



GstarCAD 2026 vs ZWCAD2026

GstarCAD 2026

Distribution Partner
<https://gstarcadaustralia.com/>



GstarCAD

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GstarCAD 2026 VS ZWCAD 2026

GstarCAD 2026 introduces a completely reconstructed interface, offering a sleek, modern look that enhances the user experience. Performance improvements boost efficiency across various tasks. Exciting new features include **Dimensional Constraints**, **Parameters Manager**, **DWG Compare** and more, unlocking powerful design capabilities. Innovative feature like **Drawing Merge** streamlines workflows, and **Engineering Projection** delivers precise bottom-view accuracy. Additionally, updates to **DIMCORD**, **Batch Plot**, **Batch Purge**, **PDF Import** and **Data Extraction** further enhance usability. Let's take a closer look at these exciting updates!

1. Comprehensive Evaluation

- **Rich Innovative Features:**

In terms of 2D drawing, GstarCAD 2026 is smooth and stable, fully compatible with various file formats including DWG, DXF, PDF, DGN, and DWF/DWFX. It offers a comprehensive set of features for layers, text, annotations, blocks, and printing. Additionally, it supports features like Drawing Lock, DWG Convert, Auto Merge, Batch Purge, Layout Merge, Layout by path, Pline Boolean, Quick Measure, Super Axonometric, Cross to break, Draw tables, and AutoXlstable, making it more aligned with users' actual usage scenarios and enhancing design efficiency. These features are not currently supported by ZWCAD 2026.

- **Powerful Solid Editing Features:**

GstarCAD 2026 provides plenty of 3D modeling and solid editing features, compatible with various 3D drawings such as 3DS, IFC, STP, IGS, and RVT. It also includes built-in architectural and BIM modules to fully meet users' design needs. ZWCAD 2026 does not support Polysolid, Section Plane, Convert to NURBS, Extract Edges, and other 3D functions, nor does it support opening IGS and RVT 3D drawings. Its BIM capabilities are also less comprehensive than those of GstarCAD 2026.

- **Leading Performance in Routine Operations:**

The performance of open, save, move, undo, and drawing recover in GstarCAD 2026 are basically the same level to ZWCAD 2026. Operations like regeneration, mirror, copy, and past have surpassed ZWCAD 2026, achieving international leading level, significantly improving design efficiency.

- **Complete Secondary Development Interfaces:**

GstarCAD 2026 supports multiple secondary development interfaces including GRX, .NET, LISP, and Python, ensuring the reliability and correctness of these interfaces, making secondary development and migration more efficient and cost-effective. ZWCAD 2026 does not currently support the Python interface.

● **Cross-Platform Usage:**

GstarCAD supports cross-platform compatibility, working on Windows, Linux, HarmonyOS (Chinese version), and MacOS. It maintains consistent operating habits and interaction design across different system versions, allowing users to switch devices seamlessly. In contrast, ZWCAD Professional version currently only supports Windows, and supports Linux for Chinese version, with no support for MacOS. Its HarmonyOS version is limited to the personal version, which does not support commercial use.

● **Efficient Cloud Collaboration:**

GstarCAD supports cloud collaboration, providing a new collaborative design model that transfers from traditional CAD to cloud-based CAD. Users can access drawings or design on PC, tablet, mobile, or web, enabling project collaboration anytime and anywhere, with real-time communication, collaboration, and sharing based on drawings, thus enhancing work efficiency a lot. ZWCAD 2026 does not have built-in collaboration features and it only supports uploading documents to the cloud. The collaborative functions of GstarCAD 2026 are more complete and convenient.

2. Performance Comparison

The performance of common-use operations like Open, Save, Regen , Select All, Move, Undo, Redo, and Mirror ,etc. are much faster than ZWCAD 2026.

The chart below provides an overview of the the performance. We build an operation speed comparison of the basic features between GstarCAD and ZWCAD.

Operation Time Comparison between GstarCAD 2026 and ZWCAD 2026

Testing environment:

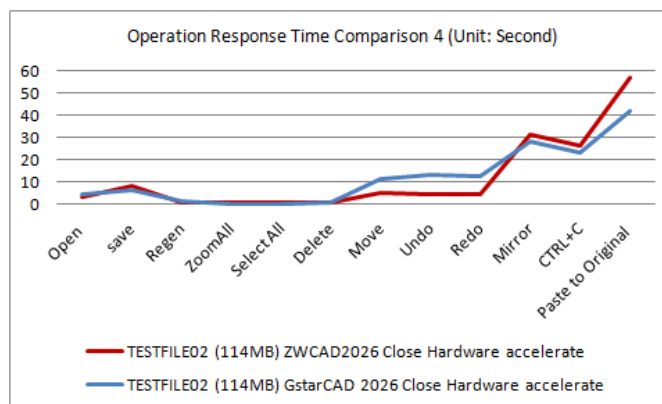
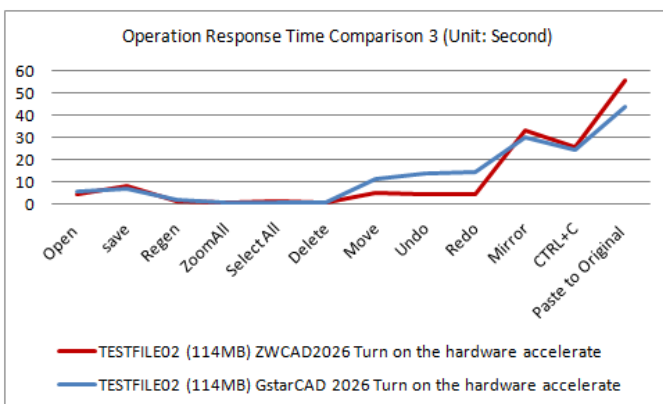
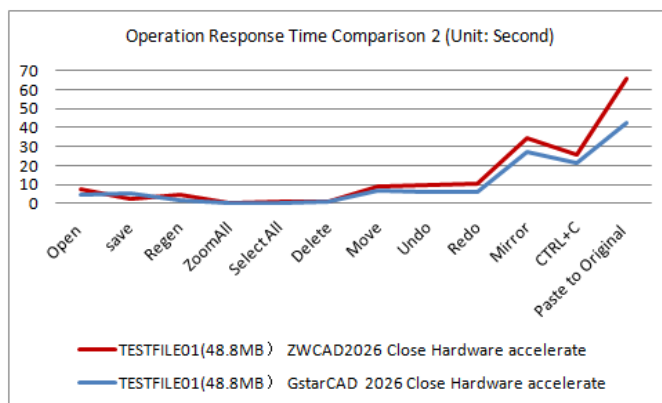
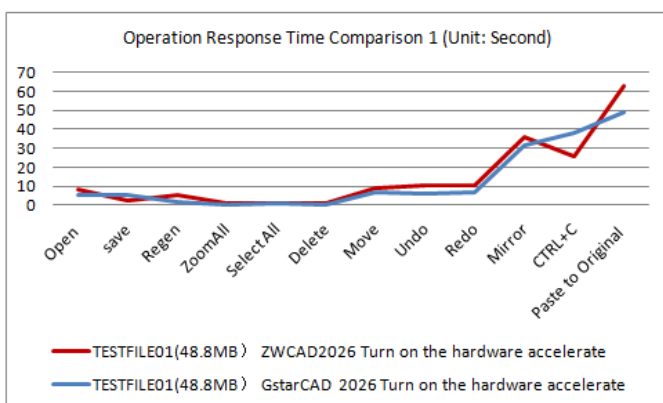
Computer Model	ASUS Desktop
Operating System	Windows 10 Professional 64-bit
Processor	Intel Core i5-10400@ 2.90GHz Hexa-core (14 nm)
Memory	16 GB (Kingston DDR4 3200MHz 16GB)
Graphic Card	Intel UHD Graphics 630 (128MB/ASUS)

The detailed test data is shown in the following table:

Test items	Test description (time unit: s)	TESTFILE01(48.8MB)				TESTFILE02 (114MB)			
		ZWCAD	GstarCAD	ZWCAD	GstarCAD	ZWCAD	GstarCAD	ZWCAD	GstarCAD

		Turn on the hardware accelerate	Turn on the hardware accelerate	Close Hardware accelerate	Close Hardware accelerate	Turn on the hardware accelerate	Turn on the hardware accelerate	Close Hardware accelerate	Close Hardware accelerate
Open	Click the Open button to execute the OPEN command. After selecting the drawing, click the Open button to count down the time until the drawing is fully opened.	8.17	4.99	7.35	4.65	4.33	5.79	3.32	4.44
save	Execute SAVEAS to modify the drawing file name. The time starts from clicking the Save button to the time required for the complete saving.	2.24	5.24	2.28	5.20	8.27	7.05	8.10	6.42
Regen	Enter RE, press Enter to start the timer, and the timer will end when the command line returns to normal.	5.10	1.77	4.87	1.98	1.15	1.90	0.70	1.34
Zoom All	After the objects are reduced, it will prompt to regenerate and then stop. Enter Z, press Enter, enter A, and press Enter to count down until the objects are fully displayed.	0.62	0.45	0.55	0.55	0.61	0.66	0.54	0.34
Select All	the time required for all objects to be highlighted and the cursor to return to normal	0.75	0.60	0.61	0.43	1.41	0.81	0.66	0.40
Delete	After selecting all the objects, enter E and press Enter to start the timer until all the objects disappear and the cursor returns to normal.	0.82	0.38	0.60	0.60	0.66	0.63	0.75	0.69
Move	Restart the software and open the drawing. After selecting all the objects, enter M, press Enter, and specify a base point and target point at will. The timer starts when you click the designated target point and ends when the movement is completed.	9.03	6.51	8.72	6.73	5.15	11.46	4.94	11.18
Undo	After moving the whole drawing, press U and press Enter to cancel.	10.27	6.40	9.91	6.37	4.54	14.22	4.31	13.48
Redo	After undoing the whole drawing move, enter REDO and press Enter to completely restore move operation that was just undone.	10.51	6.48	10.12	6.38	4.59	14.42	4.42	12.64
Mirror	After selecting all drawings, enter MI, press Enter, specify a mirror axis, and when prompted whether to delete the source object, enter Y and press Enter. The time required count until the drawing is completely shown.	35.65	31.42	34.45	27.48	33.22	30.39	31.75	28.24

CTRL +C	Restart the software, open the drawing, select all objects, press CTRL +C to start timing, The time count until the drawing is completely shown.	25.47	37.87	25.40	21.02	26.10	24.32	26.54	23.11
Paste to Original	After copying to the clipboard, open the drawing for the paste test, enter the PASTEORIG (paste to original coordinates) command, and press Enter to start. The time count until complete the paste command.	62.72	48.8	65.60	42.30	55.91	44.02	56.85	42.08



For mid- and low-end graphics cards, there is little difference in the performance of the two softwares in routine operations when hardware acceleration is turned on or off. In terms of opening, saving, moving, undoing and restoring performance, GstarCAD and ZWCAD each have their own advantages and disadvantages, which are greatly related to the drawings.

In terms of regeneration, mirroring, copying, and pasting performance, GstarCAD is better than ZWCAD. Among them, the mirror line specified by ZWCAD is very laggy, which affects the use. In terms of zooming all, selecting all, and deleting performance, GstarCAD and ZWCAD are basically the same.

3. Features Comparison

GstarCAD 2026 offers more practical features according to user needs. With nearly a hundred more functions than ZWCAD 2026, GstarCAD has obvious advantages.

What's more, the interface and functional details of ZWCAD 2026 still have a big gap with GstarCAD 2026.

3.1. File Format Comparison

Compatibility		ZWCAD 2026		GstarCAD 2026	
		Import	Export	Import	Export
Files format	DWG R 14/2000/2004/2007/2010/2013/2018	√	√	√	√
	DXF R 12/2000/2004/2007/2010/2013/2018	√	√	√	√
	DWS	√	√	√	√
	DWT	√	√	√	√
	Sheet Set (*.dst)	√	√	√	√
	PDF	√	√	√	√
	DWF / DWFX	√	√	√	√
	DGN V7 /V8	√	√	√	× (GstarCAD for Linux supports)
	PLT / HPGL (*.plt, *.hpgl)	√	√	√	√
	Raster images (*.bmp, *.jpg, *.png, *.tif)	√	√	√	√
	SVG	×	√	√	√
	WMF (*.wmf, *.emf)	√	√	√	√
	ACIS (*.sat)	√	√	√	√
	3DS (*.3ds)	√	/	√	/
	STL (*.stl)	×	√	√	√
	Package PS (*.eps)	/	×	/	√
	DXX Extraction (*.dxx)	/	×	/	√
	SXF (*.sfc, *.p21) (official Japanese CAD data exchange standard)	√	√	×	×
	JWW (*.jww) (CAD drawing format widely used in Japan)	√	/	×	×
	IFC (*.ifc)	√	×	√	√
	STEP (*.ste, *.stp, *.step)	√	/	√	/
	IGES (*.igs, *.iges)	×	/	√	/

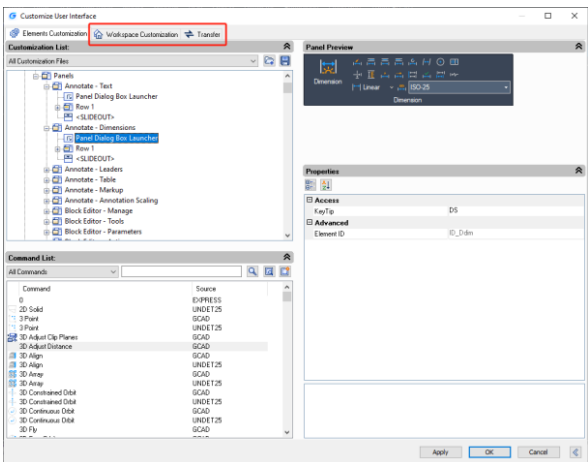
	RVT (* rvt)	×	/	√	/
	dae 、 fbx 、 obj 、 ply	×	/	√	/
Data files	Interface files (* . cui , * . cuix)	√	√	√	√
	Menu file (* .mnu)	√	√	√	√
	Alias files (* .pgp)	√	√	√	√
	Fill file (* .pat)	√	√	√	√
	Font files (* .shx)	√	√	√	√
	Shape file File)	√	√	√	√
	Linetype files (* .lin)	√	√	√	√
	Print style sheet files (* .ctb , * .stb)	√	√	√	√
	Print profiles (pc 5/ pc 3, pmp)	√	√	√	√

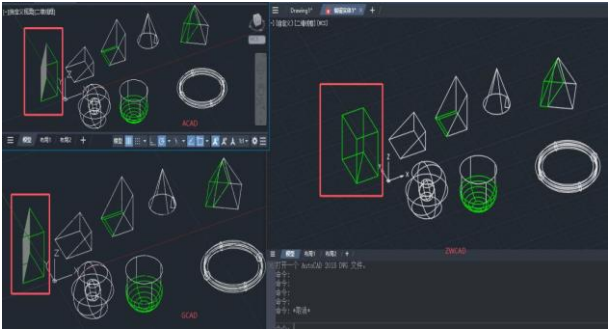
3.2. Secondary Development Interface Comparison

Interface Type		ZWCAD 2026	GstarCAD 2026
Class ARX (C + +)		√	√
Lisp	LISP	√	√
	DCL	√	√
	FAS	√	√
	VX	√	√
VBA		√	√
COM		√	√
.NET		√	√

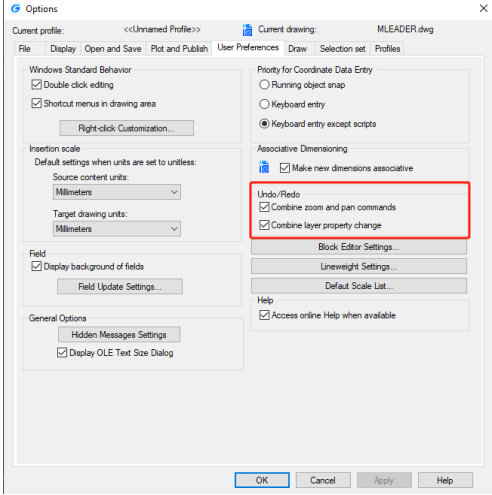
4. Important Features Comparison

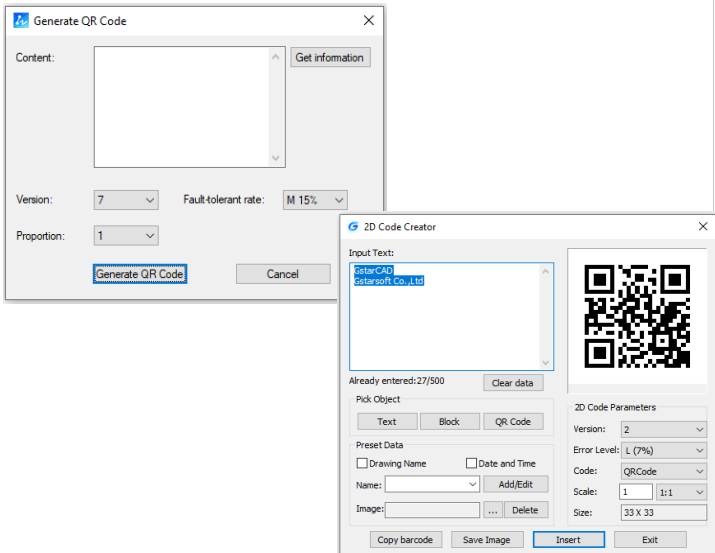
The basic functions of the two CAD software are basically the same. Here we only list some important functions and the special functions for reference. Among them, the advantages of GstarCAD are highlighted in green, and the advantages of ZWCAD are highlighted in yellow.

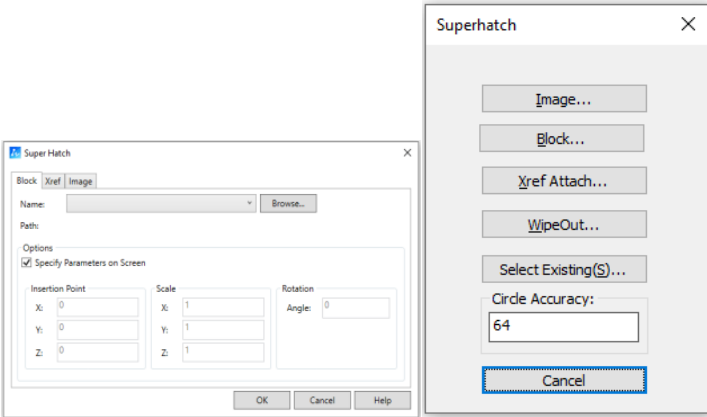
Features	ZWCAD	GstarCAD	Comparison
User Interface			
Workspace (2D Drafting, Classic Interface, 3D modling)	✓	✓	Functionality consistent
File tab bar	✓	✓	<p>The functions are basically the same</p> <ul style="list-style-type: none"> ● ZWCAD supports dragging files into independent windows ● GstarCAD file list menu options are richer, providing new, open, save, etc.
Layout tab bar	✓	✓	<p>The functions are basically the same</p> <ul style="list-style-type: none"> ● The position of GstarCAD layout labels is aligned with the status bar by default, and the drawing area has more space ● GstarCAD layout list menu options are richer, providing new, select, publish, etc.
Viewport scrollbar	✓	✓	/
Custom workspace, menu, Ribbon , Toolbar, shortcut keys	✓	✓	<p>The functions are basically the same</p> <ul style="list-style-type: none"> ● GstarCAD layout is more intuitive and operation is more convenient 
Configuration file migration	✓	✓	Functionality consistent

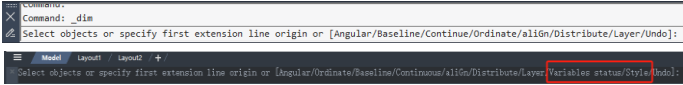
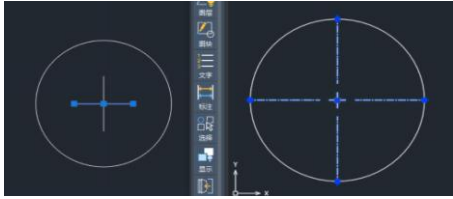
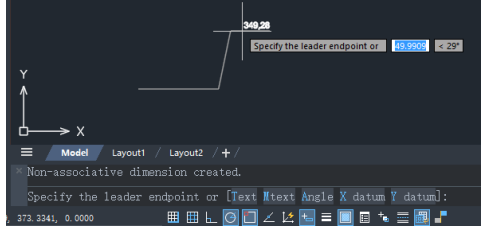
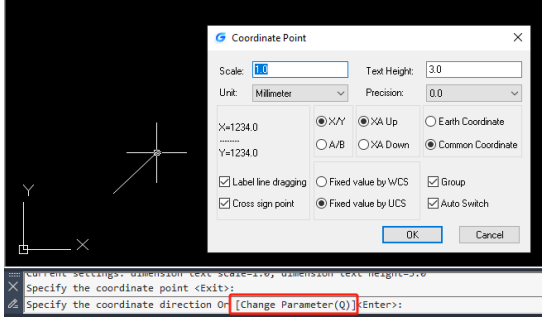
File			
Open (New, Open, Import)	√	√	<ul style="list-style-type: none"> ● ZWCAD 's large memory mode and GstarCAD 's efficient memory management model support the processing of complex drawings ● For some 3D drawings in ZWCAD , the preview effect is inconsistent with the actual opening effect, and it is also different from ACAD , as shown below: 
Save (Save, Save as, Export)	√	√	Please refer to the file format compatibility
Etransmit, Send	√	√	Functionality consistent
Drawing Utilities, Audit, Recover, drawing recovery manager, Update block icons	√	√	Functionality consistent
DWG Compare	√	√	Functionality consistent <ul style="list-style-type: none"> ● The operation options are displayed in the Ribbon in ZWCAD ● The operation options are displayed on the toolbar in GstarCAD
Cloud Storage	√	√	<ul style="list-style-type: none"> ● ZWCAD uses Baidu Cloud and Huawei Cloud ● GstarCAD uses GstarCAD Cloud storage
Drawing lock and unlock	√	√	Functionality consistent
Digital Signature	√	√	Functionality consistent.
Drawing Lock (All options)	×	√	/
DWG Convert (DWGCON VERT)	×	√	/
Drawing Unit (DWGUNIT S)	×	√	/
Drawing Merge	×	√	/
Batch purge	×	√	/

