Autodesk® AutoCAD® 2022 - including specialized toolsets

System requirements

Supported operating systems

64-bit Microsoft Windows 10. See Autodesk's [Product Support Lifecycle](#) for support information.

Processor

Single- or Multi-Core Intel®, Xeon®, or i-Series 64-bit processor or AMD® equivalent with SSE2 technology. Highest affordable CPU speed rating recommended.

AutoCAD® software based products use multiple cores for many tasks.

Basic
• 2.5-2.9 GHz processor
Recommended
• 3+ GHz processor

Network

Deployment via Deployment Wizard.

The license server and all workstations that will run applications dependent on network licensing must run TCP/IP protocol.

In addition to operating systems supported for the application, the license server will run on the Windows Server® 2016, Windows Server 2012 R2, and Windows Server 2019.

Hardware

Memory

Basic
• 8 GB
Recommended
• 16 GB

Display resolution
Conventional Displays:
1920x1080 with True Color

High Resolution & 4K Displays:
Resolutions up to 3840x2160 supported on Windows 10, (with capable display card)

Hardware (continued)

Disk space
10.0 GB

*Electrical: 20.0 GB
*Architecture: 16.0 GB
*MEP: 21.0 GB
*Mechanical: 12.0 GB
*Map 3D: 20.0 GB
*Plant 3D: 12.0 GB

Pointing device
MS-Mouse compliant

Multiple processors
Supported by the application (in areas like hatch, publish, and 3D navigation).

Display card

Basic
• 1 GB GPU with 29 GB/s Bandwidth and DirectX11 compliant

Recommended
• 4 GB GPU with 106 GB/s Bandwidth and DirectX12 compliant

Plotter/Printer
Continued system printer and HDI support

Compiler
Visual Studio 2019 Pro 16.0

Installer
MSI 5.0

Locking/License management
FLEXnet & Autodesk Licensing Service will be used for both the stand-alone and networked versions

Side-by-side install
Supported

Additional requirements for large datasets, point clouds, and 3D modeling
• 16 GB RAM or more
• 6 GB free hard disk available not including installation requirements
• 3840x2160 (4K) or greater True color video display adapter; 4 GB VRAM or greater, Pixel Shader 3.0 or greater, Direct3D® capable workstation class graphics card.

Software

Languages
English, French, Italian, German, Spanish, Portuguese, Japanese, Korean, Traditional Chinese, Simplified Chinese, Czech, Polish, Hungarian, Russian
*AutoCAD specialized toolsets may not support all above languages

File format changes
No

Save as support
AutoCAD R14, AutoCAD 2000, AutoCAD 2004, AutoCAD 2007, AutoCAD 2010, AutoCAD 2013, AutoCAD 2018.
EMR has the same formats as Commercial AutoCAD, with the exception of AutoCAD 2000/LT2000 Drawing
*AutoCAD Architecture and AutoCAD MEP do not support Save As

*AutoCAD Mechanical: AutoCAD Mechanical 6, AutoCAD Mechanical 2004, AutoCAD Mechanical 2004DX, AutoCAD Mechanical 2005, AutoCAD Mechanical 2006, AutoCAD Mechanical 2007, AutoCAD Mechanical 2008, AutoCAD Mechanical 2009, AutoCAD Mechanical 2010, AutoCAD Mechanical 2011, AutoCAD Mechanical 2012, AutoCAD Mechanical 2013, AutoCAD Mechanical 2014, AutoCAD Mechanical 2015, AutoCAD Mechanical 2016, AutoCAD Mechanical 2018, AutoCAD Mechanical 2021, AutoCAD Mechanical 2022

DXF support
AutoCAD R12, AutoCAD 2000, AutoCAD 2004, AutoCAD 2007, AutoCAD 2010, AutoCAD 2013, AutoCAD 2018

API compatibility
ARX: Yes
LISP: Yes
.NET: Yes
Javascript: Yes

Script compatibility
Yes

Security (DWG)
Supports digital signatures.

Drawing size support
Full DWG compression

Object interoperability (non-AutoCAD object model)
New objects may require new enablers.

.NET Framework
.NET Framework Version 4.8 or later

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Specialized Toolsets

Toolset	Product Specific Requirements
Map 3D	• Disk Space: 20GB • Memory: 16GB • Database & FDO Requirements (see below)
Electrical	• Disk Space: 20GB • Microsoft Access Database Engine 2016 Redistributable (x64)(16.0.5044.1000) or later
Plant 3D	Disk Space: 12GB
Architecture	Disk Space: 16GB
Mechanical	Disk Space: 12GB
MEP	Disk Space: 21GB Memory: 16GB

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Map 3D Additional Requirements

FDO Provider Requirements		
FDO Provider	**Certified With**	**Notes**
Microsoft SQL Server	Microsoft SQL Server 2016 Standard and Enterprise Editions Microsoft SQL Server 2017 Standard and Enterprise Editions Microsoft SQL Server 2019 Standard and Enterprise Editions	Industry Models also support the versions of Microsoft SQL Server listed on the left.
Oracle 12c Release 2	Oracle 12.2.0.1.0 Standard Edition and Enterprise Edition	Industry Models support the same Oracle versions as listed on the left.
Oracle 18c	Oracle 18.3 Enterprise Edition and Standard Edition 2	Industry Models support the same Oracle versions as listed on the left.
Oracle 19c	Oracle 19.3 Enterprise Edition and Standard Edition 2	Industry Models support the same Oracle versions as listed on the left.
Raster	DEM, JPG2K, DTED, MrSID®, ECW, PNG, ESRI® Grid, TIFF, JPEG, ESRI® ASCII	
Autodesk SDF	3.0	
ESRI ArcGIS	ArcGIS® 10.8.1 ArcGIS 10.7.1 ArcGIS 10.6.1	This Provider requires ESRI licensed components to be installed on client system.
MySQL	8.0	
ODBC	The FDO ODBC provider has been tested with corresponding versions of ODBC drivers that are shipped with the relevant supported operating systems version.	
OGC WMS	WMS 1.3.0	
OGC WMTS	WMTS 1.0.0	
OGC WFS	WFS 2.0.0	
SQLite	SQLite 3.27.2	
PostgreSQL	PostgreSQL 12.2+ + PostGIS 3.0	

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ODBC Drivers	Tested Versions
Microsoft® Access® Driver (*.mdb, *.accdb)	Microsoft Access database engine 2016(English) 16.00.4999.1000
Microsoft® Excel® Driver (*.xls, *.xlsx, *.xlsm, *.xlsb)	Microsoft Access database engine 2016(English) 16.00. 4999.1000
MySQL® ODBC 8.0 Driver	8.00.22.00
SQL Server	10.00. 18362.01
Oracle® in OraClient19Home1	19.00.00.00

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See Also:

Certified hardware for AutoCAD - Use this tool to find recommended graphics hardware and drivers. Autodesk tests graphics hardware and drivers for a number of Autodesk products. Please note that not all Autodesk products participate in graphic hardware certification. AutoCAD Certified Hardware FAQ

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