System Requirements Metrosoft QUARTIS® R12

For the operation of Metrosoft QUARTIS R12 the following computer hardware is required:

- **Recommended:**   for optimized operation and for new computers
- **Minimal:**   only for existing computer hardware

	Minimal: → only for existing computer hardware	Recommended → for optimized operation and new PCs
Operating system	Microsoft Windows 7	Microsoft Windows 7 (x64) Professional
Processor	Intel processor Core 2 Duo	Intel processor Core i7 or Core i5
Main memory	4 GB RAM (x86) / 8 GB RAM (x64)	16 GB RAM (x64)
Graphics card	Recommended: NVIDIA GeForce Series Memory: >= 256 MB	Recommended: NVIDIA Quadro Series Memory: >= 1 GB
Screen	>= 17" wide screen (16:9) Resolution: >= 1280 x 768 (WXGA)	>= 22" wide screen (16:9) Resolution: 1920 x 1080 (Full HD)
Hard disks	>= 120 GB	>= 500 GB (HDD or SSD)
Pointing device	Wheel-Mouse	Wheel-Mouse and 3D-Mouse from 3Dconnexion
CD/DVD drive	DVD drive	
Interfaces	>= 1 USB Port 1 – 2 LAN network adapter (WPC2040 controller requires 1 LAN)	
Serial multiple interface card	Recommended: MOXA 4-port RS-232 PCIe card This card is available from WENZEL Metromec with drivers for all operating systems. A serial multiple interface card (RS-232) is possibly required for the communication with the machine (CNC controller, PH10, stylus changing system and so forth). Therefore a slot on the motherboard has to be free.	
Data backup	We recommend for the data backup an external device (hard disk) or a network-attached storage (NAS).	

*) Notebook PC with NVIDIA Optimus Technology: "High-performance NVIDIA processer" has to be selected for Metrosoft QUARTIS and the latest NVIDIA driver has to be installed.

PC hardware containing components of a lower specification than these requirements, or deviating in any other way should only be used after consultation with WENZEL Metromec.

Supported Microsoft Windows operating systems

	XP	Vista	Win 7	Win 8 / 8.1	Win 10
Metrosoft QUARTIS R12	✖	(✔)	✔	(✖)	(✖)

- ✔   fully supported
- (✔)   partially supported as not actively tested
- (✖)   not supported, can be operated with visual restrictions
- ✖   not supported and not operational

Notes and detail information

Windows Updates
Microsoft operating systems have to be up to date before installing Metrosoft QUARTIS R12. The current service pack and all available updates have to be installed.

32-bit and 64-bit versions of the Microsoft operating systems
Metrosoft QUARTIS R12 supports 32-bit (x86) as well as 64-bit (x64) versions of Microsoft operating systems. However, it is recommended to use a 64-bit operating system in order to be able to use the available memory (RAM) optimally.

Windows XP (SP3): ✖ not supported and not operational
From Metrosoft QUARTIS R8 on, Windows XP will not be supported anymore. An installation under Windows XP is no longer possible from Metrosoft QUARTIS R9 on. The Windows XP 64 bit version has never been supported.

Windows Vista (SP2): (✔) partially supported as not actively tested
To ensure that the 3D graphics in Metrosoft QUARTIS R12 works properly, the desktop customization has to be disabled in the compatibility settings. Further the graphics card driver has to be optimized for Windows Vista and OpenGL. The "Windows - classic" theme cannot be used.

Windows 7 (SP1): ✔ fully supported
In order to operate Metrosoft QUARTIS R12 one of the following editions is required:

- Windows 7 Enterprise
- Windows 7 Professional
- Windows 7 Ultimate
- Windows 7 Home Premium

To ensure that the 3D graphics in Metrosoft QUARTIS R12 works properly, the desktop customization has to be disabled in the compatibility settings. Further the graphics card driver has to be optimized for Windows 7 and OpenGL. The "Windows – classic" theme cannot be used.

Windows 8 / 8.1 and Windows 10: (✖) not supported, can be operated with visual restrictions
Metrosoft QUARTIS R12 can be installed with no problems on Windows 8 / 8.1 and Windows 10. There are visual restrictions (display problems) in the 3D graphics. Certain graphical elements such as the grid, info labels, coordinate cross, and so on, are not displayed properly.