Print			
Print	√	√	<p>The functions are basically the same</p> <ul style="list-style-type: none"> ● GstarCAD supports multiple printing qualities, which is richer than ZWCAD ● GstarCAD supports viewing print and publish details (VIEWPLOTDETAILS), but ZWCAD does not support
Batch print/Smart batch print	√	√	<p>The "Smart Batch Print" function of the old version of ZWCAD is basically the same as the "Batch Print" function of GstarCAD.</p> <ul style="list-style-type: none"> ● The names of some functions in ZWCAD are misleading. For example, "Select Batch Drawings" actually means selecting multiple drawing frames in the current drawing, and "Highlight" means highlighting the drawing print order. Not as intuitive as GstarCAD . ● ZWCAD supports multi-file printing, but GstarCAD does not support it yet. ● ZWCAD 2026 has optimized smart batch print
Print PLT	√	√	"Batch Print" in ZWCAD and "Print PLT " in GstarCAD are basically the same.
Arrange Frame Automatically	√	√	<p>The functions and operations are the same, but the effects are quite different</p> <ul style="list-style-type: none"> ● ZWCAD does not support layout preview, and the effect of automatic layout is not ideal, and the drawing content cannot be seen. ● GstarCAD supports arrange frame preview, and the arrange frame effect is very nice
Publish	√	√	Functionality consistent
Auto Publish	×	√	/
Rapid Publish (PUBLISHRASTER)	√	×	/
Edit			
Frame selection, lasso selection, cycling selection	√	√	Functionality consistent
Fast Select	×	√	<ul style="list-style-type: none"> ● ZWCAD 2026 enhanced the selection function. Chain selection and reverse selection are added, which are easy to operate and improve the selection efficiency. Two more commands are added based on the usage scenarios: Select Similar Objects and Enhance Selection. The operation is simpler and more friendly to new users . ● GstarCAD 's Fast select function is similar to chain selection, but it can only select adjacent objects on the left and right.
Chain selection, reverse selection	√	×	
Select all, fast Selct, filter Select/Graphic Search(FILTER), Get Selection Set	√	√	
Selection tools (such as Get Selection by Object	√	√	<p>The functions are basically the same</p> <ul style="list-style-type: none"> ● ZWCAD also supports Get selection by line type, Get selection byline type ratio/line width/character height/text alignment/text

Type, Get Selection by Block Name,ect)			<p>style/dimension style/ hatch pattern name</p> <ul style="list-style-type: none"> GstarCAD also supports Get Selection by Layer, Get Selection by Color, Get Selection by Object/Layer, Get Selection by Object/Color, Get Selection by Layer/Color
Undo, redo, restore the delete Objects	✓	✓	<p>The functions are basically the same</p> <ul style="list-style-type: none"> GstarCAD supports merging zoom, pan and layer operations. After merging, multiple zooms and pans can be undone at once, and multiple consecutive layer operations can also be undone. Undo once, no need to repeat multiple times 
Cut, copy, Copy with base point, Paste, Paste as block, paste to the original Coordinates, Paste special	✓	✓	<p>Functionality consistent</p> <p>GstarCAD doesn't support copy and paste settings</p>
Copy link	×	✓	/
Find and Replace	✓	✓	Functionality consistent
Deleting Duplicate Objects (OVERKILL)	✓	✓	<p>The functions are basically the same</p> <ul style="list-style-type: none"> ZWCAD provides a separate command DELDUPL to delete overlapping lines (non- UI)
Delete Overlapping lines	✓	✓	<ul style="list-style-type: none"> GstarCAD 's delete duplicate objects and overlapping lines are both OVERKILL commands.
Layer draw order (LAYDRAW ORDER)	×	✓	/
Draworder by Color (CDORDER)	×	✓	/
Break Object (BREAKOBJ ECT)	×	✓	/
Move/Copy/Rotate (MOCORO)	×	✓	/

Extended Clip (CLIPIT)	×	√	/
Region Scale (DYJT / REGSCALE)	×	√	/
Layout by path (LAYOUTPATH)	×	√	/
Draw			
Hatch	√	√	<p>The functions are basically the same</p> <ul style="list-style-type: none"> ● ZWCAD puts the hatch option in the Ribbon area ● Hatch options in GstarCAD use the dialog box mode.
Rectangle	√	√	<p>The functions are basically the same</p> <ul style="list-style-type: none"> ● ZWCAD supports the creation of concentric rectangle and concentric polygons
Spline (Fit point, control vertices)	√	√	Functionality consistent
Revision Cloud	√	√	<p>The functions are basically the same</p> <ul style="list-style-type: none"> ● ZWCAD supports to create ellipse revision cloud and circle revision cloud, and can retain center grip after converting objects into revision cloud ● GstarCAD doesn't support ellipse revision cloud and circle revision cloud and couldn't keep the center grip
Divide by object, Divide by segment	√	√	Functionality consistent
Array	√	√	Functionality consistent
Hyperlink	√	√	GstarCAD has more functions, including support for selecting recently used files/web pages, right-clicking to copy the hyperlink, adding hyperlinks to my favorites, etc.
QR code, barcode code	√	√	<p>GstarCAD supports more options than ZWCAD.</p> 


Super hatch	√	√	<p>GstarCAD supports wipeout hatch, selecting the existing blocks or entities for hatch, and support for setting circle accuracy.</p> 
Free scale (FREESCALE)	√	√	The enhanced scale (EXSCALE) function of ZWCAD is similar, but it does not support specifying base points, and is not as complete as that of GstarCAD .
Outline (OUTLINE)	×	√	/
Align tool (ALIGNTOOL)	×	√	/
Arrange tool (ARRANGETOOL)	×	√	/
Pline Boolean (GC_BOOL OP)	×	√	/
Spline to line (SPLINE2LINE) , Spline to polyline (SPTPL)	×	√	/
Line to Pline (LINE2PL)	×	√	The two functions are similar, but Line to Pline in GstarCAD 's has an additional option to set the precision.
Join Lines (JOINL)	√	×	
Smooth curve	√	×	/
Angle Bisector (_angdiv)	√	×	/
Generate complementary Arc (_arccmp)	√	×	/
Linetype between continuous and Dashed2	√	×	/



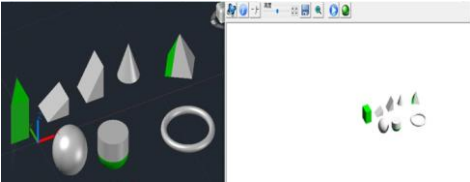
Dimension			
Smart Dimension (DIM)	√	√	<p>The functions are basically the same</p> <p>ZWCAD has added "Variable Status" and "Style" branches</p> 
Quick Dimension (QDIM)	√	√	Functionality consistent
Centerline	√	×	Centerline and center mark functions in GstarCAD are under development and are expected to be implemented in GstarCAD2027 (the current center mark function is limited)
Center mark/circle Heart mark	√	√	
Area table	√	√	<p>The functions are basically the same</p> <p>ZWCAD supports drawing area and creating boundary sets</p>
Export Coordinate (COEXPORT)	×	√	ZWCAD supports "Export to txt" option that can export the created point coordinates to txt, but it is not as flexible as this function of GstarCAD, and GstarCAD supports exporting to txt and xls formats
Coordinate Point (HCZZBD, DIMCORD)	×	√	<p>ZWCAD supports "DIMORDINATE" command, which can also mark coordinate positions, but only X or Y coordinates. GstarCAD can directly display the XY coordinates of coordinate points and supports settings such as scale, unit, and precision.</p>  
Change Z coordinate (changeZ)	×	√	ZWCAD supports "change Z value of Coordinate to 0" function, which is not as flexible as GstarCAD's "change Z coordinates"
Fast measure	×	√	/

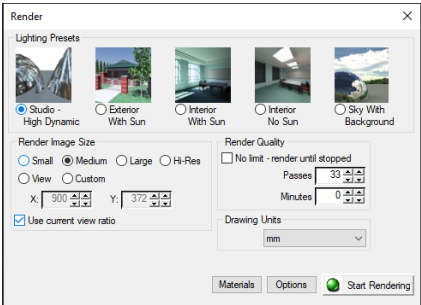
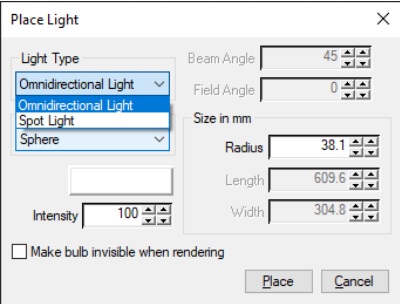
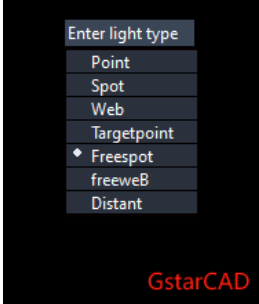
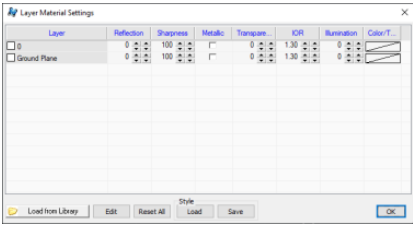
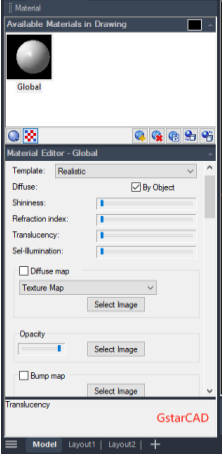
(RAPIDDIST)			
Change Dimension Text (CHGDIMXT), Change Dimstyle, Update Dimension, (DIMUPDATE)	×	√	/
Globle Attach Leader to Annotation, Detach Leaders from Annotation, Attach Leader to Annotation	×	√	/
Enhanced Ordinate dimension	√	×	/
Object dimension	√	×	/
Dimension Merge, Dimension Align,Dimension Text Dodge	√	×	/
Set as current dimension style, save as New style	√	×	These functions are all available in dimstyle in GstarCAD, but ZWCAD extracts them into separate commands and made some optimizations.
Reverse dim Text, chagne dim Text color, add or delete dim lines, Delete dimension	√	×	/
Size Drive	√	×	/
Text			
Scale Text (SCALETEXT)	×	√	/
Justify text (JUSTIFYTEXT)	√	√	<p>ZWCAD supports"JUST" command, but the two branches are slightly different.</p> 

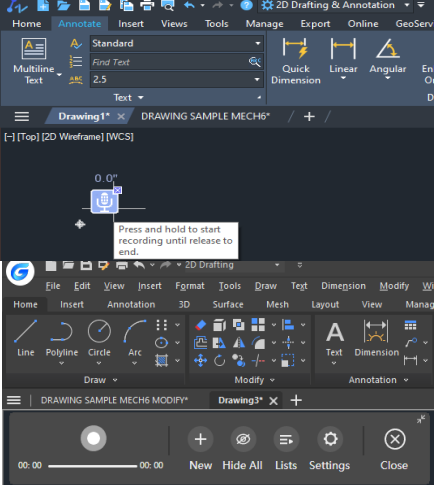
			
Text increment (GC_DZTEXT)	×	√	/
Statistical summation (KLL01)	×	√	/
Text Online (TextOnLine)	×	√	/
Text outline (EXPLODETEXT)	×	√	/
Enhanced text editor (MMTEXT)	×	√	/
Make Rtext (RTEXT), Change Rtext	×	√	/
Document Input	×	√	/
Change Text (CHANGETEXT)	×	√	/
Text Match (TEXTMATCH)	×	√	/
Change Text Style (CHGSTY)	×	√	/
Chinese Characters Split (TXTSPLIT)	×	√	/
Character Break (TXTBREAK)	×	√	/
Change One Character (CHGTX)	×	√	/
Change Text Height/ Text Width/Text Angle, /Text Position (TXTHEI, TXTWID, TXTANG, TXTPOS)	×	√	/
Delete Annotation (WZOFF)	×	√	/
Adjust Character (TTL2)	×	√	/

Glossary Storeroom(CHKCK)	×	√	/
Modify Text_Text Height/Width Factor/Angular/Obliquing Angle/Options (TXT40, TXT41, TXT50, TXT51, EDTXT)	×	√	/
Current Style, Change text height	√	×	These functions are available in the property panel. ZWCAD has made them into separate commands in advance.
Text Height Match	√	×	/
Convert Text to Pline	√	×	/
Convert Mtext to Text	√	×	/
Add Under line, Delete Under line	√	×	/
Layer			
Auto Layers (AUTOLAYER)	×	√	/
Isolate Layer to Current Viewport (LAYVPI)	×	√	/
Off Other Layers (LAYOFFOTHER)	×	√	/
Change Object Color in Same Layer (LAYCHGCOLOR)	×	√	/
Move Object in Same Layer(LAYMOVE)	×	√	/
Layer Browser (LAYERBROWSER)	√	×	/
Lock ALL Layer	√	×	/
Unlock non-selected layer, Lock Other	√	√	/
Unlock All Layers	√	√	/
Block			
Dynamic Block/Block parameters (BEDIT,	√	√	Functionality consistent

BPARAMETER. BACTION			
Block Authoring Palette	×	√	/
Block Table (BTABLE)	×	√	/
Attribute increment (ATTINC)	×	√	/
List Xref/Block Properties (XLIST)	×	√	/
Trim to Nested Objects (BTRIM)	×	√	/
Extend to block entities (BEXTEND)	×	√	/
Extend to Nested Objects (BLOCKTOXREF)	×	√	/
External Reference Relocate (CHGXREFPATH)	×	√	/
Modify block name/Rename Blocks	√	√	<p>The functions are basically the same</p> <p>When selecting a block object for editing, you can rename it .</p> <ul style="list-style-type: none"> • ZWCAD regards modifying block names as a separate command. You can modify this block, part of the block, or all blocks with the same name.
Blockscale (BSCALE)	√	×	/
Change Attribute Values (GATTE)	√	×	/
Reference			
DWG underlay, external reference	√	√	Functionality consistent
DWF underlay, PDF underlay	√	√	Functionality consistent
DGN Underlay	√	√	<p>When inserting DGN underlay into ZWCAD, some information will be lost</p> 

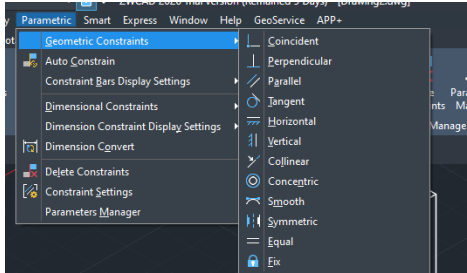
Raster image	✓	✓	The functions are the same, supporting all image files such as bmp , jpg , gif , tif , pcx , tga , png , ecw , jp 2 , j2k , cal , etc.
OLE	✓	✓	Functionality consistent
Point Cloud	✓	✓	<ul style="list-style-type: none"> ● ZWCAD only provides basic functions such as point cloud display, trim, and section line extraction. ● GstarCAD supports undet point cloud tools with richer functions. 
View			
Redo, regen, pan, and zoom	✓	✓	Functionality consistent
Maximize and minimize the viewport (VPMAX, VPMIN)	✓	✓	Functionality consistent
Visual style, Shaded	✓	✓	Functionality consistent
Navigation View Cube (NAVCUBE)	✓	✓	<p>GstarCAD supports navicube settings and other options</p> 
3D Orbit View	✓	✓	ZWCAD does not support orbit viewing along the X-axis, Y-axis, and Z-axis (3DXORBIT , 3DYORBIT , 3DZORBIT)
Rendering	✓	✓	<p>ZWCAD supports some rendering settings, but GstarCAD has better rendering effects and displays them on the current drawing, which can be viewed in real time .</p> 

			
Light	✓	✓	<p>GstarCAD has richer functions and more light source types</p> <div>   </div>
Material	✓	✓	<p>GstarCAD material panel has richer functions and is more user-friendly. It can flexibly adjust the reflectivity, refractive index, and transparency, and supports selecting images as texture maps. Transparency map or bump map, etc.</p> <div>   </div>
Viewport Scale (VPSCALE)	×	✓	/
Viewport Sync (VPSYNC)	×	✓	/
Layout Merge (LAYOUTMERGE)	×	✓	/
Camera, 3DSwivel, 3Dwalk, 3DFly (3D DISTAN CE,	✓	×	/

3DSWIVEL, 3DWALK, 3DFLY			
3D			
3D Modeling (Box, etc. Extrude, Revolve, Sweep, Loft, Section, Interference, Profile, Flatshot	✓	✓	GstarCAD has more functions, such as Polysolid, section plane, live section, add jog, create Section
3D operation 3D rotate, 3D Array, 3D mirror, 3D Move, 3D align)	✓	✓	GstarCAD has more functions, such as 3DMOVE
3D Solid Editing	✓	✓	GstarCAD has more functions, such as extract edges, Fillet Edge, Chamfer Edge, Imprint
Surface	✓	✓	GstarCAD has more functions, such as supporting offset face, Create NURBS, convert to NURBS, show/hide/add/delete control vertices
Mesh	✓	✓	<ul style="list-style-type: none"> ● GstarCAD supports convert to solid, convert to surface, and convert to mesh ● ZWCAD supports smoothing objects (increasing/decreasing smoothness) and optimize meshes
Region	✓	✓	Functionality consistent
Mass Properties	✓	✓	Functionality consistent
Tools			
Voice Manager/Smart Voice (VOICEMANAGER /SMARTVOICE)	✓	✓	<p>The functions are basically the same</p> <ul style="list-style-type: none"> ● ZWCAD has poor interactive guidance ● GstarCAD supports voice panel, which makes operation more convenient 

Mouse gestures/Smart Mouse (MOUSEGESTURES/SMARTMOUSE)	√	√	<p>The functions are basically the same.</p> <ul style="list-style-type: none"> ● ZWCAD supports adding gestures to other commands ● GstarCAD supports setting gesture line color
3D Mouse (3DCONNECTION)	√	√	/
Isolate	√	√	<p>The functions are basically the same</p> <p>ZWCAD supports display/hide by color</p>
Measure	√	√	<ul style="list-style-type: none"> ● GstarCAD supports measure distance, radius, angle, area, total area, total length, volume. The functions are richer. ● ZWCAD supports measure distance, radius, angle, area, and total area. In addition, ZWCAD has also made separate measure commands for the total length of straight lines, the total length of arcs, and the sum of areas.
Data extraction	√	√	Functionality consistent
Data Link	√	√	Functionality consistent
Attribute extraction	√	√	Functionality consistent
Visual LISP Editor	√	√	Functionality consistent
Visual Basic Editor	√	√	Functionality consistent
Group	√	√	<p>The functions are basically the same</p> <ul style="list-style-type: none"> ● ZWCAD provides a dialog box. ● GstarCAD is operated in the command line.
Object Snap	√	√	<p>The functions are basically the same</p> <p>GstarCAD supports snap divided segments, and ZWCAD supports snap the point cloud nodes.</p>
Polar Tracking	√	√	Functionality consistent
Dynamic Input	√	√	Functionality consistent
Symmetric Draw	√	√	Functionality consistent
Table export (BGDC), CAD table to Excel (GC_CTE)	√	√	GstarCAD can export as excel or wps table (Chinese version)

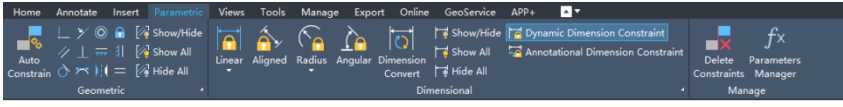
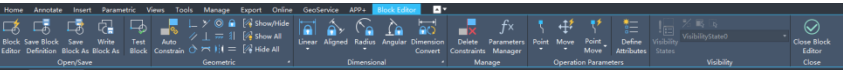
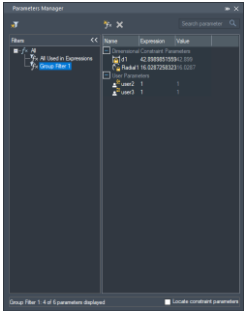
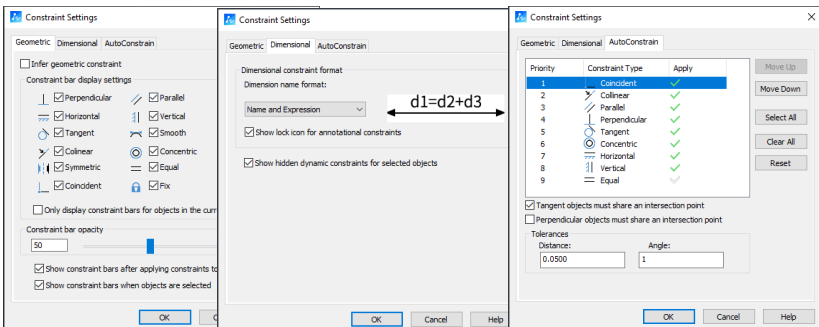
Magnifier (MAGNIFIER)	×	√	/
Graphic compare (OCMP)	×	√	/
Draw table (BGE)	×	√	/
AutoXIsTable (AutoXLSTabl e)	×	√	/
Make shapes (MKSHAPE)	×	√	/
System Variable Monitor (SYSVARMONITOR)	×	√	/
Drawing scale (SASCL)	×	√	/
Rotate cursor (RTCUR)	×	√	/
Draw Axonometric Line (SALPL)	×	√	/
Visual extension (ETT)	×	√	/
Normal Connect, Flex Connect (GXFILT, GXFSS)	×	√	/
Super Fillet (SFILLET)	×	√	/
Modify Lineweight (LCW)	×	√	/
Cross to Break, Control Break Width (CBK)	×	√	/
Modify Text	×	√	/
Supper Axonometric (SUPERAXON)	×	√	/
Application Manager (APPMANAGER)	×	√	/
CAD Standards (STANDARDS) (Configuration Standard, standard	√	×	/

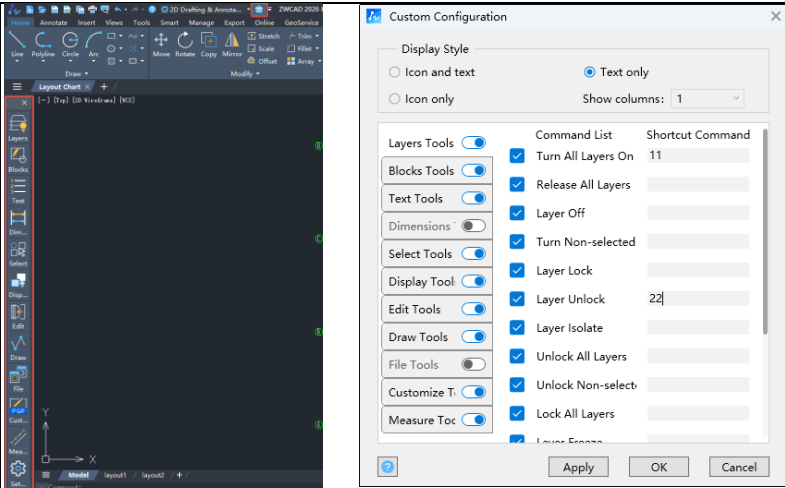
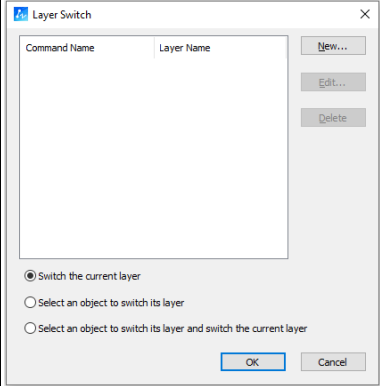
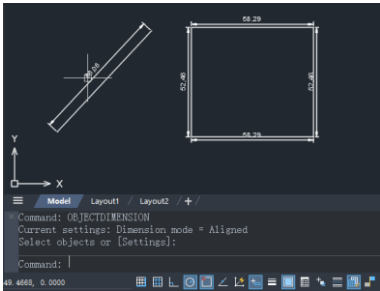
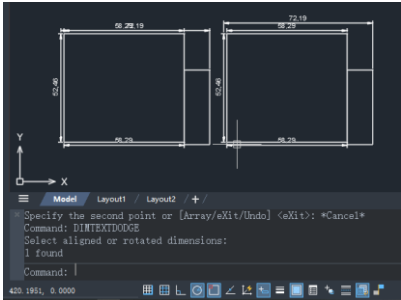
check)			
Scale List	√	×	/
Extended Plan	√	×	/
Delete Hatch	√	×	/
SXF Conversion (DWG2SXF,SXF2DWG, SXFIN, SXFOUT)	√	×	/
Size Driven (SIZEDRIVE)	√	×	/
Smart match, batch block, Object Count, similarsearch	√	×	/
Raster Image Vectorization	√	×	/
Parameter Constraints			
Geometric constraint	√	√	<ul style="list-style-type: none"> ● ZWCAD supports "Auto Constraint " ● ZWCAD supports geometric constraints and dimension constraints in dynamic blocks
Dimensional constraint	√	√	
Automatic constraint	√	×	/
Infer Constraint	√	×	/
Parameters Manager	√	√	Functionality consistent
GIS			
Online map, Marking system, position mark	√	×	<ul style="list-style-type: none"> ● ZWCAD has upgraded the original ArcGIS module to geographic location, and its functions are basically the same as AutoCAD .

