



# CADMOULD & VARIMOS

by SIMCON

## SYSTEM REQUIREMENTS

Minimum requirements and recommended hardware  
for CADMOULD v17.0

# System Requirements v17.0

## Introductory remarks

CADMOULD's simulation computations are extremely **efficient and fast, and they scale exceptionally well** when running multiple simulations, thanks to our proprietary **3D-F algorithm** and sophisticated algorithmic optimization under the hood. Most of our customers find that they do not need to acquire new hardware to use CADMOULD, since in most cases the same hardware they use for CAD software is also fully sufficient for CADMOULD. But of course, as with all software, the faster your hardware, the faster CADMOULD and VARIMOS will run.

When it comes to the CPU, two things are of particular importance: the single-thread speed and the number of processor cores. In addition, large and fast memory and an SSD for storage have a positive impact on simulation speed.

### Single-Thread Speed

The **single-thread performance** of your CPU, as well as the speed of **memory throughput**, are important drivers for each solver thread.

### Parallelization: Number of cores and memory performance

Due to CADMOULD's superior CPU efficiency, **variant solving can be parallelized spectacularly well**. You can solve multiple variants of your simulation on several CPU cores concurrently if you have a fast multi-core processor and sufficient amounts of fast RAM.

Additionally, with v16 it is possible to spread a single computation across multiple CPU cores, to maximize single simulation solving speed.

To harness **CADMOULD's unique scaling benefits**, we recommend that you use a solving computer (whether local or server) that has **several cores**, each with **good single thread speed**, fast and large **RAM**, and a performant **SSD**.

## System requirements and recommendations CADMOULD® or VARIMOS® workstations (local or floating)

These are computers where you do both pre- and postprocessing, and also run simulations on the same hardware.

### Software:

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|                   |   |
|-------------------|---|
| Operating system: | 64 Bit-System: Windows® 11 + 10 + 8 + 8.1<br><b>We recommend: Windows® 10 64 Bit</b>  |
| Other:            | Browser (e.g. Microsoft Edge, Chrome, Firefox)<br>to create automatic reports<br><br>Microsoft Office (COM-enabled) to create reports in<br>Powerpoint or Word format |

### Hardware

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|                |   |
|----------------|---|
| CPU:           | Runs on all current Windows® - compatible 64-bit x86<br>architecture processors (Intel or AMD)<br><br><b>We recommend: fast 64-Bit multicore CPU,<br/>e.g. AMD Ryzen 5xxx Series, Intel Core i5, i7, i9, or Xeon of<br/>the most recent generation, ≥ 4 GHz, ideally with ≥8 Cores /<br/>16 Threads</b> |
| Memory:        | Required: 4 GB RAM<br><br><b>We recommend: 16 GB or more</b>  |
| Graphics card: | ≥ 1 GB MEMORY, must support OpenGL  |
| Hard drive:    | ≥ 500 GB<br><br><b>We recommend: 1 TB</b>   |
| Other:         | USB port for hardware dongle,<br>optional: SpaceNavigator™ (3D Connexion®)  |

## System requirements and recommendations CADMOULD® or VARIMOS® S/C Server

Servers are used purely to run / solve simulations in your network. Pre- and postprocessing is done on client computers on the network, and they send off their computation jobs to the server.

### Software:

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Operating System: 64 Bit-System: Windows® 11 + 10  
**We recommend: Windows® 10 64 Bit**

### Hardware

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CPU: Runs on all current Windows® - compatible 64-bit x86 architecture processors (Intel or AMD)  
**We recommend: fast 64-Bit multicore CPU with at least 4 cores, e.g. current-generation Intel Core i5 / i7/ i9 / Xeon, or AMD Epyc / Ryzen 5xxx / Ryzen Threadripper**

Memory: Required: 16 GB RAM  
**We recommend: 64 GB or more**

Hard drive:  $\geq$  500 GB  
**We recommend:  $\geq$ 1 TB SSD**

Other: USB port for hardware dongle

# System requirements and recommendations

## CADMOULD® or VARIMOS® S/C Client

Clients are computers in your network, which are used purely for pre- and postprocessing, i.e. for setting up simulations and for looking at the results. They send off their computation jobs to a server, who computes the simulations remotely, and sends back the results for viewing on the client.

### Software:

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|                   |   |
|-------------------|---|
| Operating System: | 64 Bit-System: Windows® 11 + 10<br>We recommend: Windows® 10 64 Bit   |
| Other:            | Browser (e.g. Microsoft Edge, Chrome, Firefox)<br>to create automatic reports<br><br>Microsoft Office (COM-enabled) to create reports in<br>Powerpoint or Word format |

### Hardware

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|                |  |
|----------------|--|
| CPU:           | Runs on all current Windows® - compatible 64-bit x86<br>architecture processors (Intel or AMD) |
| Memory:        | Required: 4 GB RAM<br><b>We recommend: 4 GB</b>  |
| Graphics card: | ≥ 1 GB MEMORY, must support OpenGL   |
| Hard drive:    | ≥ 500 GB<br><b>We recommend: 1 TB</b>  |
| Other:         | USB port for dongle,<br>optional: SpaceNavigator™ (3D Connexion®)                              |

### Disclaimer

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