

System requirements for CAD/CAM software

When choosing a PC configuration for CAD/CAM mind the following factors, which influence the productivity and stable performance:

1. Realistic lifespan of a modern PC with normal (satisfactory) productivity is 1-2 years.
2. Investments for improving performance of an existing (1-2 years old) PC are not expedient due to minimal productivity gain, thus are not advisable.
3. When buying a new PC it is not recommended to save at the expense of the following components:

- processor frequency, MHz
- RAM not less than 8 GB
- RAM frequency
- professional video card for CAD/CAM/CAE
- high speed drive

Option for economy: less processor frequency - more RAM.

Optimum configuration:

Components	Parameters	Comments
CPU	INTEL I7 or better	-
Mainboard	RAM bus speed: the more - the better	INTEL или ASUS
RAM	16 GB with fastest speed possible	Increase for complex tasks and big projects
Video	NVIDIA Quadro, minimum 1 GB VRAM, with an option to plug-in two monitors	This is the most popular professional video card, which will probably work consistently. Contact us for an additional consultation if considering a less expensive option. We strongly recommend to perform a real testint of a PC with CAD/CAM software installed prior to purchasing. ATI of general purpose are not recommended.

HDD	500 Gb, 7200 rpm SATA	We advise to install an operating system and a CAD/CAM software on SSD. Projects-in-use should also be stored on SSD. HDD should be used for long-term storage of archives of projects. This is especially useful for projects consisting of large number of files, complex 3D models and files of big volume.
CD/DVD-ROM или USB 3.0	RW	preferable - for operational archiving
PC Case	Low noise level	Influences the focusing abilities and fatigue
	USB socket on the front panel	-
Monitor	Preferably large size, vertical definition not less than 1024 dpi, response time not less than 5 ms	Some tasks require 2 monitors for comfortable work. In this case a video card with minimum 2 GB VRAM and the 2nd socket is needed.
Operating system	Windows 10 64-bit or newer	Windows 10 Pro 64-bit recommended
3DCONNEXION		recommended

Contact us to get a consultation about the suitability of a PC you plan to buy for a particular set of CAD/CAM tasks.