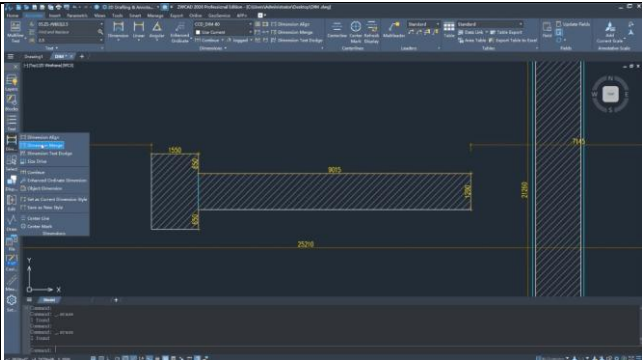
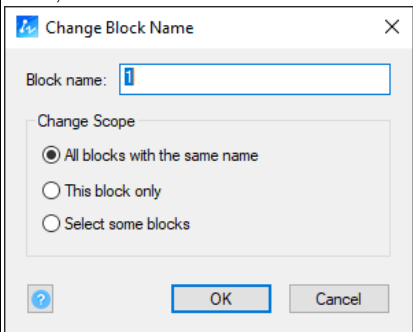
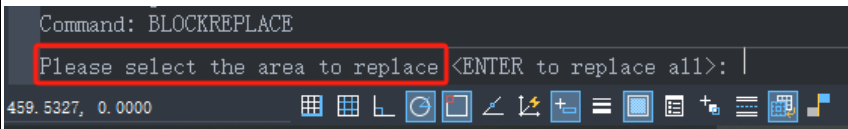
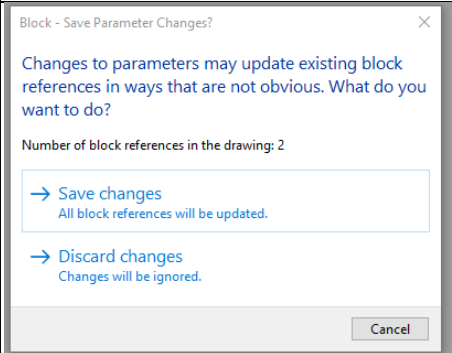
			<ul style="list-style-type: none"> GstarCAD 2026 does not support geographic location yet, but provides an additional plug-in ArcGIS. GstarCAD for Linux supports this feature, but the coordinate system relatively less than ZWCAD. 
BIM			
BIM Structural Panel	√	√	<ul style="list-style-type: none"> GstarCAD supports displaying BIM information in the property panel and supports editing. ZWCAD property panel still displays as a block reference object and does not support displaying BIM information GstarCAD supports moving, copying, etc. operations directly by selecting a certain entity, but ZWCAD does not support The right-click menu of the GstarCAD structure panel supports operations such as display, isolation, zoom, expand all, collapse all, select, and highlight on a single entity. ZWCAD does not support GstarCAD supports configuration the structure panel, such as group/sort, display/skip, options, etc., but ZWCAD does not support
Collaboration			
Cloud Storage	√	√	<p>ZWCAD uses Baidu Cloud and Huawei Cloud</p> <p>GstarCAD uses GstarCAD Cloud storage</p>
365	×	√	<p>The combination of GstarCAD 365 and GstarCAD supports cross-terminal, multi-professional, and multi-scenario CAD collaborative design and project management, and provides cloud applications such as lightweight viewing, cloud storage, cloud annotation, instant messaging, and drawing management. Function.</p> <p>Currently, ZWCAD 2026 does not have a built-in collaboration function, but only has the function of saving documents to the cloud.</p>

5. New Features Comparison

5.1. ZWCAD 2026 New Features

Features	Description	GstarCAD Supports	Comparison
Geometric Constraint		✓	GstarCAD does not support "Autoconstraint"
Dimension Constraint		✓	/
Constraint for dynamic Block		×	/
Parameters Manager		✓	Functionality consistent
Constraint Settings		✓	GstarCAD does not currently support the infer geometric constraint and auto constraint tab

ZWCAD Toolbox		×	/
Layer Switch	<p>Easily switch the current layer through custom commands</p> 	×	/
Object Dimension	<p>Automatically dimensions of all selected objects in batches (only for lines, polylines, 3D polylines, regions , wipeout)</p> 	×	/
Dimension Text Dodge	<p>Automatically adjust the position of the text in the selected dimension to avoid overlapping.</p> 	×	/
Dimension Merge	<p>Merge dimensions with the same dimension line direction and dimension type, and creates a new dimension within the extension lines of selected dimensions.</p>	×	/

			
Block Attribute Edit	Quickly edit the value of the attribute block. Press Ctrl and double-click an attribute to display the in-place editor.	×	/
Change BLOCK name	Quickly change the names of all blocks with the same name, currently selected block, or some blocks. 	√	GstarCAD supports Rename Block function when editing a block, which is similar to the function.
Save as Block in place Edit	You can apply block changes to new blocks without affecting old blocks, define the new block name and base point, or directly apply changes to old blocks without changing the block name after modifying the base point.	×	/
Block Replace		√	The functions are basically the same. GstarCAD also provides a panel, while ZWCAD only supports the command Line Operation
Dynamic Block		√	GstarCAD and AutoCAD dynamic blocks are bidirectionally compatible
Automatic matching paper size	Automatic matching paper size	√	GstarCAD supports blocks, layers, polylines, straight lines, and specified Select frame to

Frame Recognition Mode: Supports both 'Universal mode' and 'Conditional mode' to recognize frames.

Single Document Auto-search: Supports multiple pointing or boxing of frames.

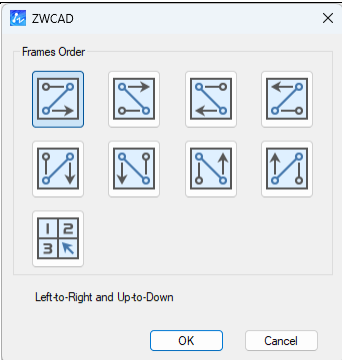
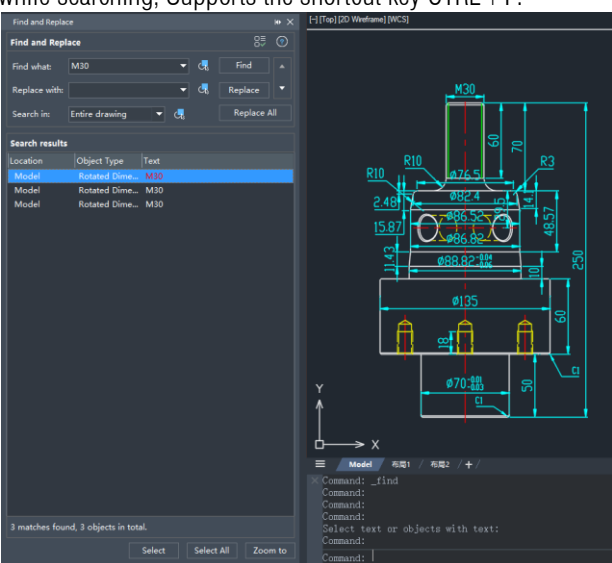
Multi-document Batch Search: In multi-document printing scenarios, realize the customization of the finding range of picture frames, and support specifying the finding conditions of picture frames and the finding range of models/layouts in drawings.

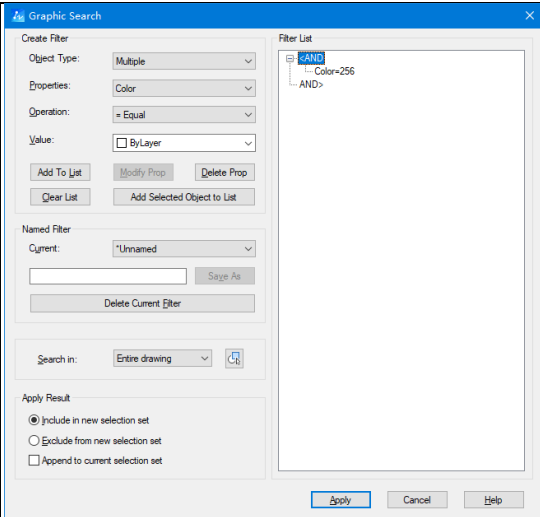
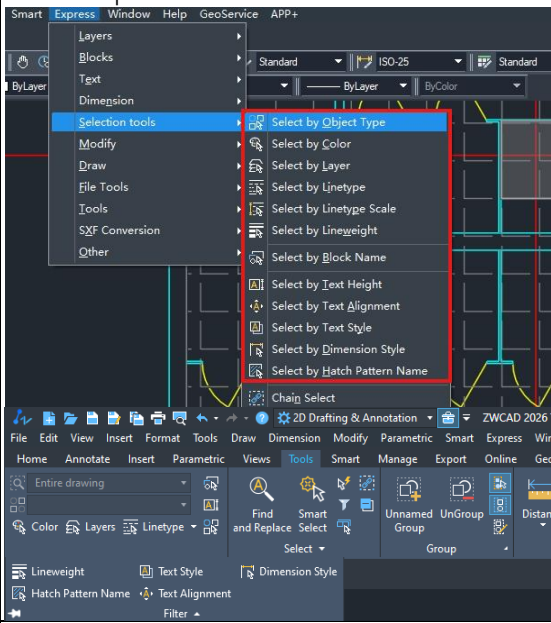
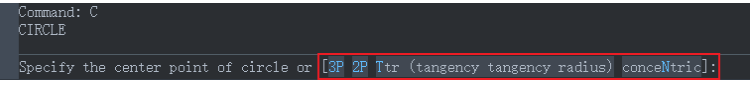
Frames Library Management: Support specifying the print settings and naming methods of commonly used block-referenced picture frames.

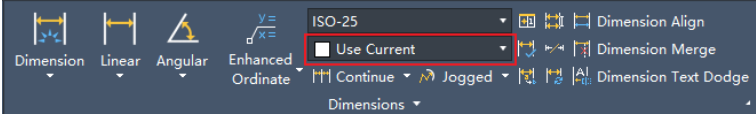
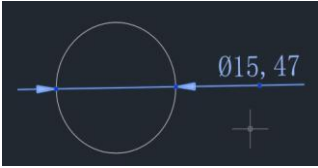
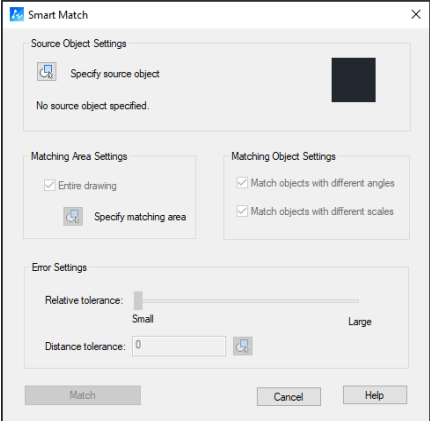
New Options Enhance Black and White Print, Print Layout Improvements are added. Enriched Frame Sorting, provide 9 kinds of frame sorting methods.

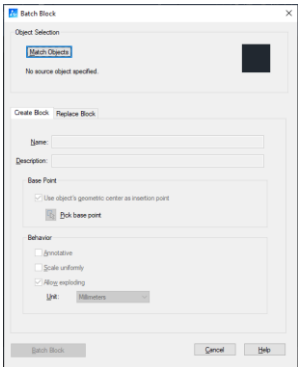
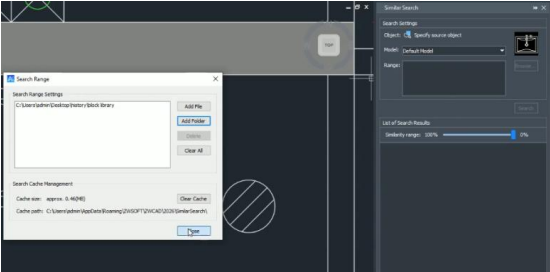
identify the drawing frame. However, ZWCAD classifies these methods into "General mode" and "conditional mode"

The function of "drawing frame library management" is not currently supported by GstarCAD

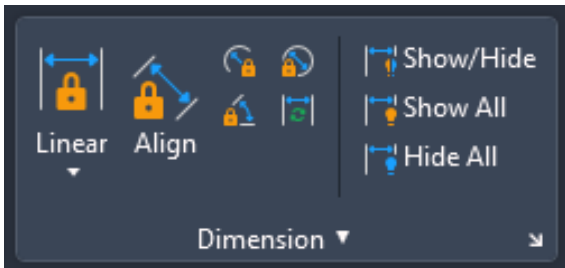
	 <p>Multiple Naming Conventions Add Naming Method dialog box is added to provide diversified naming styles. Easy Catalog Generation Reuse drawing naming information to extend the ease of use of the smart plot function.</p>		
Print Quality	New Print Quality option is added.	√	GstarCAD supports more printing qualities
PC3 Compatible	Supports direct reading of files saved by other companies PC 3 print configuration files; supports directly reading the pmp file configuration files; implementation Mutual compatibility	√	Same functions (ZW's own is PC 5)
FIND function optimization	<p>Text search supports panel based operations, allowing for editing of search content while searching; Supports the shortcut key CTRL + F.</p> 	√	Functionality consistent
FILTER function is optimized	The FILTER dialog is separated from the FIND dialog, and the dialog design and operation process are more streamlined.	√	Functionality consistent

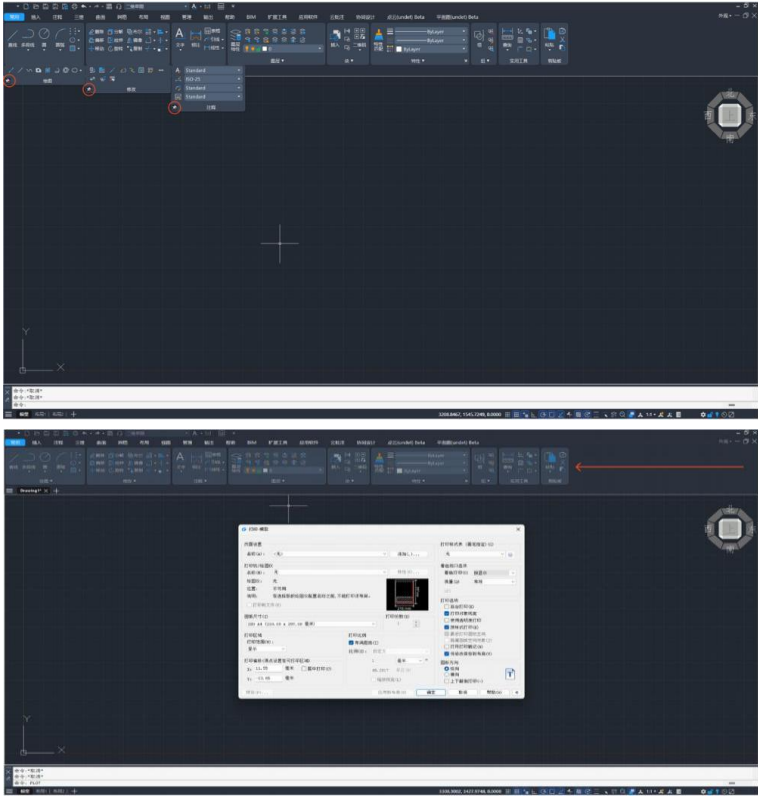
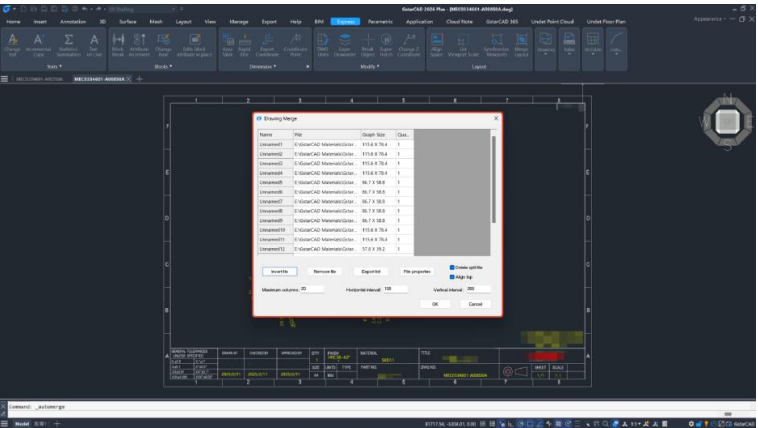
			
SMARTSEL function is optimized	Filter primitive objects support panel operation, and users can perform compound filtering based on object types and attributes.	✓	GstarCAD 's "Selection Tool" is similar, but there is no panel
selecting objects for filtering in the drawing area	<p>By clicking on objects in the drawing area, directly filter objects with the same attributes such as layer, color, line type, block name, etc. Support selecting menus and ribbon panels.</p> 	✓	The functions are basically the same. GstarCAD provides selection tools menu, but no Ribbon panel
Add Chain Selection function	Through the chain selection function, the connected loose wires can be quickly selected in batches.	×	GstarCAD 's Fast select is similar, but can only select adjacent objects.
Command line keyword click	<p>During command execution, you can click a keyword on the command line to activate the command branch.</p> 	×	GstarCAD Linux version support
Smart Dimension	The revamped DIM command supports intelligent recognition of selected objects and continuously creates dimension types that best fit the current context within the same command flow.	✓	ZWCAD has added "Variable Status" and "Style" branches

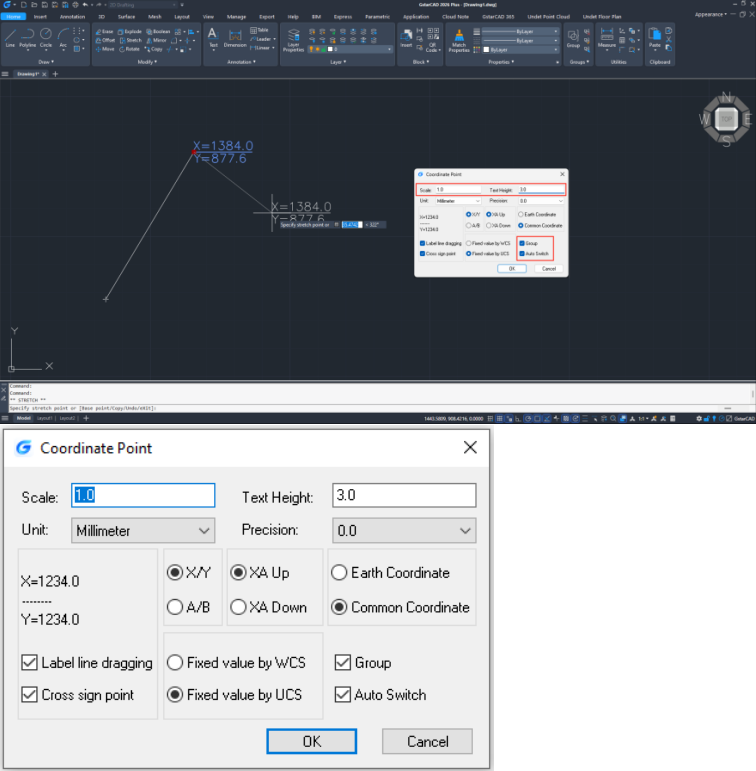
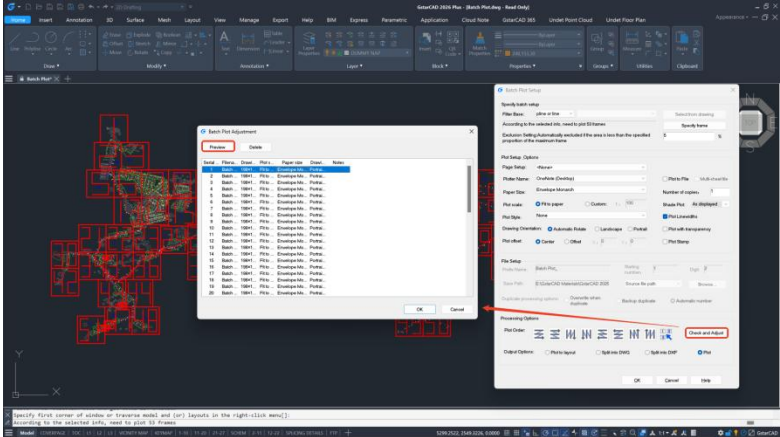
Support Setting Dim Layers	<p>Support users to individually specify layers for dimensions, which can be set through the Ribbon menu or the system variable DIMLAYER.</p> 	√	GstarCAD supports setting Dimension layers through DIMLAYER command, but no Ribbon Menu
Dimension Grip Menu	<p>Implement dimension text pinch menu and dimension clip size line pinch menu, simplify dimension text editing operations, and provide simple and fast entry points for baseline dimension, continuous dimension, flipping arrows, and other operations.</p> 	√	Functionality consistent
Centerlines and Center Marks	<p>Add Centerline and Center Mark functions, supporting the creation of associated centerlines for selected line objects or center marks for selected circles or arcs, and the ability to adjust the appearance of centerlines/center marks.</p>	×	Under development, it is expected to be available in GstarCAD 26 SP 1 or 2027
Display Optimization	<p>Resolve the issue of highlighting overlapping objects when selected When objects overlap completely or partially, select the object and highlight the bottom shape. Enhance the highlighting effect By adjusting the highlight color, increasing contrast, and optimizing edge anti-aliasing. Combining hardware acceleration and rendering optimization techniques, the smoothness and accuracy of highlight display are further improved.</p>	√	GstarCAD also optimized the display.
Hardware acceleration	<p>Solve the problem that hardware acceleration cannot be turned on or displayed under certain graphics cards and hardware environments</p>	√	√
3D Performance Optimization	<p>Added system variable ENABLEGRAPHICSCACHE, when the number of 3D entity meshes exceeds 10 million, the 3D entity mesh data is written to disk cache, which speeds up the time for reopening the drawing.</p>	√	√
Smart Match	<p>Automatically identify identical shapes and support batch editing to improve drawing editing efficiency, reducing manual effort significantly.</p> 	×	/

