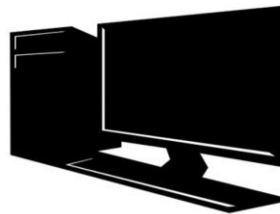


# SOLIDWORKS 2023 Recommended Hardware Guide

TITLE:	2023 Recommended Hardware Guide
DATE:	September 2022
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 2023. 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 2023 products. For specialty products, please see the links at the end of this document.

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# Hawk Ridge Systems Recommended System Summary

Notebook PCs	
Out-Of-Box Solutions	Lenovo ThinkPad <a href="#">P15v Gen 3</a> Dell Precision <a href="#">7670</a> HP ZBook <a href="#">Power G9</a>
Operating System	Windows 11 Professional 64-Bit
Graphics Card	NVIDIA <a href="#">T1200</a> /RTX <a href="#">A2000</a> 4GB GDDR5 VRAM
Processor	Intel Core i7-12700H (6 cores, 4.7ghz)
RAM	32GB
Storage	512GB SSD
Other (Required)	Microsoft Office 2016 or 2019, Internet Explorer 11, 3-Button Mouse with Scroll Wheel

Desktop PCs	
Out-Of-Box Solutions	Lenovo ThinkStation <a href="#">P360</a> Dell Precision <a href="#">3660</a> HP <a href="#">Z2 Tower G9</a>
Operating System	Windows 11 Professional 64-Bit
Graphics Card	NVIDIA <a href="#">T1000</a> /RTX <a href="#">A2000</a> 4GB GDDR5 VRAM
Processor	Intel i7-12700 (8 cores, 4.9ghz)
RAM	32GB
Storage	512GB SSD
Other (Required)	Microsoft Office 2016 or 2019, Internet Explorer 11, 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	64GB/128GB	64GB/128GB
Processor	Rebuilding Features, General Performance, Simulation Solving and Meshing Speed, Multi-tasking, Open/Save, Rendering Speed	Intel Core <a href="#">i9-12900H</a> (8 Cores, 5.00ghz)	Intel Core <a href="#">i9-12900</a> (8 Cores, 5.1ghz)
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 A2000-A5000	NVIDIA RTX A2000-A5000

## Other Product Hardware Guidelines

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