

Autodesk® AutoCAD® 2023 - including specialized toolsets

System requirements

Supported operating systems

64-bit Microsoft® Windows® 11 or Windows 10 version 1809 or above. See Autodesk's [Product Support Lifecycle](#) for support information.

Processor

Basic

- 2.5-2.9 GHz processor (base) ARM Processors are not supported.

Recommended

- 3+ GHz processor (base), 4+ GHz (turbo)

Network

See [Autodesk Network License Manager for Windows](#)

Hardware

Memory

Basic

- 8 GB

Recommended

- 16 GB

Display resolution

Conventional Displays:

1920 x 1080 with True Color

High Resolution & 4K Displays:

Resolutions up to 3840 x 2160 (with capable display card)

System requirements

Autodesk AutoCAD 2023

Hardware (continued)

Disk space

10 GB (suggested SSD)

*Electrical: 20 GB

*Architecture: 20 GB

*MEP: 21 GB

*Mechanical: 12 GB

*Map 3D: 20 GB

*Plant 3D: 12 GB

Pointing device

MS-Mouse compliant

Multiple processors

Supported by the application

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

DirectX 12 with Feature Level 12_0 is required for Shaded(Fast) and Shaded with edges(Fast) visual styles

Plotter/Printer

Continued system printer and AutoCAD HDI support

Compiler

Visual Studio 2019 Pro 16.11.5

Locking/License management

FLEXnet & Autodesk Licensing Service will be used for Named User and Flex

Side-by-side install

Supported

Additional requirements for large datasets, point clouds, and 3D modeling

Software

Languages - AutoCAD, AutoCAD Mechanical

English, French, Italian, German, Spanish, Portuguese, Japanese, Korean, Traditional Chinese, Simplified Chinese, Czech, Polish, Hungarian, Russian

Languages - AutoCAD Map 3D

English, French, Italian, German, Spanish, Brazilian Portuguese, Japanese, Korean, Traditional Chinese, Simplified Chinese, Czech, Polish, Hungarian, Russian

Languages - AutoCAD Architecture

English, French; Italian; German; Spanish; Japanese; Korean; Traditional Chinese; Simplified Chinese; Czech; Polish; Russian

Languages - AutoCAD MEP

English, French; Italian; German; Korean; Simplified Chinese; Russian

Languages - AutoCAD Electrical

English, French, Italian, German, Spanish, Japanese, Korean, Traditional Chinese, Simplified Chinese, Russian

Languages - AutoCAD Plant 3D

English; French, German; Japanese; Korean; Simplified Chinese; Russian

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, AutoCAD Mechanical 2023

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

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: 20GB Memory: 16GB
Mechanical	Disk Space: 12GB
MEP	Disk Space: 21GB Memory: 16GB

Map 3D Additional Requirements

FDO Provider Requirements		
FDO Provider	Certified With	Notes
Microsoft SQL Server	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.
Oracle 21c	Oracle 21.3 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 (ArcGIS Engine/ArcGIS Desktop) to be installed on Map 3D installed 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 13.5 + PostGIS 3.0	

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	8.00.27.00
SQL Server	10.00.19041.01
Oracle® in OraClient21Home1	21.00.00.00

System requirements for AutoCAD 2023 for Mac

Operating System	Apple® macOS® Monterey v12 Apple macOS Big Sur v11 Apple macOS Catalina v10.15
Model	Basic: Apple Mac Pro® 4.1, MacBook Pro 5.1, iMac® 8.1, Mac mini® 3.1, MacBook Air®, MacBook® 5.1 Recommended: Apple Mac® models supporting Metal Graphics Engine Apple Mac models with M series chip are supported under Rosetta 2 mode.
CPU Type	64-bit Intel CPU Apple M series CPU
Memory	Basic: 4GB Recommended: 8GB or higher
Display Resolution	Basic: 1280 x 800 display High Resolution: 2880 x 1800 with Retina Display
Disk Space	5 GB free disk space for download and installation
Pointing Device	Apple-compliant Mouse, Apple-compliant Trackpad, Microsoft-compliant mouse
Display Card	Recommended: Mac native installed graphics cards
Disk Format	APFS, APFS (Encrypted), Mac OS Extended (Journaled), Mac OS Extended (Reformatted Encrypted)

Autodesk product offerings on Mac OS Extended (Journaled), Mac OS Extended (Reformatted Encrypted) and conditions governing your access to and use of that offering expressly permit virtualization. Where virtualization is authorized, all conditions and limitations specified in the applicable terms and conditions apply. Autodesk may make available information regarding use of products in virtualized environments. Such information is offered solely for your convenience, on an “as is” basis, and may contain errors, inaccuracies, or may be incomplete. Autodesk makes no representations, warranties or other promises related to use of any product in any virtualization environment or with any virtualization technology. If you are authorized to virtualize and elect to do so, you assume all risks associated with such use, including, but not limited to incompatibility between the product and third-party virtualization technology and/or your virtualization environment. Read our Terms of Use for more information.

See Also:

Certified hardware for AutoCAD - Use this tool to find recommended graphics hardware and drivers. Autodesk tests graphics hardware