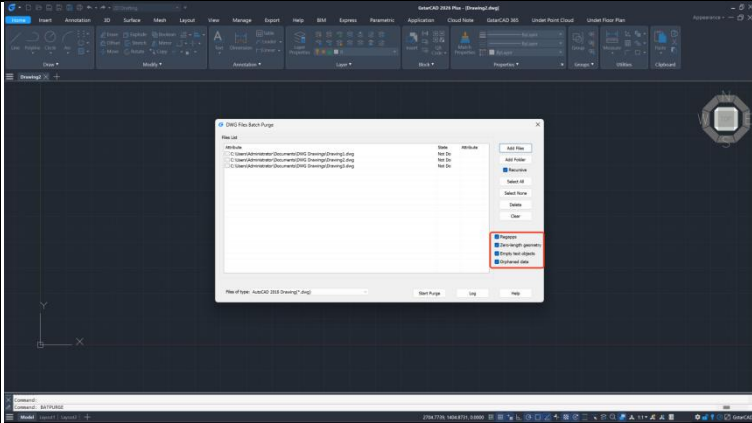
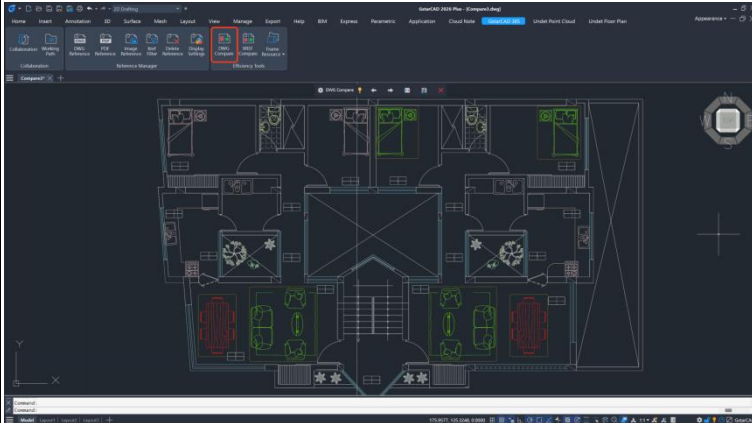
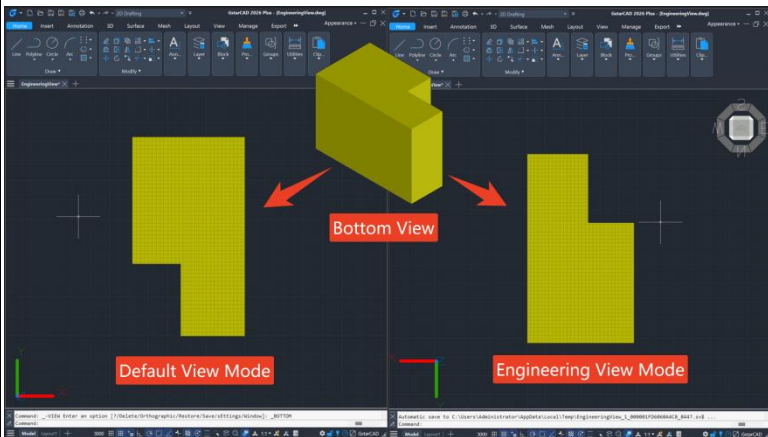
Batch Block	<p>BATCHBLOCK command, convert the matching objects to block reference according for the block definition settings.</p> 	×	/
Similar Search		×	/
Coordinate System Compatibility	<p>Improve the compatibility of coordinate system and realize read compatibility of 900+ coordinate system in ZWCAD.</p> <p>Support the use of geographic location to attach RCS formatted point clouds.</p> <p>Add location marker entities to support adding location markers in drawings, which include geometric location, geographic location, textual description, and other information.</p>	×	GstarCAD for Linux supports location marker, but has few coordinate systems and does not support Attaching a point cloud
Improved Compatibility of FAS/VLX Plugins	<p>Upgraded LISP binary instruction set, enhanced ZWCAD's parsing ability for FAS binary code, and improved compatibility with FAS/VLX files.</p> <p>Compatible with LISP encryption schemes based on FAS binary code, providing stronger underlying support for LISP developers to protect source code security</p> <p>Support loading and using more FAS/VLX plugins</p>	✓	Functionality consistent

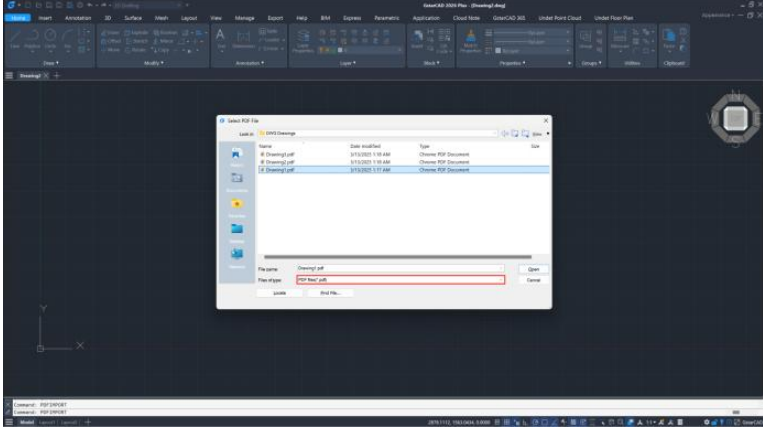
5.2. GstarCAD 2026 New Features

New Features/Improvements		ZWCAD Supports	Comparison
Performance Improvements	Multi-reference drawing opening (without clipping) optimization	/	/
	EXTEND command (Fence/Crossing) optimization		
	TRIM command (Fence/Crossing) optimization		
	Clipped blocks & Xrefs optimization		
	Block editing preview optimization		
	MIRROR operation optimization		
	Block creation/explosion optimization		
	Hatch performance optimization		
Parametric Constraints		√	The functions are the same
Interface Improvements	Visual Refresh: New visual styles for dark and light themes	√	The functions are basically the same
	New SVG Icons: Redesigned color schemes and proportions, with 1500+ icons redrawn in SVG for clear and smooth display at any scale.	/	
	Application Access Menu: Optimize the main menu button display effect Support click to print, send to first level menu directly Optimize recent document display logic	√	
	Ribbon Added fixed display of expanded sub-panels Optimize the disabling effect of ribbon Optimize the print preview panel	√	

			
	<p>Status Bar</p> <ul style="list-style-type: none"> Optimize selection effect 	✓	
Drawing Merge	<p>You can now batch analyze, split, and merge drawings via Xrefs with customizable layout settings, view entity properties, and export the drawing list to a .lst file.</p> 	×	/
Dimension coordinate(DIMCORD)	<p>The DIMCORD command now features leader lines instead of polylines, so moving a text block automatically carries its leader with it, making label placement more intuitive. The updated “Parameters” dialog also lets you adjust scale and text height, and includes new Group and Auto Switch options for greater flexibility and ease of use.</p>	×	/

			
Batch Plot Improvement	<p>You can now sequentially preview frame records: click any record to start, press the spacebar to advance (with the active frame highlighted), and press space again on the last frame to exit preview and return to the Adjustment dialog box.</p> 	✓	The functions are basically the same
BATPURGE Improvement	<p>The Batch Purge tool now supports cleaning up registered applications, zero-length geometries, empty text objects, and orphaned drawing data.</p>	×	/

			
DWG Compare	<p>This feature compares a specified drawing with the current drawing, using revision clouds to highlight the differences. It allows users to configure comparison settings, import objects from the compared drawing, and export and bind the results into new snapshot drawings for future reference.</p> 	✓	The functions are basically the same
Engineering Projection (ENGINEERINGVIEWMODE)	<p>You can now use the ENGINEERINGVIEWMODE variable to switch the bottom view from ACAD's default to a true engineering projection for improved accuracy.</p> 	×	/

<p>PDF Import Improvement</p>	<p>The PDF import engine has been upgraded to the modern, actively maintained PDFium library—boosting import speed, enhancing raster image rendering (transparency, clarity, color accuracy), improving text recognition and decoding (same-line text recognized as MText for easier editing), and delivering crisper hatch displays.</p> 	<p>√</p>	<ul style="list-style-type: none"> • ZWCAD provides import progress bar
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6. GstarCAD Innovative Features

GstarCAD has customized a large number of unique functions according to user needs.

The innovative features of GstarCAD:

GstarCAD Innovative Features

Features	Description
Align Tool (ALIGNTOOL)	Allows you to align the selected objects along the X or Y axis coordinates.
ACAD Tool Palettes Import Tool	Import AutoCAD© customized Tool palettes in the WINDOWS Start menu easily.
Area Sum (AREASUM)	Displays the current closed region value and area sum sequence in command line.
Area Table (AREATABLE)	Dimensions and counts the area of an enclosed object and exports the result to a table in the current drawing area.
Arrange Tool (ARRANGETOOL)	Aligns multiple objects left, right, top, bottom, center, vertical or laterally.
Attribute Increment (ATTINC)	Attributes values increment automatically or manually according to specified method.
Auto Layer (AUTOLAYER)	Customizes and predefines the associated layer of a command to streamline drafting workflow.
AUTOXLSTABLE	Allows to insert excel, and static block quantity, area and length and auto update the data according to the changes of the object.
Barcode (BARCODE)	Allows inserting the barcode to objects to corresponding paper documents and electronic drawing file.
Batch Print(BP)	Batch prints the drawing frames by pages.
Batch Purge (BATPURGE)	Batch purges the redundant blocks, layers, linetype, dimensions and text, etc in drawings.
Block Break (BLOCKBREAK)	Allows you to wipeout or break an object that is overlapped by a reference block.
Break Object (BREAKOBJECT)	Breaks the intersected lines and allows you to set the gap value.
CAD table to EXCEL (GC_CTE)	Converts sheets, composed by line/Spline and text/Mtext in CAD, to EXCEL.
Change Base (CHANGEBASE)	Modifies the base point position of the block.
Change Text (CHANGETEXT)	Modifies several texts simultaneously.
CIRCLE(C) Parameter	CIRCLE(C) parameter; Draws multiple concentric circles with one radius.
Collaboration	The GstarCAD Collaboration Tool is an embedded plugin available for GstarCAD

	platform aimed to help CAD designers work together among a single referenced drawing file at the same time, control drawing revisions and manage medium, big or complex projects with ease and reliability, reducing communication barriers across different industries.
Define Layout Viewport from Model Space(M2LVPORT)	Creates a viewport on layout space by selecting objects in the model space.
Dimension Coordinate (DIMCORD)	Marks X, Y coordinate values of the point.
Distance from Endpoint Snap	Allows to sap a certain distance from any endpoint of objects and the distance value can be modified at status bar at any time.
Divide Segments Snap	Allows snap the divided segment points of objects and the divided segment number can be modified at any time.
Export Coordinate (COEXPORT)	Exports the coordinate of the picking point to txt or xls files.
FILLET(I) Invert Parameter	Creates a reverse fillet by this option.
Frame Automatically (FRAMEAR)	Automatically searches for the frame, calculates according to the frame size, and arranges multiple drawings on a large-format drawing reasonably.
Free Scale (FREESCALE)	Scales an object without restrictions under three modes; Non-Uniform, Rectangle and Free.
Freeze Other Layer (LAYFRZOTHER)	Freezes other layers except the layer where the selected object is located.
Graphic Compare (OCMP)	Compares graphic of two groups of objects or two files.
GstarCAD tools (12 functions)	Allows you to quickly draw the industry drawings with GstarCAD tools
Import HPGL/2 (IMPORTHPGL)	Imports a PLT files.
Get Selection by Block Name (GETBLKSEL)	Multi-selects objects with the same name in specified area.
Get Selection by Object Type (GETENTSEL)	Multi-selects objects with the same entity type in specified area.
Get Selection by Layer (GETLAYSEL)	Selects all the objects in specified layer and specified region at one time.
Get Selection by Color (GETCOLSEL)	Quick selects the objects with the same color.
Get Selection by Object/Layer	Selects entities by entity type and layer.

(GETENTLAYSEL)	
Get Selection by Object/Color (GETENTCOLSEL)	Selects entities by entity type and color.
Get Selection by Layer/Color (GETLAYCOLSEL)	Selects entities by color and layer.
Dimension Coordinate Position (HCZZBD)	Dimensions the coordinate position.
Layer Draw Order (LAYDRAWORDER)	Changes the order of the layers by bringing to front or sending to back.
Lock Other Layers (LAYLCKOTHER)	Locks other layers except the layer where the selected object is located.
Layer Unlock All (LAYULKALL)	Unlocks all layers.
Off Other Layers (LAYOFFOTHER)	Turns off other layers except the layer where the selected object is located.
Magnifier (MAGNIFIER)	Views a specific area of your drawing as a magnifier with the capability of snap points without performing zoom in/out on big drawings.
OFFSET(B) Both Sides	Offsets to both side, no need to operate twice.
Outline (OUTLINE)	Generates the outline by clicking the closed region.
Pline Boolean (GC_BOOLOP)	Operates the closed pline with union, intersection and subtraction.
Print PLT(PRINTPLT)	Prints the generated PLT file.
QR Code(QRCODE)	Extracts data or inputs data to generate QRcode which can be scanned by mobile device to obtain data.
Rapid Distance (RAPIDDIST)	Measures distance and angle between 2D objects along X, Y axis rapidly by moving mouse.
RECTANGLE(O) Parameter	RECTANGLE(O) parameter, Draws an rotate rectangle with (O)option
Region Scale (REGSCALE)	Selects a region of a drawing to be cut and copied to a new location.
ROTATE(Multiple)Parameter	Copies many objects with different rotate angles, or draw circles array.
Shortcut Customization (CUSTACC)	Customizes the shortcut key.
Spline to Pline (Sptpl)	Converts spline to polyline according to the accuracy (number of segments of the arc) that the user assigns.

Statistics Summation (KLL01)	Sums up the selected text or Mtext.
Symmetric Draw	Directly draws symmetrical shapes, it can omit the operation of the mirror.
Text Incremental Copy (GC_dztext)	Accomplishes kinds of incremental methods for text.
Text Align (TEXTALIGN)	Aligns text along X or Y coordinates, or along a line of specific direction.
Text Match (TEXTMATCH)	Matches both text and Mtext attributes in the current drawing, avoiding select and edit text attributes one by one.
Text Online (TEXTONLINE)	Distributes the text uniformly along a selected spline, polyline or arc. It can also create text online quickly for multiple curves.
Total Length (MEASUREGEOM)	Inquire total length of the selected lines.
WIPEOUT (supports circle and arc)	Generates wipeout by clicking circle or a pline object contains arcs.
.....	

Besides developing plenty of innovative features, GstarCAD has improved the basic operations in order to simplify the operation steps. For example, Adds multiple copies in rotate command, realize the copy rotate and circle array; Adds divided by segment and distance from endpoint, layout by path, etc. to accomplish the liner array. Supports invert fillet option in fillet command which is welcomed by designers.

The innovative features enhance your drawing efficiency greatly.

7. Conclusion

Through the above comparison, we can make the following conclusions: GstarCAD 2026 is far advantageous in terms of compatibility, functionality, user experience and so on. Compared with ZWCAD 2026, GstarCAD is a better choice.



GstarCAD 2026

<https://www.gstarcad.net>

Distribution Partner

<https://gstarcadaustralia.com/>

Gstarsoft

Distribution Partner

<https://gstarcadaustralia.com/>

	GstarCAD 2026			ZWCAD 2026	
Operation System	Plus	Pro	Std	Pro	Std
Windows Support	✓	✓	✓	✓	✓
Linux Support		✓	✓		
macOS Support		✓	✓		
Files	Plus	Pro	Std	Pro	Std
64-bit Support	✓	✓	✓	✓	✓
.dwg and .dxf for AutoCAD version 2.5 to 2018	✓	✓	✓	✓	✓
.pat,.shx,.lin and etc	✓	✓	✓	✓	✓
Password Protection	✓	✓	✓		
File Recover and Audit	✓	✓	✓	✓	✓
Purge	✓	✓	✓	✓	✓
Etransmit	✓	✓	✓	✓	✓
Sheet Set manager	✓	✓	✓	✓	✓
CAD Standard .dws	✓	✓	✓	✓	✓
Xrefs in-place Editing	✓	✓	✓	✓	✓
DWF Underlay	✓	✓	✓	✓	✓
PDF Underlay	✓	✓	✓	✓	✓
DGN Underlay	✓	✓	✓	✓	✓
DWG Convert	✓	✓	✓		
Import WMF, SAT, 3DS, DWF, DWFX, DGN, PDF, SVG	✓	✓	✓	Partially	Partially
Export to DWG, DWF, DWFX, WMF, EMF, SAT, STL, EPS, DXF	✓	✓	✓	Partially	Partially
Import dae, fbx, obj, ply	✓	✓	✓		
Import XTP file from Toolpalettes	✓	✓	✓	✓	✓
Plot and Publish to PDF	✓	✓	✓	✓	✓
Publish to DWF 2D & 3D	✓	✓	✓	✓	✓
Collaboration	✓ 365	✓ 365	✓ 365		
IFC Import/Export and Edit	✓	✓		Not support Export	Not support Export
RVT Import and Edit	✓	✓			
ACAD Tool Palettes Import Tool	✓	✓	✓		
Single-document Mode	✓	✓	✓	✓	✓
Digital Signature	✓	✓	✓	✓	✓
Batch Digital Signing Tool	✓	✓	✓	✓	✓
Reset Settings to Default.	✓	✓	✓	✓	✓
STEP Import	✓	✓		✓	
IGES Import	✓	✓			
DWGUNITS	✓	✓	✓		
Drawing Merge	✓	✓	✓		
Interface	Plus	Pro	Std	Pro	Std
Drag to Split the Viewport	✓	✓	✓		
Quick Properties	✓	✓	✓	✓	✓
Hidden Message Settings	✓	✓	✓	✓	✓
WorkSpace command	✓	✓	✓	✓	✓
3D Modeling Workspace	✓	✓	✓	✓	✓
Color Scheme	✓	✓	✓	✓	✓
CUI Menus and Toolbars	✓	✓	✓	✓	✓
CUI Import & Export	✓	✓	✓		
Drag and Drop Customization	✓	✓	✓	✓	✓
Visual Menu Customization	✓	✓	✓	✓	✓
Ribbon / Classic	✓	✓	✓	✓	✓
Properties Palettes	✓	✓	✓	✓	✓
Design Center / Tool Palettes	✓	✓	✓	✓	✓
Xref Palette	✓	✓	✓	✓	✓
Command Line	✓	✓	✓	✓	✓
Clean Screen	✓	✓	✓	✓	✓

Menu bar	✓	✓	✓	✓	✓
File Tab	✓	✓	✓	✓	✓
Selection, Snap & Track	Plus	Pro	Std	Pro	Std
3D Mouse Device Adaption	✓	✓	✓	✓	✓
Lasso Selection	✓	✓	✓	✓	✓
Navigation Cube	✓	✓	✓	✓	
SELECTIONCYCLING	✓	✓	✓	✓	✓
Right-Click + Drag Method	✓	✓	✓	✓	✓
Selection Preview	✓	✓	✓	✓	✓
Quick Select	✓	✓	✓	✓	✓
Select Similar	✓	✓	✓	✓	✓
Xtra Grips for Pline & Hatch Objects	✓	✓	✓	✓	✓
Osnap	✓	✓	✓	✓	✓
Grid and Snap	✓	✓	✓	✓	✓
Polar & OTrack	✓	✓	✓	✓	✓
Distance from Endpoint and Divide Segments options	✓	✓	✓		
Multifunctional Grips	✓	✓	✓	✓	✓
Group	✓	✓	✓	Different Method	Different Method
ADDSELECTED command	✓	✓	✓	✓	✓
Multiple command	✓	✓	✓	✓	✓
Customizable Mouse Actions in CUI	✓	✓	✓	✓	✓
Smart Match				✓	
Similar Search				✓	
Dimensions	Plus	Pro	Std	Pro	Std
Smart Dimension	✓	✓	✓	✓	✓
Dimension Grip menu	✓	✓	✓	✓	✓
Center Mark (DIMCENTER)	✓	✓	✓	Partially	
Center Line				✓	
Reassociate Dimension	✓	✓	✓	✓	✓
DIMTOFFSET	✓	✓	✓		
Rapid Distance	✓	✓	✓		
Standard Dimensions	✓	✓	✓	✓	✓
Associative Dimension	✓	✓	✓	✓	✓
Quick Dimension	✓	✓	✓	✓	✓
Qleader	✓	✓	✓	✓	✓
Dimension Break	✓	✓	✓	✓	✓
Multileaders	✓	✓	✓	✓	✓
Dynamic Dimensions	✓	✓	✓	✓	✓
Voice Annotation	✓	✓	✓	✓ Smart Voice	✓ Smart Voice
Parametric Constraints (Geometric)	Plus	Pro	Std	Pro	Std
Auto Constraint				✓	
Coincident Constraint	✓			✓	
Perpendicular Constraint	✓			✓	
Parallel Constraint	✓			✓	
Tangent Constraint	✓			✓	
Horizontal Constraint	✓			✓	
Vertical Constraint	✓			✓	
Collinear Constraint	✓			✓	
Concentric Constraint	✓			✓	
Smooth Constraint	✓			✓	
Symmetric Constraint	✓			✓	
Equal Constraint	✓			✓	
Fix Constraint	✓			✓	
Constraint Settings	✓			✓	
Delete Constraints	✓			✓	

Show/Hide Constraint	✓			✓	
Parametric Constraints (Dimension)	Plus	Pro	Std	Pro	Std
Linear Constraint	✓			✓	
Horizontal Constraint	✓			✓	
Vertical Constraint	✓			✓	
Aligned Constraint	✓			✓	
Angular Constraint	✓			✓	
Radius Constraint	✓			✓	
Diameter Constraint	✓			✓	
Constraint Settings	✓			✓	
Delete Constraints	✓			✓	
Show/Hide Constraint	✓			✓	
Parameters Manager	✓			✓	
Dynamic Constraint Mode	✓			✓	
Annotational Constraint Mode	✓			✓	
Text	Plus	Pro	Std	Pro	Std
Mtext supports Numbering, Superscript, Subscrip.....	✓	✓	✓	✓	✓
Text Align / Text Match	✓	✓	✓		
Change Text	✓	✓	✓		
Mtext	✓	✓	✓	✓	✓
Text	✓	✓	✓	✓	✓
Multi-language Character Set	✓	✓	✓	✓	✓
In-place Text Editor	✓	✓	✓	✓	✓
Mtext Editor	✓	✓	✓	✓	✓
Support .shx and .ttf font	✓	✓	✓	✓	✓
Spelling	✓	✓	✓	✓	✓
Check spelling in Mtext	✓	✓	✓	✓	✓
Fields	✓	✓	✓	✓	✓
Revcloud	✓	✓	✓	✓	✓
Wipeout circle option	✓	✓	✓	✓	✓
Rtext / Arc Text	✓	✓	✓	ArcText	ArcText
Text Incremental Copy	✓	✓	✓		
Text on line	✓	✓	✓		
Statistics Summation	✓	✓	✓		
Layers	Plus	Pro	Std	Pro	Std
Auto Layer	✓	✓	✓		
Change to ByLayer (SETBYLAYER)	✓	✓	✓	✓	✓
Layer Properties Manager	✓	✓	✓	✓	✓
Layer States Manager	✓	✓	✓	✓	✓
Layer Translator	✓	✓	✓	✓	✓
Layer Walk	✓	✓	✓	✓	✓
Layer Previous	✓	✓	✓	✓	✓
Layer Isolate	✓	✓	✓	✓	✓
Layer Unisolate	✓	✓	✓	✓	✓
Layer Lock	✓	✓	✓	✓	✓
Layer Unlock	✓	✓	✓	✓	✓
Layer Unlock All	✓	✓	✓		
Lock Other Layers	✓	✓	✓		
Layer Freeze	✓	✓	✓	✓	✓
Freeze Other Layer	✓	✓	✓		
Thaw All Layers	✓	✓	✓	✓	✓
Layer Off	✓	✓	✓	✓	✓
Off Other Layer	✓	✓	✓		
Trun All Layers On	✓	✓	✓	✓	✓
Layer Merge	✓	✓	✓	✓	✓

