HiCAD

UNLIMITED CAD PERFORMANCE **DEVELOPED BY ISD**

CAD with HiCAD

Version 2021

System and Hardware Requirements

Date of issue: 20/10/2021

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THE WORLD OF CAD AND PDM SOLUTIONS

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Compatibility Matrix for Interfaces Applications (HiCAD)

Listed below you find an overview of the interfaces that are available for HiCAD:

	HiCAD 2021	HiCAD 2020	HiCAD 2019
Operating system			
Windows 10, 64 Bit	✔	✔	✔
Windows 8.1, 64 Bit	✘	✔	✔
Windows 8, 64 Bit	✘	✔	✔
Windows 7, 64 Bit	✘	✔	✔
PDM system			
HELiOS 2021	✔	✔	✔
HELiOS 2020	✘	✔	✔
HELiOS 2019	✘	✘	✔
HELiOS 2018 or older	✘	✘	✘
Interfaces			
LogiKal 11	✔	✔	✔
LogiKal 10	✔	✔	✔
LogiKal 9	✘	✘	✘
PartSolutions 8 to 11	✔	✔	✔
KISSoft 03/2017 up to 03/2019	✔	✔	✔
CADClick 3.0	✔	✔	✔
Microsoft Office * * If communication between Microsoft Office and HiCAD takes place via the COM interface, then both must have the same Bit version (32/32 or 64/64 Bit). Otherwise problems may occur in connection with VBA, e.g. when creating/editing Excel BOMs.			
Office 2019	✔	✔	✔
Office 2016	✔	✔	✔
Office 2013	✔	✔	✔
Office 2010	✔	✔	✔
Browsers			
Internet Explorer 9 - 11	✔	✔	✔
Edge	✔	✔	✔

	HiCAD 2021	HiCAD 2020	HiCAD 2019
Mozilla Firefox	✔	✔	✔
Google Chrome	✔	✔	✔

System Requirements for HiCAD

It is possible to obtain our software with workstations and monitors as end-to-end solution. Thus, it is ensured that with the right configuration you get the most out of our software. As a matter of course, we undertake site installation of the software and customize these in accordance with heterogeneous system environments of common products. No matter how you decide: It is up to you which hardware components are to be used.

Minimum hardware requirements *	
Computer	Generally, all hardware can be used enacting current drivers of applicable OS.
	Please note that for instance the graphic-card drivers support OpenGL command sequence.
	Internet connection and adrive for the installation medium.
Processor (CPU)	Intel or AMD processor with AVX2 and FMA support. This is the case for all processor generations from Intel Haswell (2013) or AMD Excavator (2015).
Main memory	4 GB RAM
Hard disk	approx. 10 GB free disk space
Graphics card	A fully OpenGL 4.3 capable graphics card with at least 128 MB memory should be used.
	You can use the OpenGLCapabilityTester to check whether the OpenGL capabilities of your computer are sufficient for HiCAD.
	To avoid possible problems with onboard graphics cards, we recommend using a stand-alone graphics card.
Screen resolution	1920 x 1080
Operating system:	Microsoft Windows 10 or Microsoft Windows Server 2016 or higher
Other	For the output of reports, e.g. Sheet Metal cost calculations, you require Microsoft Office Version 2010 or higher

There are no further requirements for the installation of the **HiCAD Version with License Management**; the legal licensing check is performed during runtime.

Examples of suitable hardware components for HiCAD *	
Computer:	FUJITSU Workstation CELSIUS W5010
Processor (CPU):	Intel® Core™ i7-10700K Processor (8 cores / 16 threads, 3.80 GHz bis 5.1 GHz)
	SingleCore Benchmarks that can be found on various websites may help you with the choice of the processor. Example:
	https://www.cpubenchmark.net/singleThread.html
Main memory:	4 x 8 GB, DDR4, 2.933 MHz
	If you work with very large CAD drawings you should use computers with more RAM. For optimal performance with large drawings, the system should have significantly more main memory than is apparently necessary for HiCAD.
Hard disk:	1 x 512 GB, SSD M.2, 2,5 inches

Examples of suitable hardware components for HiCAD *	
Graphics card:	NVIDIA Quadro P1000 (4 GB) oder AMD WX3100 (4 GB) or higher.
	If you work with very large drawing files, a graphics card with a larger memory is recommended.
Screen resolution:	Working with a high screen resolution is only possible to a limited extent. Resizing of text ("Enlarge text") is not recommended.
Operating system:	Microsoft Windows 10 (Version 20H2 or newer) or Microsoft Windows Server 2016 or higher
Other:	For the output of reports, e.g. Sheet Metal cost calculations, you require Microsoft Office Version 2010 or higher.

