## System requirements for AutoCAD 2022 including Specialized Toolsets (Windows)

| | |
|---|---|
| **Operating System** | 64-bit Microsoft® Windows® 11 and Windows 10. |
| **Processor** | **Basic**: 2.5–2.9 GHz processor<br>**Recommended**: 3+ GHz processor |
| **Memory** | **Basic**: 8 GB<br>**Recommended**: 16 GB |
| **Display Resolution** | **Conventional Displays:**<br>1920 x 1080 with True Color<br><br>**High Resolution & 4K Displays:**<br>Resolutions up to 3840 x 2160 supported on Windows 10 (with capable display card) |
| **Display Card** | **Basic**: 1 GB GPU with 29 GB/s Bandwidth and DirectX 11 compliant<br>**Recommended**: 4 GB GPU with 106 GB/s Bandwidth and DirectX 12 compliant |
| **Disk Space** | 10.0 GB |
| **Network** | See Autodesk Network License Manager for Windows |
| **Pointing Device** | MS-Mouse compliant |
| **.NET Framework** | .NET Framework version 4.8 or later |

## System requirements for AutoCAD 2022 for Mac

| | |
|---|---|
| **Operating System** | Apple® macOS® Big Sur v11<br>Apple macOS Catalina v10.15<br>Apple macOS Mojave v10.14 |
| **Model** | **Basic**: Apple Mac Pro® 4.1, MacBook Pro 5.1, iMac® 8.1, Mac mini® 3.1, MacBook Air®, MacBook® 5.1<br><br>**Recommended**: Apple Mac® models supporting Metal Graphics Engine<br>Apple Mac models with M series chip are supported under Rosetta 2 mode. |
| **CPU Type** | 64-bit Intel CPU<br>**Recommended**: Intel Core i7 or higher |
| **Memory** | **Basic**: 4GB<br>**Recommended**: 8GB or higher |
| **Display Resolution** | **Basic**: 1280 x 800 display<br>**High Resolution**: 2880 x 1800 with Retina Display |
| **Disk Space** | 4 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 (Journaled, Encrypted) |

## Additional Requirements for large datasets, point clouds, and 3D modeling

| | |
|---|---|
| **Memory** | 8 GB RAM or more |
| **Disk Space** | 6 GB free hard disk available, not including installation requirements |

| Additional Requirements for large datasets, point clouds, and 3D modeling | |
|---|---|
| **Display Card** | 3840 x 2160 (4K) or greater True Color video display adapter; 4G VRAM or greater; Pixel Shader 3.0 or greater; DirectX-capable workstation class graphics card. |

Specialized Toolsets (Windows Only)

| Toolset | Additional Requirements |
|---|---|
| **AutoCAD Map 3D** | Disk Space: 20GB<br>Memory: 16GB<br>Database & FDO Requirements (see below) |
| **AutoCAD Electrical** | Disk Space: 20GB<br>Microsoft Access Database Engine 2016 Redistributable (x64) (16.0.5044.1000) or later |
| **AutoCAD Architecture** | Disk Space: 20GB<br>Memory: 16GB |
| **AutoCAD MEP** | Disk Space: 21GB<br>Memory: 16GB |
| **AutoCAD Plant 3D** | Disk Space: 12GB |
| **AutoCAD Mechanical** | Disk Space: 12GB |
| **AutoCAD Raster Design** | Disk Space: 1GB |

AutoCAD Map 3D Additional Requirements (Windows Only)

| FDO Provider Requirements | | |
|---|---|---|
| **FDO Provider** | **Certified With** | **Notes** |
| **Microsoft SQL Server** | Microsoft SQL Server 2016 Standard and Enterprise Editions<br>Microsoft SQL Server 2017 Standard and Enterprise Editions<br>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<br>Standard Edition and Enterprise Edition | Industry Models support the same Oracle versions as listed on the left. |
| **Oracle 18c** | Oracle 18.3<br>Enterprise Edition and Standard Edition 2 | Industry Models support the same Oracle versions as listed on the left. |
| **Oracle 19c** | Oracle 19.3<br>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 | |

| FDO Provider Requirements | | |
|---|---|---|
| **FDO Provider** | **Certified With** | **Notes** |
| **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** | WMS 1.0.0 | |
| **OGC WFS** | WFS 2.0.0 | |
| **SQLite** | SQLite 3.27.2 | |
| **PostgresSQL** | PostgreSQL 12.2 + 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 | 8.00.22.00 |
| SQL Server® | 10.00.18362.01 |
| Oracle® in OraClient19Home1 | 19.00.00.00 |