Layer Delete	✓	✓	✓	✓	✓
Layer Match	✓	✓	✓	✓	✓
Viewport Layer	✓	✓	✓	✓	✓
Layer Browser				✓	✓
Hatch	Plus	Pro	Std	Pro	Std
Hatch objects from Tool Palettes	✓	✓	✓	✓	✓
Gradient Hatches	✓	✓	✓	✓	✓
Custom Patterns	✓	✓	✓	✓	✓
Background and Color for Hatch Patterns	✓	✓	✓	✓	✓
Trim/Extend of/to Hatch Pattern Entities	✓	✓	✓	✓	✓
Superhatch	✓	✓	✓	✓	✓
Transparency for Hatch	✓	✓	✓	✓	✓
Trim/Extend/Hatch preview	✓	✓	✓		
Raster images	Plus	Pro	Std	Pro	Std
Raster Image Support (Clipping, Transparency, ...)	✓	✓	✓	✓	✓
Support Kinds of Image Files (bmp\jpg\png\tga\tif\gif\pcx\	✓	✓	✓	✓	✓
Raster to Vector Conversion				✓	
Express Tools	Plus	Pro	Std	Pro	Std
Lockup (with password)	✓	✓	✓	✓	✓
Layout Merge	✓	✓	✓		
Synchronize Viewports	✓	✓	✓		
Breakpoint Check (CLOSELINE)	✓	✓	✓	✓	✓
Fast Select (FASTSEL)	✓	✓	✓		
Change Base	✓	✓	✓	✓	✓
Layer Draw Order	✓	✓	✓		
Area Table	✓	✓	✓	✓	✓
Break Object	✓	✓	✓		
Graphic Compare	✓	✓	✓		
Text Align / Text Match	✓	✓	✓	Align Text	Align Text
Batpurge	✓	✓	✓		
Layout by Path	✓	✓	✓		
Line2pl	✓	✓	✓		
Sptpl	✓	✓	✓		
GstarCAD Tools	✓	✓	✓		
Plot tools	✓	✓	✓		
Drawing Compare	✓	✓	✓	File Compare	File Compare
Delete Duplicate Objects (OVERKILL)	✓	✓	✓	✓	✓
Others	Plus	Pro	Std	Pro	Std
Hardware Acceleration	✓	✓	✓	✓	✓
Break at Point	✓	✓	✓	✓	✓
CLIPIT Command	✓	✓	✓		
Quick Edit Block Attribute Text	✓	✓	✓		
System Variable Monitor	✓	✓	✓		
Region	✓	✓		✓	
Dataextraction	✓	✓	✓	✓	✓
Datalink	✓	✓	✓	✓	✓
Make Shape	✓	✓	✓		
Import Layout as Sheet in Layout Context Menu	✓	✓	✓		
Viewport Scale	✓	✓	✓		
VPMAX/VPMIN	✓	✓	✓	✓	✓
Attribute Increment (ATTINC)	✓	✓	✓		
Define Layout Viewport from ModelSpace (M2LVPORT)	✓	✓	✓		
Security	✓	✓	✓		
Free Scale	✓	✓	✓		
Hatch to Back	✓	✓	✓	✓	✓

Reverse	✓	✓	✓		
Synchronize Attributes (ATTSYNC)	✓	✓	✓	✓	✓
Clip	✓	✓	✓	✓	✓
ARRAY (Dynamic)	✓	✓	✓	✓	✓
Align Tool / Arrange Tool	✓	✓	✓		
Areasum	✓	✓	✓	✓	✓
Table	✓	✓	✓	✓	✓
Symmetric Draw	✓	✓	✓	✓	✓
Outline Objects	✓	✓	✓		
Invert Fillet	✓	✓	✓		
Draw and Modify Commands	✓	✓	✓	✓	✓
Offset Multiple	✓	✓	✓	✓	✓
Helix	✓	✓	✓	✓	✓
Real Time Pan & Zoom	✓	✓	✓	✓	✓
Annotative Objects	✓	✓	✓	✓	✓
Object Scales	✓	✓	✓	✓	✓
Redraw and Regeneration	✓	✓	✓	✓	✓
Layout and Paper Space	✓	✓	✓	✓	✓
Layout Viewport settings (Visual Styles)	✓	✓	✓		
Magnifier	✓	✓			
Barcode & QR Code	✓	✓	✓	✓	✓
Non-rectangular Viewports	✓	✓	✓	✓	✓
Shortcut Customization (CUSTACC)	✓	✓	✓		
Match Properties	✓	✓	✓	✓	✓
Multilines and Multiline Styles	✓	✓	✓	✓	✓
Block Create and Insert	✓	✓	✓	✓	✓
Block Attribute Definition	✓	✓	✓	✓	✓
Redefine Block	✓	✓	✓	✓	✓
Refedit	✓	✓	✓	✓	✓
Hyperlink	✓	✓	✓	✓	✓
Scale List	✓	✓	✓	✓	✓
Dynamic Block Create/Insert/View/Edit	✓	✓	Partially	✓	✓
Table Tools	✓	✓	✓		
AutoXLSTable	✓	✓	✓		
Pline Boolean	✓	✓	✓		
SmartMouse	✓	✓	✓	✓	✓
Undo/Redo Preview	✓	✓	✓	✓	✓
Invert Xclip	✓	✓	✓	✓	✓
Table Formula	✓	✓	✓	✓	✓
3D	Plus	Pro	Std	Pro	Std
POLYSOLID	✓	✓			
PLANESURF	✓	✓		✓	
SURFOFFSET	✓	✓			
CONVTOMESH	✓	✓		✓	
CONVTOSOLID	✓	✓			
CONVTOSURFACE	✓	✓			
CONVTONURBS	✓	✓			
Point Cloud	✓	✓	✓	✓	
3D Edition Grips	✓	✓		✓	
Section Plane	✓	✓		✓	
Flatshot	✓	✓		✓	✓
3D Surfaces	✓	✓	✓	✓	✓
ACIS Modeling & Editing	✓	✓		✓	
3D Orbit options	✓	✓	✓	Partially	Partially
Render	✓	✓		✓	
Visual Styles Manager	✓	✓			

Solid editing	✓	✓		Partially	
Solprof / Solview / Soldraw	✓	✓		Only Solprof	
Printing	Plus	Pro	Std	Pro	Std
CTB & STB Plot Style Files	✓	✓	✓	✓	✓
Plot Styles Table Editor	✓	✓	✓	✓	✓
Built-in Print Driver	✓	✓	✓	Partially	Partially
Import & Editing of Page Setups	✓	✓	✓	✓	✓
Publish	✓	✓	✓	✓	✓
AUTOPUBLISH	✓	✓	✓		
PUBLISH RASTER				✓	✓
Hide and Shade Plot	✓	✓	✓	Partially	Partially
Batch Print	✓	✓	✓	✓	✓
Arrange Frame	✓	✓	✓		
Programming	Plus	Pro	Std	Pro	Std
Python	✓	✓	✓		
LISP Debugger	✓	✓	✓	✓	✓
ActiveX, Including In-place Editing	✓	✓	✓	✓	✓
Entity Data Editor	✓	✓	✓	✓	✓
LISP Support with vl-, vlr-, vla- and vlax- support	✓	✓	✓	✓	✓
LISP Encryption	✓	✓	✓	✓	✓
Solutions Development System (SDS/ADS)	✓	✓	✓	✓	✓
DCL / DCL engine / COM API	✓	✓	✓	✓	✓
Visual Basic for Applications	✓	✓	✓	✓	
VBA VBI Projects Support	✓	✓	✓	✓	✓
.Net	✓	✓	✓	✓	
GRX (GstarCAD Runtime eXtension)	✓	✓	✓	ZRX	
CUI Menu Support and Diesel Expressions	✓	✓	✓		
MNU and MNS File Support	✓	✓	✓	✓	✓
API for Toolbar and Menu Customization	✓	✓	✓	✓	✓
Licensing	Plus	Pro	Std	Pro	Std
Subscription	✓	✓	✓		
Stand-alone USB dongle	✓	✓	✓	✓	✓
Network USB dongle	✓	✓	✓		
Stand-alone License (Flexnet)	✓	✓	✓	✓	✓
Network License (Flexnet)	✓	✓	✓	✓	✓

REMARKS

This table is for reference only.

Empty space means functionally not supported.

The package that contains LT version does not support BEDIT.

Table comparison updated on May 21 2025.

The above feature comparison is based on the Windows version.

	GstarCAD 2026			AutoCAD 2026	
Operation System	Plus	Pro	Std	Com	LT
Windows Support	✓	✓	✓	✓	✓
Linux Support		✓	✓		
macOS Support		✓	✓	✓	
Files	Plus	Pro	Std	Com	LT
64-bit Support	✓	✓	✓	✓	✓
.dwg/.dxf for AutoCAD version 2.5 to 2018	✓	✓	✓	✓	✓
.pat,.shx,.lin and etc	✓	✓	✓	✓	✓
File Recover and Audit	✓	✓	✓	✓	✓
Purge	✓	✓	✓	✓	✓
Etransmit	✓	✓	✓	✓	✓
Sheet Set Manager	✓	✓	✓	✓	✓
CAD Standard .dws	✓	✓	✓	✓	
DWF Underlay	✓	✓	✓	✓	✓
PDF Underlay	✓	✓	✓	✓	✓
DGN Import and Underlay	✓	✓	✓	✓	✓
DWG Convert	✓	✓	✓	✓	✓
Import WMF, SAT, 3DS, DWF, DWFX, DGN, PDF,	✓	✓	✓	Partially	Partially
Export to DWG, DWF, DWFX, WMF, EMF, SAT,	✓	✓	✓	Partially	Partially
Plot and Publish to PDF	✓	✓	✓	✓	✓
Publish to DWF 2D & 3D	✓	✓	✓	✓	✓
Collaboration	✓ 365	✓ 365	✓ 365	Different	Different
IFC Import/Export and Edit	✓	✓			
RVT Import and Edit	✓	✓			
Single-document Mode	✓	✓	✓	✓	✓
Digital Signature	✓	✓	✓	✓	✓
Batch Digital Signing Tool	✓	✓	✓	✓	✓
Reset Settings to Default.	✓	✓	✓	✓	✓
STEP/IGES Files	✓	✓		✓	
DWGUNITS	✓	✓	✓	✓	✓
Drawing Merge	✓	✓	✓		
Mark Up				✓	✓
Connected Support Files				✓	
Activity Insights				✓	
Interface	Plus	Pro	Std	Com	LT
3D Modeling Workspace	✓	✓	✓	✓	✓
Quick Properties	✓	✓	✓	✓	✓
Block Palette				✓	✓
Dark Theme	✓	✓	✓	✓	✓
Hidden Message Settings	✓	✓	✓	✓	✓
WorkSpace command	✓	✓	✓	✓	✓
CUI Menus and Toolbars	✓	✓	✓	✓	
CUI Import & Export	✓	✓	✓	✓	✓
Drag and Drop Customization	✓	✓	✓		
Visual Menu Customization	✓	✓	✓	✓	✓
Ribbon/Classic	✓	✓	✓	✓	✓
Properties Palettes	✓	✓	✓	✓	✓
Design Center/Tool Palette/Xref Palette	✓	✓	✓	✓	✓
Command Line	✓	✓	✓	✓	✓
Clean Screen	✓	✓	✓	✓	✓
Dynamic Input and Auto Complete	✓	✓	✓	✓	✓
Clickable Command Line Options				✓	✓
File Tab	✓	✓	✓	✓	✓
Floating Windows				✓	✓

Selection, Snap & Track	Plus	Pro	Std	Com	LT
3D Mouse Device Adaption	✓	✓	✓	✓	✓
Lasso Selection	✓	✓	✓	✓	✓
Navigation Cube	✓	✓	✓	✓	✓
SELECTIONCYCLING	✓	✓	✓	✓	✓
Right-Click + Drag Method	✓	✓	✓	✓	✓
Selection Preview	✓	✓	✓	✓	✓
Selection Effect Customization				✓	✓
Quick Select	✓	✓	✓	✓	✓
Select Similar	✓	✓	✓	✓	✓
Multifunctional Grips	✓	✓	✓	✓	✓
Osnap	✓	✓	✓	✓	✓
Grid and Snap	✓	✓	✓	✓	✓
Polar & OTrack	✓	✓	✓	✓	✓
Distance from Endpoint and Divide Segments	✓	✓	✓		
Group	✓	✓	✓	✓	✓
ADDSELECTED command	✓	✓	✓	✓	✓
Multiple command	✓	✓	✓	✓	✓
Dimensions	Plus	Pro	Std	Com	LT
DIMCENTER Command	✓	✓	✓	Partially	Partially
Reassociate Dimension	✓	✓	✓	✓	✓
DIMTOFFSET	✓	✓	✓		
Quick Measure	Rapid Distance	Rapid Distance	Rapid Distance	✓	✓
Standard Dimensions	✓	✓	✓	✓	✓
Associative Dimension	✓	✓	✓	✓	✓
Quick Dimension	✓	✓	✓	✓	✓
Qleader	✓	✓	✓	✓	✓
Dimension Break	✓	✓	✓	✓	✓
Multileaders	✓	✓	✓	✓	✓
Dynamic Dimensions	✓	✓	✓	✓	✓
Voice Annotation	✓	✓	✓		
Parametric Constraints (Geometric)	Plus	Pro	Std	Com	LT
Auto Constraint				✓	
Coincident Constraint	✓			✓	✓
Perpendicular Constraint	✓			✓	✓
Parallel Constraint	✓			✓	✓
Tangent Constraint	✓			✓	✓
Horizontal Constraint	✓			✓	✓
Vertical Constraint	✓			✓	✓
Collinear Constraint	✓			✓	✓
Concentric Constraint	✓			✓	✓
Smooth Constraint	✓			✓	
Symmetric Constraint	✓			✓	✓
Equal Constraint	✓			✓	✓
Fix Constraint	✓			✓	✓
Constraint Settings	✓			✓	✓
Delete Constraints	✓			✓	✓
Show/Hide Constraint	✓			✓	✓
Parametric Constraints (Dimension)	Plus	Pro	Std	Com	LT
Linear Constraint	✓			✓	
Horizontal Constraint	✓			✓	
Vertical Constraint	✓			✓	
Aligned Constraint	✓			✓	
Angular Constraint	✓			✓	
Radius Constraint	✓			✓	

Diameter Constraint	✓			✓	
Constraint Settings	✓			✓	
Delete Constraints	✓			✓	
Show/Hide Constraint	✓			✓	
Parameters Manager	✓			✓	
Dynamic Constraint Mode	✓			✓	
Annotational Constraint Mode	✓			✓	
Text	Plus	Pro	Std	Com	LT
Text Align / Text Match	✓	✓	✓	Text Align	Text Align
Change Text	✓	✓	✓		
Mtext	✓	✓	✓	✓	✓
Mtext Superscript and Subscripts	✓	✓	✓	✓	✓
Text	✓	✓	✓	✓	✓
Multi-language Character Set	✓	✓	✓	✓	✓
In-place Text Editor	✓	✓	✓	✓	✓
Mtext Editor	✓	✓	✓	✓	✓
Support .shx and .ttf font	✓	✓	✓	✓	✓
Spelling	✓	✓	✓	✓	✓
Check spelling in Mtext	✓	✓	✓	✓	✓
Field	✓	✓	✓	✓	✓
Revcloud	✓	✓	✓	✓	✓
Wipeout Circle and Arc Options	✓	✓	✓		
Text Incremental Copy	✓	✓	✓		
Automatic Text Numbering	✓	✓	✓	✓	✓
Text on line	✓	✓	✓		
Statistics Summation	✓	✓	✓		
Layers	Plus	Pro	Std	Com	LT
Auto Layer	✓	✓	✓		
Change to ByLayer (SETBYLAYER)	✓	✓	✓	✓	✓
Layer Properties Manager	✓	✓	✓	✓	✓
Layer States Manager	✓	✓	✓	✓	✓
Layer Translator	✓	✓	✓	✓	
Layer Walk	✓	✓	✓	✓	✓
Layer Previous	✓	✓	✓	✓	✓
Layer Isolate	✓	✓	✓	✓	✓
Layer Unisolate	✓	✓	✓	✓	✓
Layer Lock	✓	✓	✓	✓	✓
Layer Unlock	✓	✓	✓	✓	✓
Layer Unlock All	✓	✓	✓		
Lock Other Layers	✓	✓	✓		
Layer Freeze	✓	✓	✓	✓	✓
Freeze Other Layer	✓	✓	✓		
Thaw All Layers	✓	✓	✓	✓	✓
Layer Off	✓	✓	✓	✓	✓
Off Other Layer	✓	✓	✓		
Trun All Layers On	✓	✓	✓	✓	✓
Layer Merge	✓	✓	✓	✓	✓
Layer Delete	✓	✓	✓	✓	✓
Layer Match	✓	✓	✓	✓	✓
Viewport Layer	✓	✓	✓	✓	✓
Hatch	Plus	Pro	Std	Com	LT
Hatch objects from Tool Palettes	✓	✓	✓	✓	✓
Gradient Hatches	✓	✓	✓	✓	✓
Custom Patterns	✓	✓	✓	✓	✓
Background and Color for Hatch Patterns	✓	✓	✓	✓	✓

Trim/Extend of/to Hatch Pattern Entities	✓	✓	✓	✓	✓
Superhatch	✓	✓	✓	✓	
Transparency for Hatch	✓	✓	✓	✓	✓
Trim/Extend/Hatch preview	✓	✓	✓	✓	✓
Raster images	Plus	Pro	Std	Com	LT
Raster Image Support (Clipping, Transparency, ...)	✓	✓	✓	✓	✓
Support Kinds of Image Files (bmp\jpg\png\tga\tif\gif\pcx\ecw...)	✓	✓	✓	✓	✓
Express Tools	Plus	Pro	Std	Com	LT
Lockup Command	✓	✓	✓		
Layout Merge	✓	✓	✓	✓	✓
Synchronize Viewports	✓	✓	✓	✓	✓
Breakpoint Check (CLOSELINE)	✓	✓	✓		
Fast Select (FASTSEL)	✓	✓	✓	✓	✓
Change Base	✓	✓	✓		
Layer Draw Order	✓	✓	✓		
Stat, Blocks Number	✓	✓	✓	Count Command	Count Command
Area Table	✓	✓	✓		
Break Object	✓	✓	✓		
Block Break	✓	✓	✓		
Graphic Compare	✓	✓	✓		
Batpurge	✓	✓	✓		
Layout by Path	✓	✓	✓	Array path	Array path
Line2pl	✓	✓	✓		
Sptpl	✓	✓	✓		
GstarCAD Tools	✓	✓	✓		
Plot tools	✓	✓	✓		
Drawing Compare	✓	✓	✓	DWG COMPARE	DWG COMPARE
Delete Duplicate Objects (OVERKILL)	✓	✓	✓	✓	✓
Block Replace	✓	✓	✓	✓	✓
Others	Plus	Pro	Std	Com	LT
Hardware Acceleration	✓	✓	✓	✓	✓
Break at Point	✓	✓	✓	✓	✓
Region	✓	✓		✓	✓
Make Shape	✓	✓	✓	✓	✓
Import Layout as Sheet	✓	✓	✓	✓	✓
Viewport Scale	✓	✓	✓	✓	✓
VPMAX/VPMIN	✓	✓	✓	✓	✓
Attribute Increment	✓	✓	✓		
Define Layout Viewport from ModelSpace (M2LVP)	✓	✓	✓		
Security	✓	✓	✓	✓	
Free Scale	✓	✓	✓		
Hatch to Back	✓	✓	✓	✓	✓
Reverse	✓	✓	✓	✓	✓
Synchronize Attributes	✓	✓	✓	✓	✓
Clip	✓	✓	✓	✓	✓
Array Options	✓	✓	✓	✓	✓
Align Tool / Arrange Tool	✓	✓	✓		
Areasum	✓	✓	✓		
Table	✓	✓	✓	✓	✓
Symmetric Draw	✓	✓	✓		
Outline Objects	✓	✓	✓		
Smart Centerlines/Center Marks				✓	✓
Invert Fillet	✓	✓	✓		
Draw and Modify Commands	✓	✓	✓	✓	✓

Offset Multiple	✓	✓	✓	✓	✓
Helix	✓	✓	✓	✓	✓
Real Time Pan & Zoom	✓	✓	✓	✓	✓
SteeringWheels				✓	✓
Redraw and Regeneration	✓	✓	✓	✓	✓
Layout and Paper Space	✓	✓	✓	✓	✓
Layout Viewport settings	✓	✓	✓	✓	✓
Magnifier	✓	✓			
Barcode & QR Code	✓	✓	✓		
Non-rectangular Viewports	✓	✓	✓	✓	✓
Shortcut Customization (CUSTACC)	✓	✓	✓		
Match Properties	✓	✓	✓	✓	✓
Multilines and Multiline Styles	✓	✓	✓	✓	
Block Create and Insert	✓	✓	✓	✓	✓
Redefine Block	✓	✓	✓	✓	✓
Block Attribute Definition	✓	✓	✓	✓	✓
Refedit	✓	✓	✓	✓	✓
Hyperlink	✓	✓	✓	✓	✓
Scale List	✓	✓	✓	✓	✓
Dynamic Block Creat/ Insert/View/Edit	✓	✓	Partially	✓	✓
Table Tools	✓	✓	✓		
AutoXLSTable	✓	✓	✓		
Pline Boolean	✓	✓	✓		
Xref path repair				✓	✓
Undo/Redo Preview	✓	✓	✓	✓	✓
Smart Blocks				✓	
3D	Plus	Pro	Std	Com	LT
POLYSOLID	✓	✓		✓	
PLANESURF	✓	✓		✓	
SURFFOFFSET	✓	✓		✓	
CONVTOMESH	✓	✓		✓	
CONVTOSOLID	✓	✓		✓	
CONVTOSURFACE	✓	✓		✓	
CONVTONURBS	✓	✓		✓	
Point Cloud	✓	✓	✓	✓	
3D Edition Grips	✓	✓		✓	
Section Plane	✓	✓		✓	
Flatshot	✓	✓		✓	
3D Surfaces	✓	✓	✓	✓	
ACIS Modeling & Editing	✓	✓		✓	
3D Orbit options	✓	✓	✓	✓	
Camera				✓	
Render	✓	✓		✓	
Visual Styles Manager	✓	✓		✓	
Solid editing	✓	✓		✓	
Solprof / Solview / Soldraw	✓	✓		✓	
Printing	Plus	Pro	Std	Com	LT
CTB & STB Plot Style Files	✓	✓	✓	✓	✓
Plot Styles Table Editor	✓	✓	✓	✓	✓
Built-in Print Driver	✓	✓	✓	✓	✓
Import & Editing of Page Setups	✓	✓	✓	✓	✓
Publish	✓	✓	✓	✓	✓
AUTOPUBLISH	✓	✓	✓	✓	✓
3D Print Studio				✓	
Hide and Shade Plot	✓	✓	✓	✓	✓
Batch Print	✓	✓	✓		

Arrange frame	✓	✓	✓		
Programming	Plus	Pro	Std	Com	LT
Load Python	✓	✓	✓		
LISP Debugger	✓	✓	✓	✓	
Entity Data Editor	✓	✓	✓	✓	
Action Recording and Action Macros				✓	
LISP vl-, vlr-, vla- and vlax	✓	✓	✓	✓	
LISP Encryption	✓	✓	✓	✓	
(SDS/ADS)	✓	✓	✓	✓	
DCL / DCL engine / COM API	✓	✓	✓	✓	
Visual Basic for Applications	✓	✓	✓	✓	
VBA VBI Projects Support	✓	✓	✓	DVB	
.Net Framework	✓	✓	✓	✓	
GRX (GstarCAD Runtime eXtension)	✓	✓	✓	ARX	
CUI Menu Support/Diesel Expressions	✓	✓	✓	✓	✓
Diesel Expressions	✓	✓	✓	✓	✓
MNU and MNS File Support	✓	✓	✓	✓	✓
API (Toolbar & Menu Customization)	✓	✓	✓	✓	
Licensing	Plus	Pro	Std	Com	LT
Subscription	✓	✓	✓	✓	✓
Pepetual License	✓	✓	✓		
Stand-alone USB dongle	✓	✓	✓		
Network USB dongle	✓	✓	✓		
Stand-alone License	✓	✓	✓	✓	✓
Network License	✓	✓	✓		

REMARKS

This table is for reference only.

