System Requirements for V30

* Subject to change. Updated system requirements can be found on the Cadwork website.

General:

This document is the minimum configuration for version 30. A minimum configuration for V30 will not necessarily be supported in future versions.

Operating System:

cadwork supports Windows® 10 and Windows® 11 64-bit. cadwork recommends Windows® 10 or Windows® 11 Pro, Home or Enterprise. Windows® 8.1 will be no more compatible from version 30 onwards due to the end of support provided by Microsoft on 10 January 2023.
All other systems are **not compatible** with cadwork version 29 and higher (Windows 7, Apple, etc.).

Processor:

cadwork supports all Intel® processors from Intel® Core™ i7, 5th generation onwards as well as AMD® Ryzen® 3000 series processors. cadwork recommends Intel® Core™ i9, 12th generation or higher, or AMD® Ryzen® 9

cadwork recommends processors with a base frequency of 3.5GHz or higher for workstations and 2.6GHz or higher for laptops.
In general, frequency is more beneficial than the number of processor cores.

Customer feedback has shown that Intel® Xeon® processors provide less performance than an Intel® Core™ processor.

Graphics Card:

cadwork supports NVIDIA Quadro® RTX, RTX A series graphics cards or NVIDIA GeForce® RTX series. Graphics cards should have a minimum of 4GB video memory.

The release date of the graphics card drivers must be recent (less than 6 months). We recommend "Download Type: Production Branch / Studio" drivers.
A graphics card with relatively old technology can cause problems after a version change. The reasons are that manufacturers may no longer provide up-to-date drivers, or the card technology may no longer be compatible with our graphical kernel (Hoops).

For use with multiple displays (2 or more), we recommend the NVIDIA Quadro® RTX series or NVIDIA GeForce® RTX. They have been tested and work with appropriate graphics card drivers.

All other cards have not been tested and may therefore have problems with display and/or performance.

Intel® Iris® Xe graphics cards are not recommended.

Displays:

Experience shows that using multiple displays saves a lot of time and improves productivity, both for cadwork and when using the PC for other purposes. Therefore, you should look for the presence of 2 (or more) video outputs on your graphics card.
You will need to ensure that the minimum resolution is 1920x1080 pixels. All monitors should use the same resolution and scaling in Windows.
4K displays do not offer any advantage currently.

The use of a Docking Station can cause problems when using cadwork. The screens must be connected **directly** to the graphics card.

Memory (RAM):

A minimum of 16GB of memory is required. We strongly recommend 32GB or more for optimal performance.
When using the IFC interface for BIM (Building Information Modelling) projects, 32GB is the minimum. In some cases, 64GB of RAM will be required.
In general, you should not try to save on memory.

Solid State Drives:

Nowadays, the operating system as well as the programs used daily should be located on an SSD because the access times (backup, data reading, etc.) will be reduced. The disk containing the Windows® partition should have a minimum capacity of 256GB. A second disk with a capacity of 512GB can also be installed. If your data is on a network share, the second disk may not be necessary.
A minimum of 20GB of free space on all disks (networked and local) must be present in order to ensure proper functionality of cadwork (backup, installation, updates, etc.).

HDDs are not recommended for cadwork version 30.

Internet and Network:

A high-speed internet connection for weekly updates of the software and online technical support via TeamViewer is required. At least one computer in the office should have access to that internet connection.
For saving on a network share, or sharing catalogues and user files, a Gigabit network is recommended.

Mouse and Keyboard:

A mouse with at least 3 clickable buttons is required. Left, Middle and Right clicks are used everywhere in the software.
For laptops, a keyboard with an integrated numpad is highly recommended, the same goes for an external keyboard.

Photogrammetry/Point Cloud:

To ensure working performance, the minimum range in the table below is not compatible.

Minimum and Recommended Recommendations for the Purchase of a New PC

For 3D Timber Use (Not Valid Without Preceding Pages of This Document)

Workstations	Minimum Range	Optimum Range	High Range
Processor	Intel® Core™ i7 3GHz+	Intel® Core™ i7-13700k 3.7 GHz (5.0GHz)	Intel® Core™ i9-13900k 3.0 GHz (5.8GHz)
OS	Windows® 11 64Bit	Windows® 11 Pro 64Bit	Windows® 11 Pro 64Bit
Memory	16GB	32GB	64GB or 128GB
SSD	512GB SSD	1TB SSD	2TB SSD
Graphics Card	NVIDIA GeForce® RTX Series with 4GB	NVIDIA Quadro® P4000 8GB, NVIDIA GeForce® RTX 3070Ti, 8GB	NVIDIA Quadro® RTX A4500 or higher, 8GB or higher

Laptop	Minimum Range	Optimum Range	High Range
Processor	Intel® Core™ i7 3GHz+	Intel® Core™ i7-13700H 3.5 GHz (5.4GHz)	Intel® Core™ i9-13900H 3.8 GHz (5.4GHz)
OS	Windows® 11 64Bit	Windows® 11 Pro 64Bit	Windows® 11 Pro 64Bit
Memory	16GB	32GB	32GB or 64GB
SSD	512GB SSD	1TB SSD	1TB or 2TB SSD
Graphics Card	NVIDIA GeForce® RTX Series with 4GB	NVIDIA GeForce® RTX 3070Ti 8GB	NVIDIA GeForce® RTX 4080 16GB

Summary:
The required specifications for a computer depend greatly on the type of work (academic, professional, mass timber, panelised construction) and the size of projects that will be worked on. With higher hardware specifications, larger projects can still be handled with decent performance.

Before buying a new PC or a new piece of hardware, Cadwork® recommends contacting the technical support team with detailed hardware specifications of the future purchase in hand.

- Cadwork SA (Semsales): it@cadwork-04.ch
- cadwork Informatic Software GmbH (Hildesheim): support@cadwork.de
- Cadwork Canada (Montréal): montreal@cadwork.ca
- Cadwork Australasia (Alice Spring): support@cadworkaustralasia.com

Your cadwork Team

Thursday, 08 June 2023