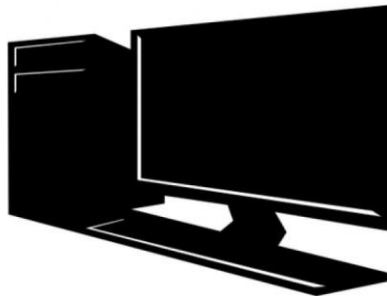


SOLIDWORKS 2020 Recommended Hardware

TITLE:	2020 Recommended Hardware
DATE:	August 2020
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 2020. 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 2020 products. For specialty products, please see the links at the end of this document.

©2019 Hawk Ridge Systems

Contents

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

Hawk Ridge Systems Recommended Systems

Laptops	
Laptop Models	<ul style="list-style-type: none"> • Lenovo ThinkPad P53 • Dell Precision 7550 • HP ZBook 15
Operating System	Windows 10 Professional 64-Bit
Graphics Card	NVIDIA Quadro T1000 4GB
Processor	<ul style="list-style-type: none"> • Intel Core i7-9750H (6 cores, 2.6ghz-4.5ghz) (9th gen) • Intel Core i7-10850H (6 cores, 2.7ghz-5.1ghz) (10th gen)
RAM	16GB
Storage	512GB SSD
Other (Required)	Microsoft Office 2013 or newer, 3-Button Mouse with Scroll Wheel, 1080p screen
Desktops	
Desktop Models	<ul style="list-style-type: none"> • Dell Precision 3640 • HP Z2 • Lenovo ThinkStation P330
Operating System	Windows 10 Professional 64-Bit
Graphics Card	NVIDIA Quadro P2200 5GB
Processor	<ul style="list-style-type: none"> • Intel i7-9700K (8 cores, 3.6ghz-4.9ghz) (9th gen) • Intel i7-10700K (8 cores, 3.8ghz-5.1ghz) (10th gen)
RAM	16GB
Storage	512GB SSD
Other (Required)	Microsoft Office 2013 or newer, 3-Button Mouse with Scroll Wheel, 1080p screen

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 use-case to eliminate bottlenecks.

Component	Benefits	Laptop	Desktop
RAM	<ul style="list-style-type: none"> • General Performance • Multi-Tasking • Capacity (Model, Rendering and Simulation Size/Complexity) • Rendering and Simulation Speed 	32GB or more	32GB or more
Processor	<ul style="list-style-type: none"> • Rebuilding Features • General Performance • Simulation Solving and Meshing Speed • Multi-tasking • Open/Save • Rendering Speed (PhotoView360 only) 	<ul style="list-style-type: none"> • Intel i9-9880H(8cores, 2.3ghz-4.8ghz) (9th gen) • Intel i9-10885H(8cores, 2.4ghz-5.3ghz)(10th gen) 	<ul style="list-style-type: none"> • Intel i9-9900K(8cores, 3.6ghz-5ghz) (9th gen) • Intel i9-10900K (10cores, 3.7ghz-5.3ghz) (10th gen)
Storage	<ul style="list-style-type: none"> • Open/Save Speed • Rebuild Time • General Performance 	1TB NVME M.2	1TB NVME M.2
Graphics Card	<ul style="list-style-type: none"> • Display Capacity (Number of Faces and Amount of Data Shown) • Rotate/Pan/Zoom performance • Ray Tracing performance(Visualize only) 	NVIDIA Quadro RTX3000-RTX6000	NVIDIA Quadro RTX4000-RTX8000
OEM Solution		<ul style="list-style-type: none"> • Lenovo P73 • Dell Precision 7750 • HP ZBook 17 	<ul style="list-style-type: none"> • Lenovo 520C • Dell Precision 5820 • HP Z4

Other Product Hardware Guidelines

- [SOLIDWORKS System Requirements](#)
- [SOLIDWORKS PDM System Requirements](#)
- [Comprehensive Hardware Guide](#)
- [SOLIDWORKS PCB System Requirements](#)
- [SOLIDWORKS Visualize System Requirements](#)