Empty space means functionally not supported.

The GstarCAD package that contains LT version does not support BEDIT.

Table comparison updated on May 21st 2025.

The above feature comparison is based on the Windows version.



GstarCAD 2026 vs AutoCAD 2026

GstarCAD 2026

Distribution Partner
<https://gstarcadaustralia.com/>



GstarCAD

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GstarCAD 2026 VS AutoCAD 2026

GstarCAD 2026 introduces a completely reconstructed interface, offering a sleek, modern look that enhances the user experience. Performance improvements boost efficiency across various tasks. Exciting new features include Dimensional Constraints, Parameters Manager, DWG Compare and more, unlocking powerful design capabilities. Innovative feature like Drawing Merge streamlines workflows, and Engineering Projection delivers precise bottom-view accuracy. Additionally, updates to DIMCORD, Batch Plot, Batch Purge, PDF Import and Data Extraction further enhance usability.

1. Product Comprehensive Comparison

GstarCAD is well-known alternative CAD software of high compatibility with ACAD. With over 20 years of continuous improvement and lean innovation, today GstarCAD is far ahead in performance, stability and other key indicators and becomes leading CAD software in the world.

The significant advantages of GstarCAD 2026 are as follows:

- **Price and Authorization:** GstarCAD 2026 is significantly more cost-effective than AutoCAD 2026, offering better licensing flexibility.
- **Performance of Common Operations:** In a comparison of common operations, the speed of 11 operations in GstarCAD 2026 outperforms that of AutoCAD 2026. Notably, the speed of 8 operations is over 300% better, while 2 operations exceed a 1000% improvement compared to AutoCAD 2026.
- **Linux System Support:** GstarCAD 2026 provides a version for Linux, whereas AutoCAD 2026 does not.
- **Secondary Development Interface:** GstarCAD 2026 provides a Python secondary development interface, enhancing the possibilities for software ecosystem development.
- **SVG Import and Export, DWF Import Function Advantages:** GstarCAD 2026 supports the import and export of SVG format files and the import of DWF files, which are not available in AutoCAD 2026.

2. Functional comparison

2.1. Key Features Comparison

Modules	Function	Description	GstarCAD 2026	Remark
2D drafting/Graphics/Annotations	Array	Create and modify objects in circular or rectangular arrays or along a path.	✓	
	Center Marks and Center Lines	Create and edit centerlines and center marks that move automatically when you move associated objects.	✗	Under developing, expected to be available in GstarCAD 2026 SP version or GstarCAD 2027 version.

Data Extraction	Extract information, blocks and attributes from objects, including graphical information.	✓	
Data Links	Enables simultaneous updates by creating a live link between a Microsoft Excel spreadsheet and a table in a drawing.	✓	
Dimensions	Automatically create dimensions. Hover your cursor over a selected object to see a preview before creating it.	✓	
Dynamic Blocks	Add flexibility and intelligence to block references, including changing shape, size, or configuration.	✓	
Fields	Use a field in a text object to display text that automatically updates when the field value changes.	✓	
Layout	Specify drawing size, add title blocks, and display multiple views of the model.	✓	
Leader	Create leaders with a variety of resources, including text or blocks. Easily format leaders and define styles.	✓	
Parametric constraints	Apply geometric and dimensional constraints to maintain relationships between geometries.	✓	GstarCAD 2026 new: supports geometric and dimensional constraints
Purge	Remove multiple unwanted objects at once with simple selection and object preview.	✓	
Revision Cloud	Draw revision clouds for the latest changes in a drawing to quickly identify updates.	✓	REVCLOUDPROPERTIES Command unsupported. Does not affect usage
Table	Apply formulas, link to Microsoft Excel spreadsheets, and create tables containing data and symbols. Automatically import data into tables using features such as counting.	✓	
Text Settings	Create single-line or multiline text (mtext) as a single text object. Easily format text, columns, and borders.	✓	

	View	Save views by name and easily return to a specific view for quick reference or to apply to a layout viewport.	✓	CAMERA NEWVIEW VIEWBACK VIEWFORWARD Command unsupported. Does not affect usage
3D Modeling and Visualization	3D Navigation	Use 3D viewing and navigation tools to orbit, swivel, walk, and fly around 3D models to present your designs.	✗	3DCLIP 3D DISTANCE 3DFLY 3DPAN 3DSWIVEL 3DWALK 3DZOOM ANIPATH WALKFLYSETTINGS Commands unsupported. Support NAVI (View) cube
	Model Documentation	Generate 2D drawings from 3D models, including basic views, projection views, section views, and detail views.	✗	
	Point Cloud	Attach point cloud files acquired by 3D laser scanners or other technologies to use as a starting point for your design.	✓	PCEXTRACTCENTERLINE PCEXTRACTCORNER PCEXTRACTEDGE PCEXTRACTSECTION POINTCLOUDCOLORMAP POINTCLOUDCROP POINTCLOUDUNCROP POINTCLOUDCROPSTATE Command does not support But supports point cloud
	Render	Apply lighting and materials to give 3D models a realistic appearance to help communicate your designs.	✗	This function is available, but not as good as AutoCAD.

	Remote service render	Render 3D models online without consuming processing power or disk space on your local computer.	✗	
	Section plane	Create section planes using solids, surfaces, meshes, or regions to display cross-sectional views.	✓	
	Solid, surface and mesh modeling	Create realistic 3D models of your designs using a combination of solid, surface, and mesh modeling tools.	✓	
	Visual Styles	Apply visual styles to control the display of edges, lighting, and shading of 3D models.	✓	
Collaboration	DGN Files	Share and reuse data in DGN files by importing, exporting, or attaching as an underlay.	✗	DGNEXPORT Support import but not export
	DWG Comparison	Compare two versions of a drawing without leaving the current window.	✓	
	Geographic location and online maps	Insert geographic location information into a drawing and display a map in the drawing from an online mapping service.	✗	
	Referencing and importing models	Attach Navisworks model to your drawing as underlay, and import model from other applications.	✓	
	PDF Document	Share and reuse data in PDF files by importing, exporting, or attaching as an underlay.	✓	
	Sheet Set Manager	View, access, manage, and plot multiple drawings as drawing sets.	✓	
	Save to Web and Mobile Devices	Save drawings from your desktop to view and edit in the web and mobile apps, including external references.	✓	
	Shared View	Publish design views of your drawings in a web browser so stakeholders can review and comment on them.	✓	
	Xref Compare	Compare two versions of a drawing, including external references (Xrefs).	✓	

2.2. Basic Features Comparison

Among the 221 commonly used commands of AutoCAD 2026, the functions related to 2D drawing are basically 100% covered by GstarCAD. AutoCAD 2026 and GstarCAD 2026 also have their own unique functions that surpass each other, and they are equally matched in the comprehensiveness of drawing functions.

Commonly Used Commands in AutoCAD		GstarCAD 2026	Remark	GstarCAD 2026 Innovative
A				
A	ARC / Creates an arc	✓		ALIGNTOOL Quick Align the Objects
ADC	ADCENTER / Manages and inserts objects such as blocks, xrefs, and hatch patterns	✓		AREASUM Displays the current closed region value and area sum sequence in command line.
AA	AREA / Calculates the area and perimeter of an object or defined area	✓		AREATABLE Dimensions and exports area data
AL	ALIGN / Aligns objects with other objects in 2D and 3D space	✓		ARRANGETOOL Distributes the Objects
AP	APPLOAD / Loads application	✓		...
AR	ARRAY / Creates multiple copies of an object in an array	✓		
ARR	ACTRECORD / Starts the action recorder	✗	Action Recorder Related Functions	
ARM	ACTUSERMESSAGE / Inserts a user message into an action macro	✗		
ARU	ACTUSERINPUT / Pauses in an action macro to wait for user input	✗		
ARS	ACTSTOP / Stops the action recorder and provides the option to save the recorded actions to an action macro file	✗		
ATI	ATTIPEDIT / Changes the text content of an attribute in a block	✓		
ATT	ATTDEF / Redefines a block and updates associated attributes	✓		
ATE	ATTEDIT / Changes attribute information in a block	✓		

B				
B	BLOCK / Creates a block definition from selected objects	✓		BARCODE Creates barcodes from text
BC	BCLOSE / Close the block editor	✓		BATPURGE Cleans up redundant objects in batches
BE	BEDIT / Opens a block definition in the Block Editor	✓		...
BH	BHATCH / Fills an enclosed area or selected objects with a hatch pattern, solid fill or gradient fill	✓		
BO	BOUNDARY / Creates a region or polyline from a closed area	✓		
BR	BREAK / Breaks the selected objects between two points	✓		
BS	BSAVE / Saves the current block definition	✓		
BVS	BVSTATE / Creates, sets, or deletes the visibility state of a dynamic block.	✓		
C				
C	CIRCLE / Creates a circle	✓		CAREA Exports the area to Excel
CAM	CAMERA / Sets the camera position and target position to create and save a 3D perspective view of an object.	✗	CAMERADISPLAY CAMERAHEIGHT There are related system variables but they are not effective.	COLSS Selects all entity sets with the same color
CBAR	CONSTRAINTBAR / Toolbar-like UI element that displays the available geometric constraints on an object	✓		CHLA Transforms the wall line of the specified line
CH	PROPERTIES / Controls the properties of existing objects	✓		...
CHA	CHAMFER / Adds a chamfer to an object	✓		
CHK	CHECKSTANDARDS / Checks the current drawing for standards violations	✗	Check for standards violations	

CLI	COMMANDLINE / Displays the command line window	✓		
COL	COLOR / Sets the color of new objects	✓		
CO	COPY / Copies an object at a specified distance in a specified direction	✓		
CT	CTABLESTYLE / Sets the name of the current table style	✓		
CUBE	NAVVCUBE / Controls the visibility and display properties of the ViewCube tool	✓		
CYL	CYLINDER / Creates a solid 3D cylinder	✓		
D				
D	DIMSTYLE / Create and modify dimension styles	✓		DYJT/REGSCALE Selects a region of a drawing to be cut and copied to a new location.
DAN	DIMANGULAR / Creates an angular dimension	✓		...
DAR	DIMANGULAR / Creates an arc length dimension	✓		
DBA	Creates a linear, angular, or ordinate dimension from the baseline of the previous or selected dimension.	✓		
Dbc	DBCONNECT / Provides an interface to external database tables	✗	DBCSTATE There are related system variables but they are not effective	
DCE	DIMCENTER / Creates center marks or center lines for circles and arcs	✓		
DCO	DIMCONTINUE / Creates a dimension that begins at the extension line of the last dimension created	✓		
DCON	DIMCONSTRAINT / Applies dimensional constraints to selected objects or points on objects	✓	GstarCAD 2026 New	
DDA	DIMDISASSOCIATE / Removes associativity from selected dimensions	✓		
DDI	DIMDIAMETER / Creates a diameter dimension for a circle or arc	✓		
DED	DIMEDIT / Edits dimension text and extension lines	✓		

DI	DIST / Measures the distance and angle between two points	✓		
DIV	DIVIDE / Creates evenly spaced point objects or blocks along the length or perimeter of an object.	✓		
DJL	DIMJOGLINE / Adds or removes a jog line on a linear or aligned dimension	✓		
DJO	DIMJOGGED / Creates jog dimensions for circles and arcs	✓		
DL	DATALINK / Displays the Data Link dialog box	✓		
DLU	DATALINKUPDATE / Updates data to or from an established external data link	✓		
DO	DONUT / Creates a solid circle or wider ring	✓		
DOR	DIMORDINATE / Creates a coordinate dimension	✓		
DOV	DIMOVERRIDE / Controls overrides of system variables used in selected dimensions.	✓		
DR	DRAWORDER / Changes the draw order of images and other objects	✓		
DRA	DIMRADIUS / Creates a radial dimension for a circle or arc	✓		
DRE	DIMREASSOCIATE / Associates or reassociates selected dimensions to an object or point on an object	✓		
DRM	DRAWINGRECOVERY / Displays a list of drawing files that can be recovered after a program or system failure.	✓		
DS	DSETTINGS / Sets grid and snap, polar and object snap tracking, object snap modes, Dynamic Input, and Quick Properties.	✓		
DT	TEXT / Creates a single-line text object.	✓		
DV	DVIEW / Defines parallel projection or perspective views by using a camera and target.	✓		
DX	DATAEXTRACTION / Extracts drawing data and merges data from an external source to a data extraction table or external file.	✓		

E

E	ERASE / Removes objects from a drawing.	✓		ENTSS Selects similar objects
ED	DDEDIT / Edits single-line text, dimension text, attribute definitions, and feature control frames.	✓		ETT Real-time display of the final positioning of the extension effect
EL	ELLIPSE / Creates an ellipse or an elliptical arc.	✓		...
EPDF	EXPORTPDF / Exports drawing to PDF.	✓		
ER	EXTERNALREFERENCES / Opens the External References palette.	✓		
EX	EXTEND / Extends objects to meet the edges of other objects.	✓		
EXIT	QUIT / Exits the program.	✓		
EXP	EXPORT / Saves the objects in a drawing to a different file format.	✓		
EXT	EXTRUDE / Extends the dimensions of a 2D object or 3D face into 3D space.	✓		
F				
F	FILLET / Rounds and fillets the edges of objects.	✓		FREESCALE Scales the graphic in different proportions
FI	FILTER / Creates a list of requirements that an object must meet to be included in a selection set.	✓		...
FS	FSMODE / Creates a selection set of all objects that touch the selected object.	✓		
FSHOT	FLATSHOT / Creates a 2D representation of all 3D objects based on the current view.	✓		
G				
G	GROUP / Creates and manages saved sets of objects called groups.	✓		GC_BOOLOP 2D Boolean operations
GCON	GEOCONSTRAINT / Applies or persists geometric relationships between objects or points on objects.	✓		...
GD	GRADIENT / Fills an enclosed area or selected objects with a gradient fill.	✓		

GEO	GEOGRAPHICLOCATION / Specifies the geographic location information for a drawing file.	×	Geographic location information GIS module	ArcGIS for GstarCAD is supported.
H				
H	HATCH / Fills an enclosed area or selected objects with a hatch pattern, solid fill, or gradient fill.	✓		HCGBGE Draws a table consisting of lines
HE	HATCHEDIT / Modifies an existing hatch or fill.	✓		...
HI	HIDE / Regenerates a 3D wireframe model with hidden lines suppressed.	✓		
I				
I	INSERT / Inserts a block or drawing into the current drawing.	✓		IFCIMPORT Imports IFC files
IAD	IMAGEADJUST / Controls the image display of the brightness, contrast, and fade values of images.	✓		IGSEXPORT Exports IGS/IGES files
IAT	IMAGEATTACH / Inserts a reference to an image file.	✓		...
ICL	IMAGECLIP / Crops the display of a selected image to a specified boundary.	✓		
ID	ID / Displays the UCS coordinate values of a specified location.	✓		
IM	IMAGE / Displays the External References palette.	✓		
IMP	IMPORT / Imports files of different formats into the current drawing.	✓		
IN	INTERSECT / Creates a 3D solid, surface, or 2D region from overlapping solids, surfaces, or regions.	✓		
INF	INTERFERE / Creates a temporary 3D solid from the interferences between two sets of selected 3D solids.	✓		
IO	INSERTOBJ / Inserts a linked or embedded object.	✓		
J				
J	JOIN / Joins similar objects to form a single, unbroken object.	✓		
JOG	DIMJOGGED / Creates jogged dimensions for circles and arcs.	✓		

L				
L	LINE / Creates straight line segments.	✓		LAYDRAWORDER Adjusts the order of graphics by layer
LA	LAYER / Manages layers and layer properties.	✓		LAYLCKOTHER Locks other layers
LAS	LAYERSTATE / Saves, restores, and manages named layer states.	✓		
LE	QLEADER / Creates a leader and leader annotation.	✓		
LEN	LENGTHEN / Changes the length of objects and the included angle of arcs.	✓		
LI	LIST / Displays property data for selected objects.	✓		
LO	LAYOUT / Creates and modifies drawing layout tabs.	✓		
LT	LINETYPE / Loads, sets, and modifies linetypes.	✓		
LTS	LTSCALE / Changes the scale factor of linetypes for all objects in a drawing.	✓		
LW	LWEIGHT / Sets the current lineweight, lineweight display options, and lineweight units.	✓		
M				
M	MOVE / Moves objects a specified distance in a specified direction.	✓		MAGNIFIER Zooms in on a local area
MA	MATCHPROP / Applies the properties of a selected object to other objects.	✓		M2LVPORT Positions the viewport in layout space
ME	MEASURE / Creates point objects or blocks at measured intervals along the length or perimeter of an object.	✓		...
MEA	MEASUREGEOM / Measures the distance, radius, angle, area, and volume of selected objects or sequence of points.	✓		
MI	MIRROR / Creates a mirrored copy of selected objects.	✓		
ML	MLINE / Creates multiple parallel lines..	✓		

MLA	MLEADERALIGN / Aligns and spaces selected multileader objects.	✓		
MLC	MLEADERCOLLECT / Organizes selected multileaders that contain blocks into rows or columns, and displays the result with a single leader.	✓		
MLD	MLEADER / Creates a multileader object.	✓		
MLE	MLEADEREDIT / Adds leader lines to, or removes leader lines from, a multileader object.	✓		
MLS	MLEADERSTYLE / Creates and modifies multileader styles.	✓		
MO	PROPERTIES / Controls properties of existing objects.	✓		
MORE	MESHSMOOTHMORE / Increases the level of smoothness for mesh objects by one level.	✗	Mesh Smoothness Object	
MS	MSPACE / Switches from paper space to a model space viewport.	✓		
MSM	MARKUP / Opens the Markup Set Manager.	✗	Mark input and labeling assistance	
MT	MTEXT / Creates a multiline text object.	✓		
MV	MVIEW / Creates and controls layout viewports.	✓		
N				
NORTH	GEOGRAPHICLOCATION / Specifies the geographic location information for a drawing file.	✗	Geographic location information GIS module	
NSHOT	NEWSHOT / Creates a named view with motion that is played back when viewed with ShowMotion.	✗	VIEWCUBE module advanced function	
NVIEW	NEWVIEW / Creates a named view with no motion.	✗		
0				
0	OFFSET / Creates concentric circles, parallel lines, and parallel curves.	✓		OCMP Compares the selected graphic in a drawing or compare the graphic between two drawings

OFFSETSRF	SURFFOFFSET/ Creates a parallel surface a specified distance from the original surface.	✓		OUTLINE Generates the outer boundary of the specified graphic
OP	OPTIONS / Customizes the program settings.	✓		...
ORBIT / 3DO	3DORBIT / Rotates the view in 3D space, but constrained to horizontal and vertical orbit only.	✓		
OS	OSNAP / Sets running object snap modes.	✓		
P				
P	PAN / Adds a parameter with grips to a dynamic block definition.	✓		PCHC Changes the color of the selected object or layer
PA	PASTESPEC / Pastes objects from the Clipboard into the current drawing and controls the format of the data.	✓		PICKMIRRDRAWAXIS Picks the axis of symmetry
PAR	PARAMETERS / Controls the associative parameters used in the drawing.	✓	GstarCAD 2026 New	...
PARAM	BPARAMETER / Adds a parameter with grips to a dynamic block definition.	✓		
PATCH	SURFPATCH / Creates a new surface by fitting a cap over a surface edge that forms a closed loop.	✗	3D surface related	
PCATTACH	POINTCLOUDATTACH / Inserts an indexed point cloud file into the current drawing.	✓		
PE	PEDIT / Edits polylines and 3D polygon meshes.	✓		
PL	PLINE / Creates a 2D polyline.	✓		
PO	POINT / Creates a point object.	✓		
POFF	HIDEPALETTES / Hides currently displayed palettes (including the command line).	✗	SHOWPALETTESTATE There are related system variables but they are not effective	
POL	POLYGON / Creates an equilateral closed polyline.	✓		

PON	SHOWPALETTES / Restores the display of hidden palettes.	✗	SHOWPALETTESTATE There are related system variables but they are not effective	
PR	PROPERTIES / Displays Properties palette.	✓		
PRE	PREVIEW / Displays the drawing as it will be plotted.	✓		
PRINT	PLOT / Plots a drawing to a plotter, printer, or file.	✓		
PS	PSPACE / Switches from a model space viewport to paper space.	✓		
PSOLID	POLYSOLID / Creates a 3D wall-like polysolid.	✓		
PU	PURGE / Removes unused items, such as block definitions and layers, from the drawing.	✓		
PYR	PYRAMID / Creates a 3D solid pyramid.	✓		
Q				
QC	QUICKCALC / Opens the QuickCalc calculator.	✓		QRCODE Generates QR code
QCUI	QUICKCUI / Displays the Customize User Interface Editor in a collapsed state.	✓		...
QP	QUICKPROPERTIES / Displays open drawings and layouts in a drawing in preview images.	✓		
QSAVE	QSAVE / Saves the current drawing.	✓		
QVD	QVDRAWING / Displays open drawings and layouts in a drawing using preview images.	✗	QVDRAWINGPIN There are related system variables but they are not effective	
QVDC	QVDRAWINGCLOSE / Closes preview images of open drawings and layouts in a drawing.	✗	QVDRAWINGPIN There are related system variables but they are not effective	
QVL	QVLAYOUT / Displays preview images of model space and layouts in a drawing.	✗	QVLAYOUTPIN There are related system variables but they are not effective	