* When using the HiCAD Point Cloud module, you will need a significantly higher hardware configuration. This also depends on the size of the project.

Please note:

- For the connection to Sentinel License Server, the Firewall of the UDP Port 5093 License Server must be released for in- and outcoming connections; for the Windows Firewall, the port release is executed automatically by activating the respective option in the installation program of the License Server.

- If you use network licenses, use the operating systems indicated in the System Requirements for the License Server.

- Internet access is necessary for the computer/server via which the licenses are managed!

- In addition, you need one of the database systems listed under Hardware Requirements for the HELiOS Database Server when using HELiOS.

System Requirements for Point Clouds

The hardware requirements depend on the project size. For a project with 26 scan positions, the hardware equipment well suited for HiCAD works adequately. Since point clouds must be processed in addition to the usual data, the following applies:

Suitable hardware equipment when using the HiCAD Point Cloud module	
Processor (CPU):	Intel® Core™ i7-10700K Processor (8 cores / 16 threads, 3.80 GHz)
Main memory:	64 GB RAM
Hard disk:	1 TB Solid State Drive + regular HDD
Graphics card:	Dedicated, i.e. separately integrated, graphics card, OpenGL 4.3 or higher, at least 16 GB RAM
Operating system:	Microsoft Windows 10 or Microsoft Windows Server 2016 or higher

> **Please note:**
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> Please note that the import of point clouds requires more RAM than using the point cloud in HiCAD.

HiCAD

UNLIMITED CAD PERFORMANCE **DEVELOPED BY ISD**

ISD Software und Systeme GmbH
Hauert 4
44227 Dortmund
Germany
Tel. +49 (0)231 9793-0
info@isdgroup.de

ISD Berlin
Paradiesstraße 208a
12526 Berlin
Germany
Tel. +49 (0)30 634178-0
berlin@isdgroup.de

ISD Hamburg
Strawinskystraße 2
25337 Elmshorn
Germany
Tel. +49 (0)4121 740980
hamburg@isdgroup.de

ISD Hannover
Hamburger Allee 24
30161 Hanover
Germany
Tel. +49 (0)511 616803-40
hannover@isdgroup.de

ISD Nürnberg
Nordostpark 7
90411 Nuremberg
Germany
Tel. +49 (0)911 95173-0
nuernberg@isdgroup.de

ISD Ulm
Wilhelmstraße 25
89073 Ulm
Germany
Tel. +49 (0)731 96855-0
ulm@isdgroup.de

ISD Austria GmbH
Hafenstraße 47-51
4020 Linz
Austria
Tel. +43 (0)732 21 04 22-0
info@isdgroup.at

ISD Benelux b.v.
Het Zuiderkruis 33
5215 MV 's-Hertogenbosch
The Netherlands
Tel. +31 (0)73 6153-888
info@isdgroup.nl

ISD Benelux b.v.
Grote Voort 293A
8041 BL Zwolle
The Netherlands
Tel. +31 (0)73 6153-888
info@isdgroup.nl

ISD Schweiz AG
Rosenweg 2
4500 Solothurn
Switzerland
Tel. +41 (0)32 624 13-40
info@isdgroup.ch

ISD Group France SAS
10 -12 Boulevard Vivier Merle
69393 Lyon cedex 03
France
lyon@isdgroup.fr

ISD Group USA Inc.
721 Jetton Street Two Harbour Place
NC 28036 Davidson
USA
Tel. +1 (0)770 349 6321
usa@isdgroup.com

ISD Group USA Inc.
5126 South Royal Atlanta Drive
GA 30084 Tucker
USA
Tel. +1 (0)770 349 6321
usa@isdgroup.com

www.isdgroup.com