seeking to optimize their system.

This guideline applies to most SOLIDWORKS products. For specialty products, please see the links at the end of this document.

Contents

Hawk Ridge Systems Recommended System Summary	2
Upgrades For Advanced Users	3
Other Product Hardware Guidelines.....	4

Hawk Ridge Systems Recommended System Summary

Notebook PCs	
Out-Of-Box Solutions	Lenovo ThinkPad P16v Gen 2 Dell Precision Mobile Workstations HP ZBook Power G11
Operating System	Windows 11 Professional 64-Bit
Graphics Card	NVIDIA RTX A500 /NVIDIA RTX 1000 ada
Processor	Intel Core™ Ultra 7
RAM	32GB
Storage	512GB SSD
Other (Required)	Microsoft Office 2021, 3-Button Mouse with Scroll Wheel

Desktop PCs	
Out-Of-Box Solutions	Lenovo ThinkStation P3 Tower Dell Precision Desktop Workstations HP Z2 Tower G9
Operating System	Windows 11 Professional 64-Bit
Graphics Card	NVIDIA T1000 /RTX A2000
Processor	13th/14th Generation Intel Core™ i7 processor
RAM	32GB
Storage	512GB SSD
Other (Required)	Microsoft Office 2021, 3-Button Mouse with Scroll Wheel

Upgrades For Advanced Users

Certain cases require upgraded hardware. These include:

- Working with large assemblies and/or complex models
- Extensive multi-tasking (Multiple programs running simultaneously)
- Heavy Visualize usage
- Heavy Simulation or Flow Simulation usage

These upgrades are listed with their associated benefits. Special attention should be paid to the usage case to eliminate bottlenecks.

Component	Benefits	Notebook	Desktop
RAM	General Performance, Multi-Tasking, Capacity (Model, Rendering and Simulation Size/Complexity), Rendering and Simulation Speed	64-128GB+	64-128GB+
Processor	Rebuilding Features, General Performance, Simulation Solving and Meshing Speed, Multi-tasking, Open/Save, Rendering Speed	Intel Core™ Ultra 9	14th Generation Intel Core™ i9 processor
Storage	Open/Save Speed, Rebuild Time, General Performance	1TB M.2 PCIe SSD	1TB M.2 PCIe SSD
Graphics Card	Display Capacity (Number of Faces and Amount of Data Shown), Rotate/Pan/Zoom performance, Ray Tracing (requires RTX cards)	NVIDIA RTX 2000 Ada-5000 Ada	NVIDIA RTX 4000 Ada-6000 Ada

Other Product Hardware Guidelines

- [SOLIDWORKS and SW Data Management System Requirements](#)
- [Comprehensive Hardware Guide](#)
- [SOLIDWORKS Visualize System Requirements](#)

This information is subject to change without notification. Please make sure you are using the most current version of the document.

For further assistance, please contact our support team at support@hawkridgesys.com, or 877-266-4469 (US) or 866-587-6803 (Canada).