QVLC	QVLAYOUTCLOSE / Closes preview images of model space and layouts in the current drawing.	×	QVLAYOUTPIN There are related system variables but they are not effective	
R				
R	REDRAW / Refreshes the display in the current viewport.	✓		RTCUR Real-time cursor rotation
RA	REDRAWALL / Refreshes the display in all viewports.	✓		REGSCALE Selects the area in the picture to capture as a large sample
RC	RENDERCROP / Renders a specified rectangular area, called a crop window, within a viewport.	×	3D render module	RVTIMPORT Imports Revit Files
RE	REGEN / Regenerates the entire drawing from the current viewport.	✓		...
REA	REGENALL / Regenerates the drawing and refreshes all viewports.	✓		
REC	RECTANG / Creates a rectangular polyline.	✓		
REG	REGION / Converts an object that encloses an area into a region object.	✓		
REN	RENAME / Changes the names assigned to items such as layers and dimension styles.	✓		
REV	REVOLVE / Creates a 3D solid or surface by sweeping a 2D object around an axis.	✓		
RO	ROTATE / Rotates objects around a base point.	✓		
RP	RENDERPRESETS / Specifies render presets, reusable render parameters, for render an image.	×	3D render module	
RR	RENDER / Creates a photorealistic or realistically shaded image of a 3D solid or surface model.	✓		
R W	RENDERWIN / Displays the Render window without starting a render operation.	×	3D render module	
S				

S	STRETCH / Stretches objects crossed by a selection window or polygon.	✓		SASCL Sets the drawing scale and automatically adapt
SC	SCALE / Enlarges or reduces selected objects, keeping the proportions of the object the same after scaling.	✓		SETLAYER Makes the object layer the current layer
SCR	SCRIPT / Executes a sequence of commands from a script file.	✓		SPLINE2LINE Fitters a spline curve to multiple straight line segments
SEC	SECTION / Uses the intersection of a plane and solids, surfaces, or mesh to create a region.	✓		...
SET	SETVAR / Lists or changes the values of system variables.	✓		
SHA	SHADEMODE / Starts the VSCURRENT command..	✓		
SL	SLICE / Creates new 3D solids and surfaces by slicing, or dividing, existing objects.	✓		
SN	SNAP / Restricts cursor movement to specified intervals.	✓		
SO	SOLID / Creates solid-filled triangles and quadrilaterals.	✓		
SP	SPELL / Checks spelling in a drawing.	✓		
SPE	SPLINEDIT / Edits a spline or splinefit polyline.	✓		
SPL	SPLINE / Creates a smooth curve that passes through or near specified points.	✓		
SPLANE	SECTIONPLANE / Creates a section object that acts as a cutting plane through 3D objects.	✓		
SPLAY	SEQUENCEPLAY / Plays named views in one category.	✓		
SPLIT	MESHSPLOT / Splits a mesh face into two faces.	✗		
SSM	SHEETSET / Opens the Sheet Set Manager	✓		
ST	STYLE / Creates, modifies, or specifies text styles.	✓		

STA	STANDARDS / Manages the association of standards files with drawings.	×	Standards Module	Check	
SU	SUBTRACT / Combines selected 3D solids, surfaces, or 2D regions by subtraction.	✓			
T					
T	TEXTALIGN / Aligns multiple text objects vertically, horizontally, or obliquely.	✓			TXTHEI Modifies string height
TA	TABLE / Creates an empty table object.	✓			...
TB	TEXTEDIT / Edits a dimensional constraint, dimension, or text object.	✓			
TED	THICKNESS / Sets the default 3D thickness property when creating 2D geometric objects.	✓			
TH	TILEMODE / Controls whether paper space can be accessed.	✓			
TI	TOOLBAR / Displays/hides, and customizes toolbars.	✓			
TOL	TOLERANCE / Creates geometric tolerances contained in a feature control frame.	✓			
TOR	TORUS / Creates a donut-shaped 3D solid.	✓			
TP	TOOLPALETTES / Opens the Tool Palettes window.	✓			
TR	TRIM / Trims objects to meet the edges of other objects.	✓			
TS	TABLESTYLE / Creates, modifies, or specifies table styles.	✓			
U					
UC	UCSMAN / Manages defined user coordinate systems.	✓			UNLOCK Restores object lock status
UN	UNITS / Controls coordinate and angle display formats and precision.	✓			...
UNHIDE / UNISOLATE	UNISOLATEOBJECTS / Displays objects previously hidden with the ISOLATEOBJECTS or HIDEOBJECTS command.	✓			
UNI	UNION / Unions two solid or two region objects.	✓			
V					

V	VIEW / Saves and restores named views, camera views, layout views, and preset views.	✓		
VGO	VIEWGO / Restores a named view.	✗	VIEWCUBE module advanced function	
VP	DDVPOINT / Sets the 3D viewing direction.	✓		
VPLAY	VIEWPLAY / Plays the animation associated to a named view.	✗	VIEWCUBE module advanced function	
VS	VSCURRENT / Sets the visual style in the current viewport.	✓		
VSM	VISUALSTYLES / Creates and modifies visual styles and applies a visual style to a viewport.	✓		
W				
W	WBLOCK / Writes objects or a block to a new drawing file.	✓		WZDD/TXTBREAK Breaks text at specified position
WE	WEDGE / Creates a 3D solid wedge.	✓		...
WHEEL	NAVSWHEEL / Displays a wheel that contains a collection of view navigation tools.	✗	2D navigation control panel	
X				
X	EXPLODE / Breaks a compound object into its component objects.	✓		XEDGES Creates a wireframe by extracting edges from a 3D solid or surface
XA	XATTACH / Inserts a DWG file as an external reference (xref).	✓		...
XB	XBIND / Binds one or more definitions of named objects in an xref to the current drawing.	✓		
XC	XCLIP / Crops the display of a selected external reference or block reference to a specified boundary.	✓		
XL	XLIN / Creates a line of infinite length.	✓		
XR	XREF / Starts the EXTERNALREFERENCES command.	✓		
Z				

Z	ZOOM / Increases or decreases the magnification of the view in the current viewport.	✓		ZC/SUPERAXON Converts a plan view to an axonometric view
ZEBRA	ANALYSISZEBRA / Projects stripes onto a 3D model to analyze surface continuity.	✗		...
ZIP	ETRANSMIT / Creates a Self-Extracting or Zipped Transmittal Package.	✓		

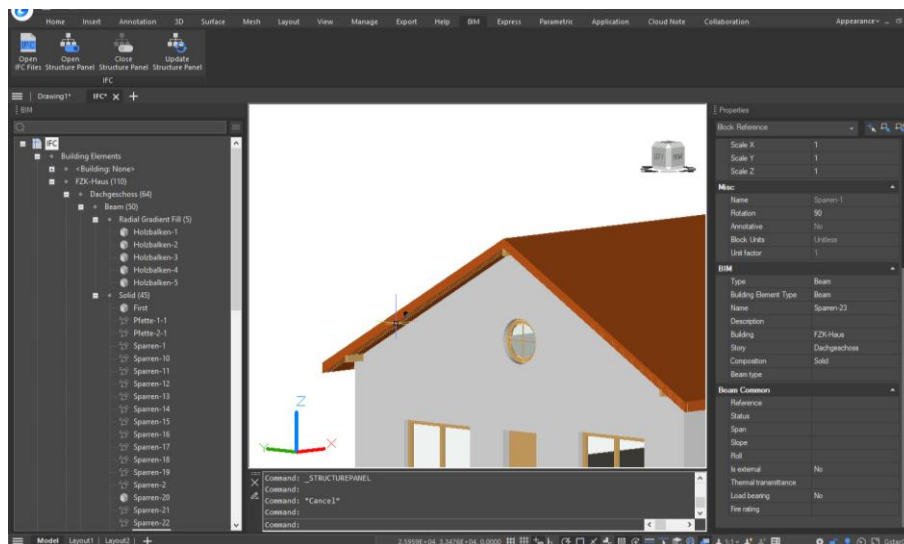
2.3. GstarCAD Special Features

- IFC standard data conversion

GstarCAD Supports importing and parsing BIM information models in IFC format through the IFCIMPORT command and forming a tree-structured panel to display a single object.

View the BIM information of the model through the property panel.

The model information is retrieved and managed through the BIM structure panel, and the single model structure is displayed in the form of a tree structure panel.

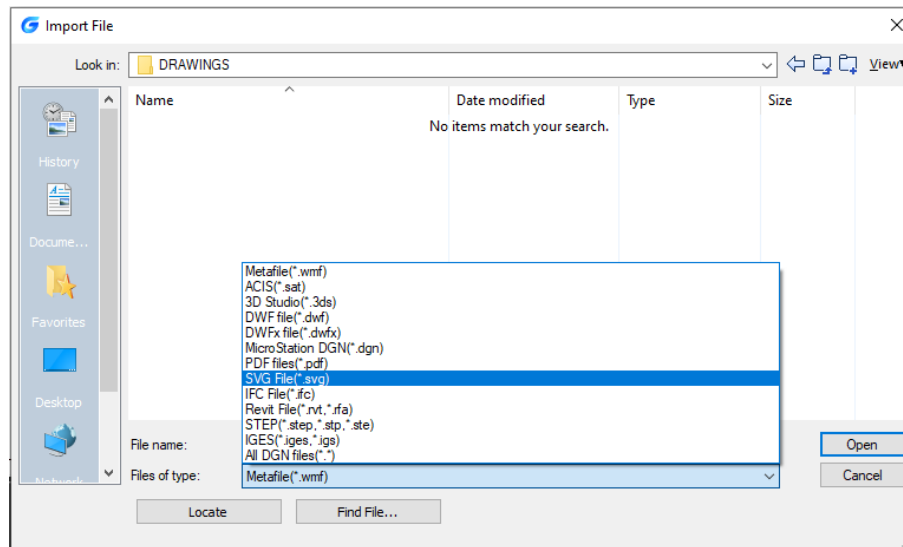


- SVG Import and Export

SVG Import:

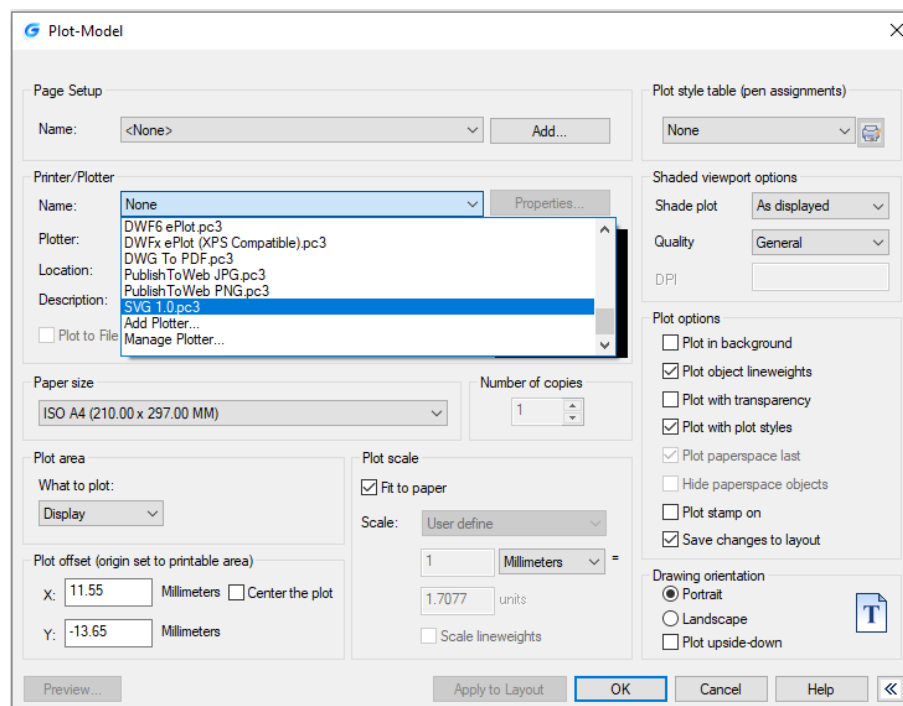
This function supports the import of SVG files. After executing the command, the "Import File" dialog box will be displayed, from which you can select the SVG file to be imported and import its data into the current drawing. The imported SVG graphic is a block

and can be edited in the block editor or edited directly after decomposition. Objects such as straight lines, polylines, polygons, circles, ellipses, texts, and image fills can be correctly imported.



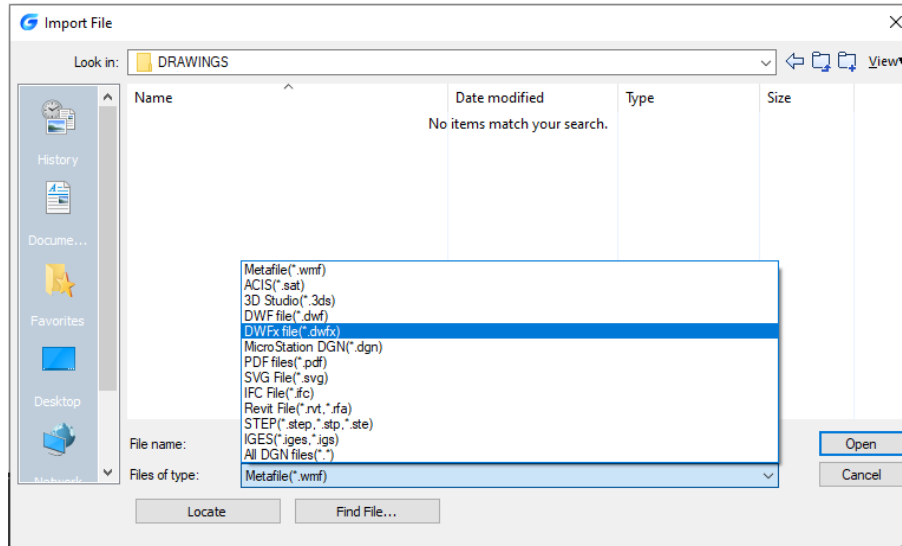
SVG Export:

Execute the PLOT/EXPORT command to export the current graphic file to the specified SVG file format. SVG file is a two-dimensional vector graphic format that takes up little space, is highly compressible, and can be printed with high quality at any resolution. Most objects in the graphic can be exported to SVG files, except for images and gradient hatch. The exported SVG file can be accurately displayed by third-party tools.



- DWF Import

Import the DWF/DWFX file into the current drawing. After importing, it becomes a block, which can be exploded into regular objects for editing. After executing the command, the "Select DWF File" dialog is displayed.



- Linux System Support

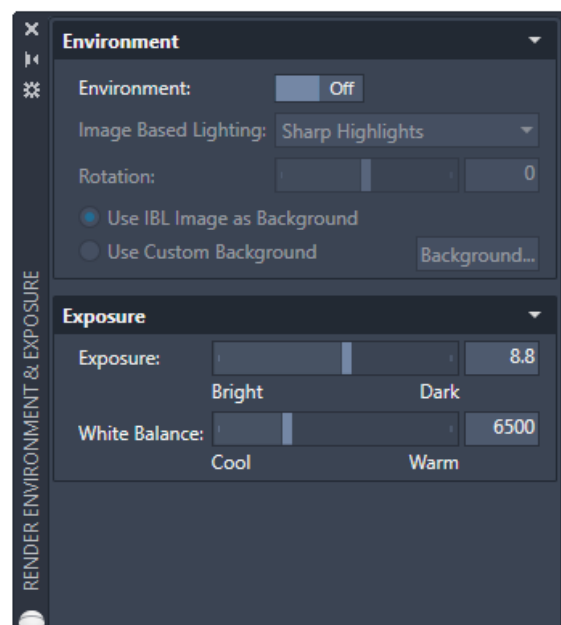
GstarCAD supports Linux system and GstarCAD 2026 for Linux version will be release soon. AutoCAD doesn't support Linux system.

2.4. AutoCAD Special Features

- 3D Render

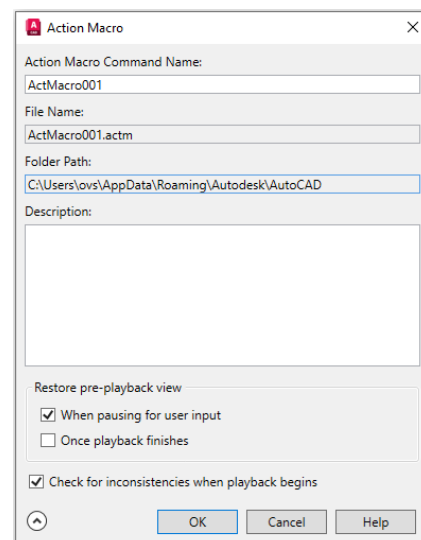
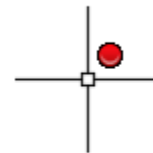
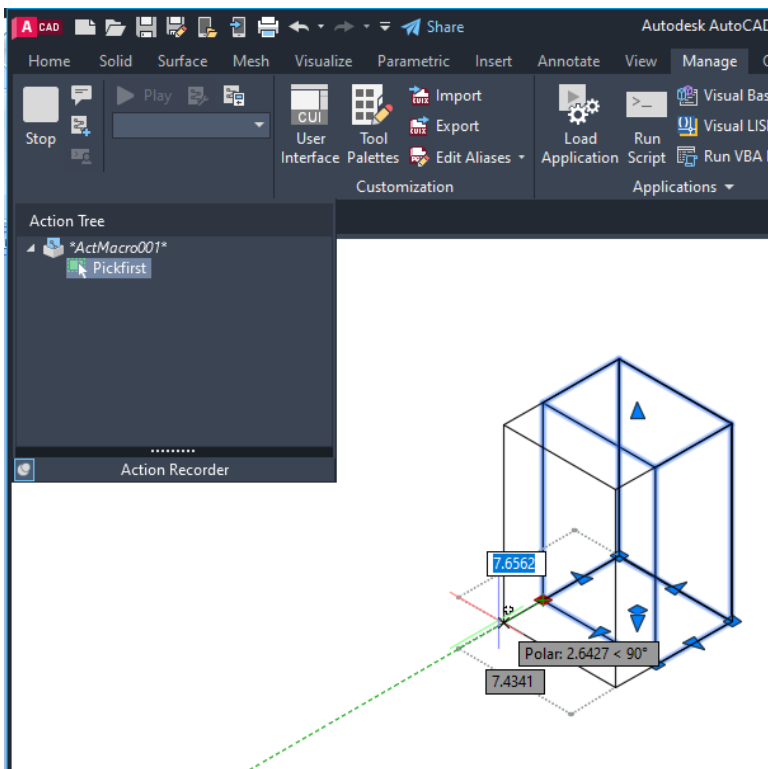
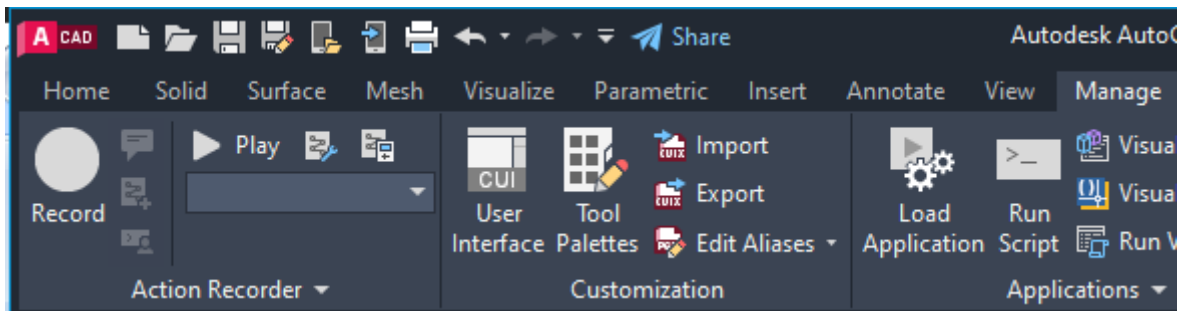
Use the render to calculate the appearance of materials attached to objects in the scene. Lighting and shadows are calculated based on the light sources placed in the scene. You can adjust the render environment and exposure settings to control the final rendered image.

Render example with render environment and exposure settings tabs:



- **Action Recorder**

Use the ACTRECORD / ACTSTOP command to turn the action recorder on/off or click the Record/Stop button in the Ribbon Manage - Action Recorder options. When recording starts, a red circle will appear next to the cross cursor to inform you that the Action Recorder is actively listening for actions. After recording is completed, an action tree is generated based on the recorded actions.

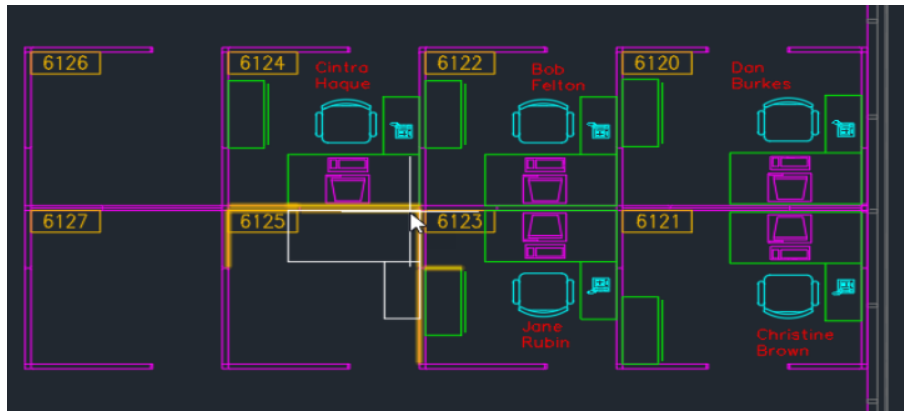


- **Smart Blocks: Placement**

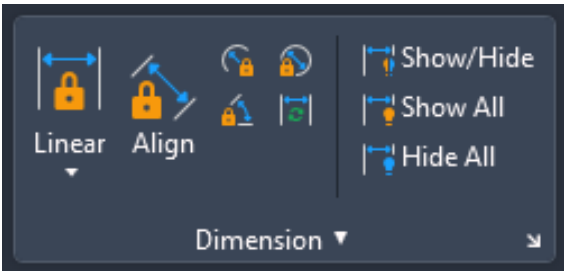
The new Smart Block feature provides placement suggestions based on where you have previously placed the block in the drawing.

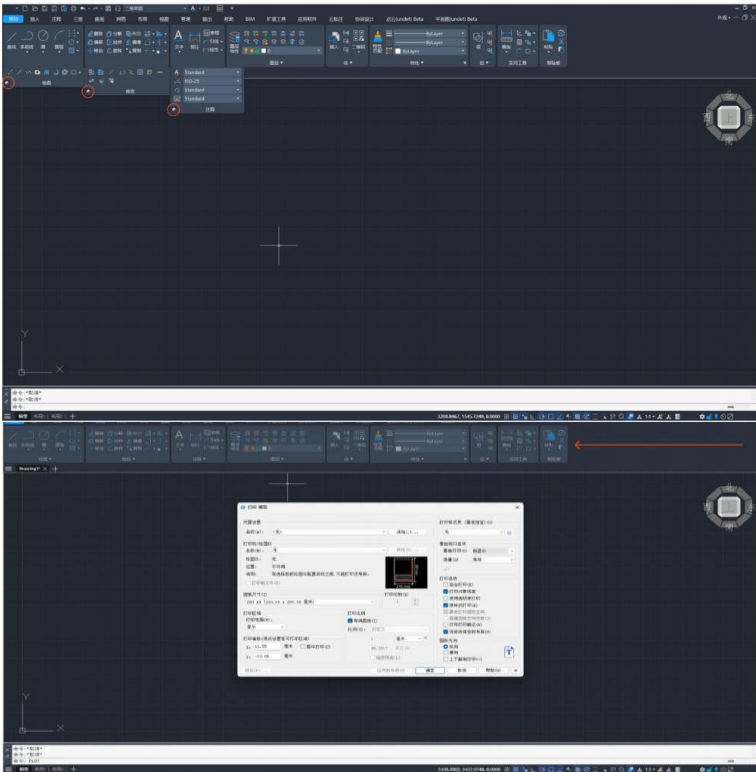
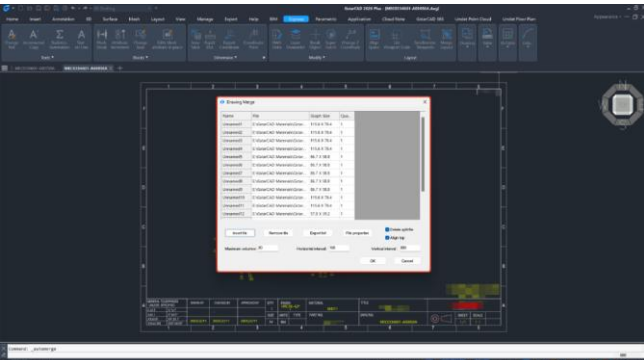
With its advanced features, Smart Blocks simplifies the creation, management, and use of blocks. By using intelligence algorithms to analyze the graphic and identify hatch patterns, Smart Blocks provides a range of intelligent features .

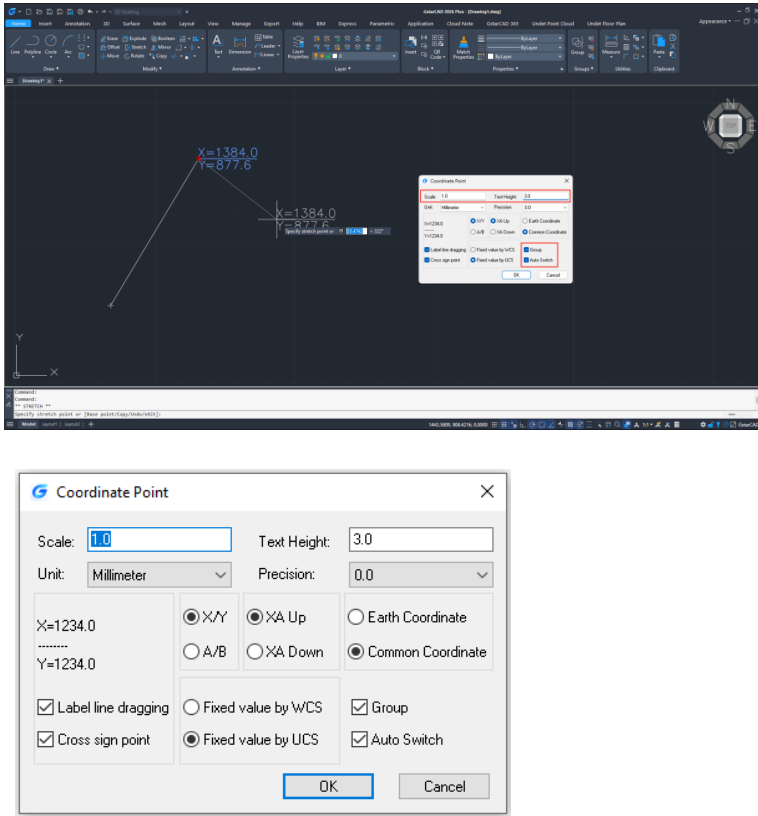
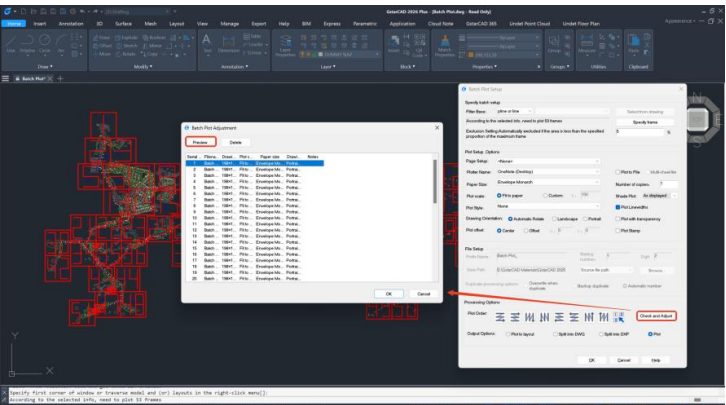
Features include automatic block placement, block replacement using similar block suggestions, object detection, and block conversion.

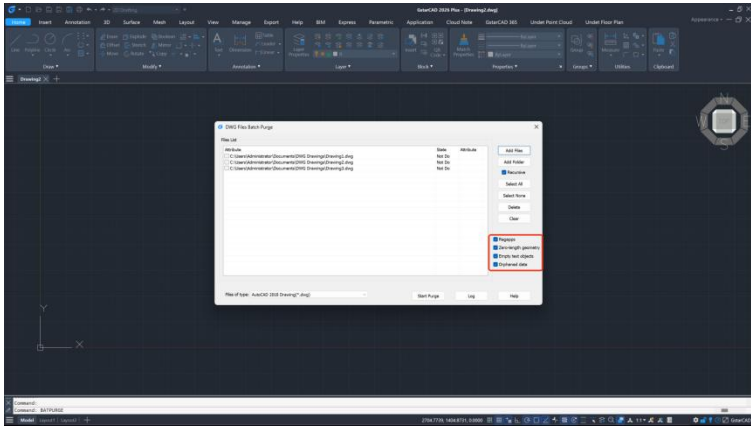
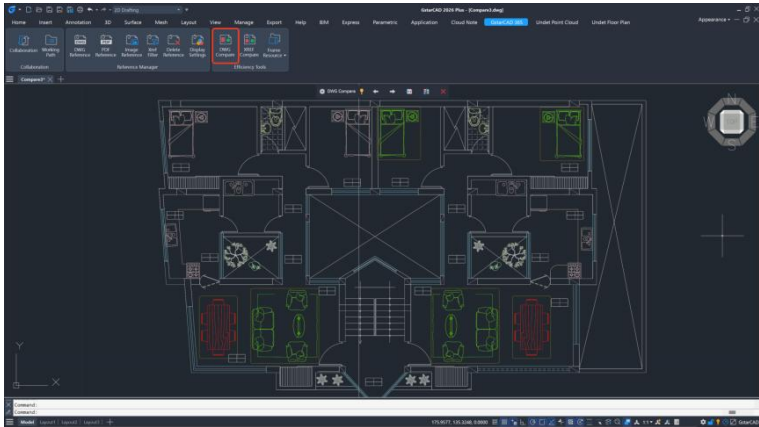
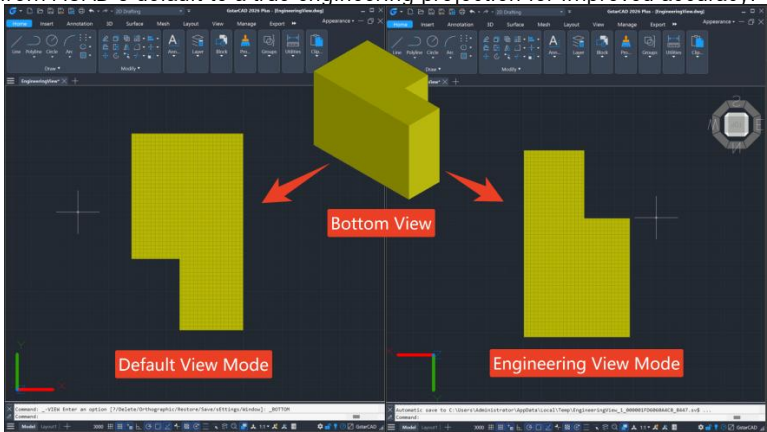


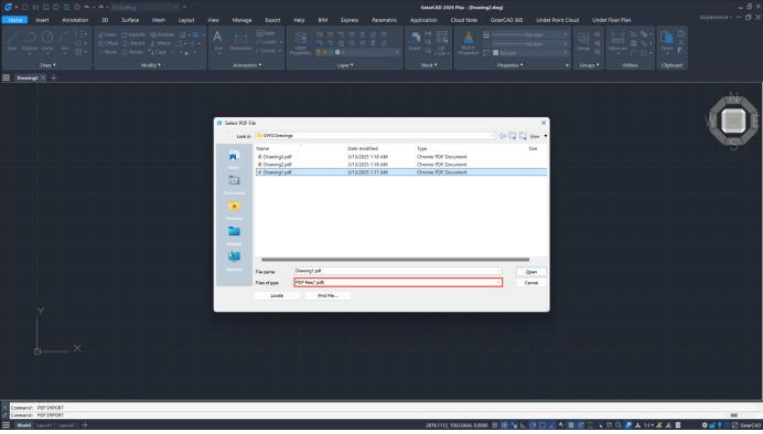
2.5. GstarCAD 2026 New Features

New Features/Improvements		ACAD Support	Comparison
Performance Improvements	Multi-reference drawing opening(without clipping) optimization	/	/
	EXTEND command (Fence/Crossing) optimization		
	TRIM command (Fence/Crossing) optimization		
	Clipped blocks & Xrefs optimization		
	Block editing preview optimization		
	MIRROR operation optimization		
	Block creation/explosion optimization		
	Hatch performance optimization		
Parametric Constraints		✓	The functions are the same
Interface Improvements	Visual Refresh: New visual styles for dark and light themes	/	The functions are basically the same
	New SVG Icons: Redesigned color schemes and proportions, with 1500+ icons redrawn in SVG for clear and smooth display at any scale.		
	Application Access Menu:		

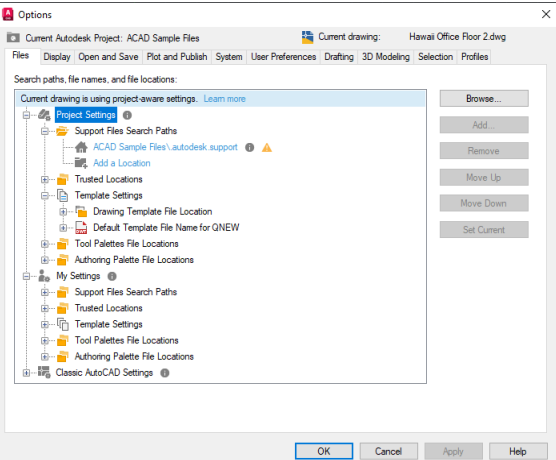
	<p>Optimize the main menu button display effect</p> <p>Support click to print, send to first level menu directly</p> <p>Optimize recent document display logic</p>		
	<p>Ribbon</p> <p>Added fixed display of expanded sub-panels</p> <p>Optimize the disabling effect of ribbon</p> <p>Optimize the print preview panel</p> 		
	<p>Status Bar :optimize selection effect</p>		
Drawing Merge	<p>You can now batch analyze, split, and merge drawings via Xrefs with customizable layout settings, view entity properties, and export the drawing list to a .lst file.</p> 	×	/

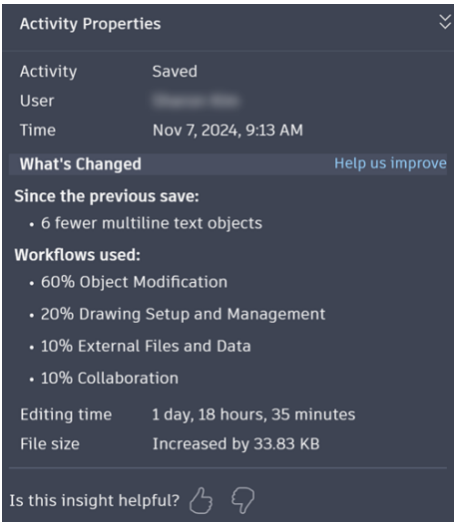
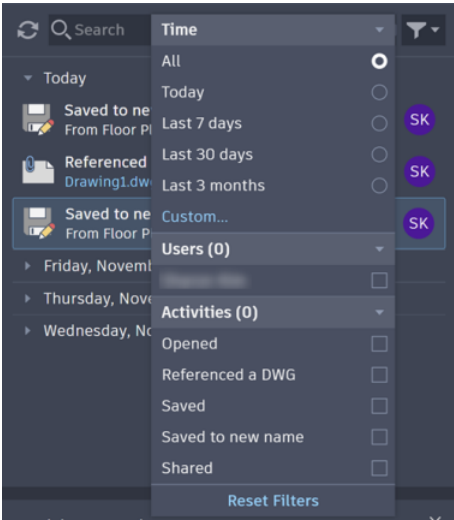
<p>Dimension coordinate(DIMCORD)</p>	<p>The DIMCORD command now features leader lines instead of polylines, so moving a text block automatically carries its leader with it, making label placement more intuitive. The updated “Parameters” dialog also lets you adjust scale and text height, and includes new Group and Auto Switch options for greater flexibility and ease of use.</p> 	<p>×</p>	<p>/</p>
<p>Batch Plot Improvement</p>	<p>You can now sequentially preview frame records: click any record to start, press the spacebar to advance (with the active frame highlighted), and press space again on the last frame to exit preview and return to the Adjustment dialog box.</p> 	<p>×</p>	<p>/</p>

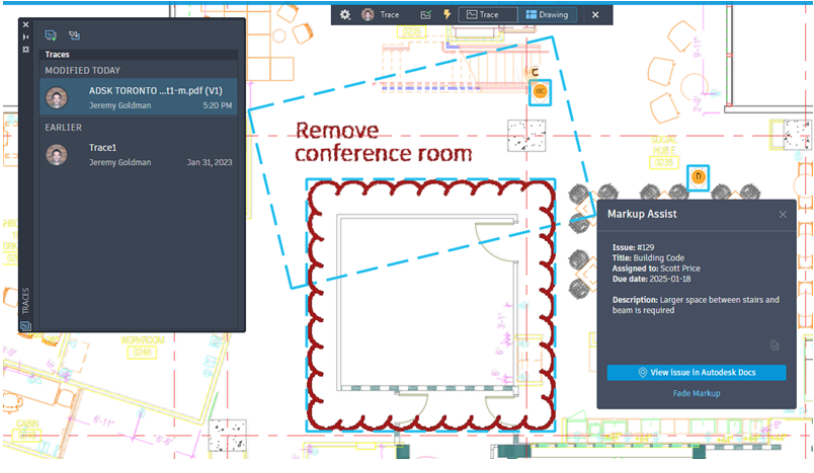
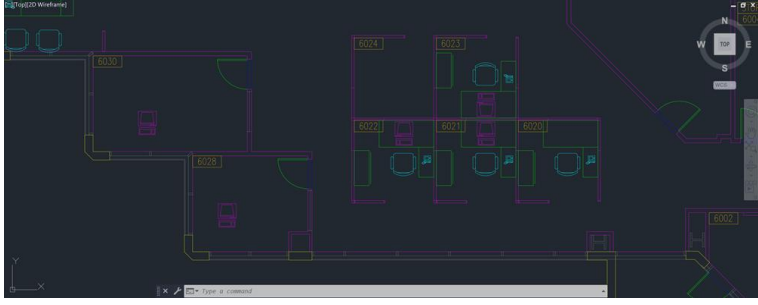
<p>BATPURGE Improvement</p>	<p>The Batch Purge tool now supports cleaning up registered applications, zero-length geometries, empty text objects, and orphaned drawing data.</p> 	<p>✗</p>	<p>/</p>
<p>DWG Compare</p>	<p>This feature compares a specified drawing with the current drawing, using revision clouds to highlight the differences. It allows users to configure comparison settings, import objects from the compared drawing, and export and bind the results into new snapshot drawings for future reference.</p> 	<p>✓</p>	<p>The functions are basically the same</p>
<p>Engineering Projection (ENGINEERINGVIEWMODE)</p>	<p>You can now use the ENGINEERINGVIEWMODE variable to switch the bottom view from ACAD's default to a true engineering projection for improved accuracy.</p> 	<p>✗</p>	<p>/</p>

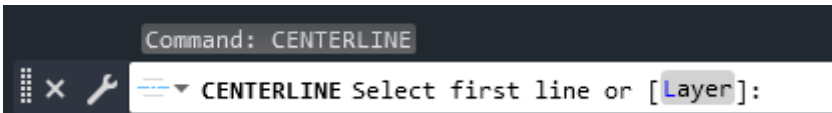
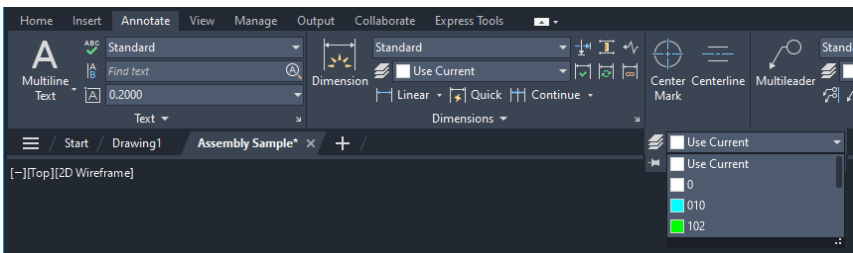
PDF Import Improvement	<p>The PDF import engine has been upgraded to the modern, actively maintained PDFium library—boosting import speed, enhancing raster image rendering (transparency, clarity, color accuracy), improving text recognition and decoding (same-line text recognized as MText for easier editing), and delivering crisper hatch displays.</p> 	/	The functions are basically the same
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2.6. AutoCAD 2026 New Features

New Features/Improvements	Function Description	GstarCAD 2026 support	Comparison
Support files for connections	<p>Connected Support Files allow AutoCAD to locate dependencies, such as fonts, plot styles, templates, and other support files based on the configuration defined for an Autodesk Docs project. Connected support files are project-aware and linked to the Autodesk Docs project they belong to. AutoCAD finds the necessary support files for drawings in an Autodesk Docs project without requiring configuration for each AutoCAD installation.</p> 	×	/

Activity Insights	<p>When you click a Saved activity tile in the Activity Insights palette, you'll now see the What's Changed insight in the Activity Properties panel.</p> <p>This insight provides a high-level summary of changes made during each edit session. This can help you know what happened since you last worked in the drawing and continue where you left off. The What's Changed insight is tied to the drawing, not to individual users, so all AutoCAD collaborators working on the drawing can create and view the same insights.</p>  <p>AutoCAD Architecture and AutoCAD MEP Renovation Plan Changed Event</p> <p>In AutoCAD Architecture and MEP 2026 toolsets, the Activity Insights captures activities related to renovation mode and provides detailed information for selected activities.</p>	✗	/
Search and Filter	<p>We've simplified our search and filter bars for ease of use. Now, you can filter activities by time, users, and specific activities with one button.</p>  <p>You can also access filters easily by right-clicking any activity. This action allows you to filter by the user who did the activity, or filter by the same type of activity.</p>	✗	/

<p>Markup Import & Markup Assist</p>	<p>Improvements were made to Markup Import and Markup Assist, namely when importing markups from Autodesk Docs to AutoCAD, making it easier for drafters to incorporate revisions.</p>  <p>Using markups with Autodesk Docs, Markup Assist can now detect markups on a PDF that weren't created in Autodesk Docs</p> <p>In the previous release, once a PDF was uploaded to Autodesk Docs, any existing markups on the PDF (for example, markups created in Adobe or with another markup software) could not be detected by Markup Assist, and instead were only visible as part of the background image that was overlaid in the Trace workspace. In this release, Markup Assist can now detect these types of markups.</p> <p>View Autodesk Docs Issues in AutoCAD</p> <p>Issues created and published on a PDF markup in Autodesk Docs can now be viewed in AutoCAD.</p>	<p>✗</p>	<p>/</p>
<p>Smart Blocks: Search and Convert</p>	<p>In addition to identical blocks, this feature now finds text variations to further streamline repetitive tasks in AutoCAD.</p> <p>BSEARCH, formerly known as BCONVERT, finds all instances of the same geometry in a drawing for efficient block conversion.</p> <p>With this release, Search and Convert also finds text variations to convert into block attributes. This new capability is helpful for classifying repetitive but variable types of text, such as hotel room numbers or room names.</p> 	<p>✗</p>	<p>/</p>

	<p>Once you decide to convert matching instances to a block, you'll see the preview thumbnail.</p> <p>Now, you can easily see the selected object and text variation.</p> <p>Along with converting matching instances to a block, you can then specify attribute tags for text variations by clicking Define attribute tags</p>		
Smart Blocks: Detect and Convert	<p>Improved detection capability</p> <p>BDETECT, previously known as DETECT, uses machine learning to identify and group similar objects in a drawing for easy block conversion.</p>	×	/
Added Layer Option to CENTERLINE and CENTERMARK	<p>The value of the CENTERLAYER system variable can be changed:</p> <p>At the Command prompt, using the new Layer option of the CENTERLINE and CENTERMARK commands.</p>  <p>On the ribbon, Annotate tab > Centerlines panel, using the Layer control.</p> 	×	/
Additional enhancements	<p>GDI Plot Enhancement: Improve compatibility with Windows system printers, handling custom configuration settings more effectively.</p> <p>GPU Text: The selection effect of GPU text has been enhanced to improve display quality. Use the</p> <p>Changes to the FASTSHADEDMODE System Variable: Two new visual styles with FASTSHADEDMODE support, Hidden and Conceptual.</p> <p>Performance Improvements: Raster images now load asynchronously in the background during the opening of a drawing file.</p> <p>Customer Satisfaction Survey: When you close AutoCAD, a customer satisfaction survey displays.</p>	×	/

The new commands and system variables of AutoCAD 2026 are as follows:

New Commands	Description	AutoCAD 2026	AutoCAD LT 2026
BDETECT	Displays the Detect palette where you can start object detection and manage the objects that are eligible for conversion.	✓	✗
- BSEARCH	At the Command prompt, converts the selected entities and identical instances into blocks.	✓	✓
BSEARCH	Displays the Convert dialog box, which provides options to convert selected entities and identical instances into blocks.	✓	✓
IMAGEASYNCWAIT	Ensures that raster images being loaded in the background during file opening are complete before proceeding.	✓	✓

New System Variables	Description	AutoCAD 2026	AutoCAD LT 2026
BSEARCHINCLUDEEXISTINGBLOCKS	Controls whether existing block instances are selected by BSEARCH command by default. Users can still make adjustments to the selection during the review process.	✓	✓
IMAGEASYNC	Controls whether images are asynchronous loaded in the background during the opening of a drawing file.	✓	✓
MAXINTERSECTIONCURVEPOINTS	Controls the upper limit of the number of control points or vertices that splines and polylines can include in the intersection calculations.	✓	✓
PROJECTAWARE	Informs the user or developer of the project path state of the current drawing.	✓	✓
TEXTTOATTRIBUTE	In the BSEARCH command, if text objects are selected, controls whether text variations will be searched for conversion into block attributes.	✓	✓

3. Performance Comparison

3.1. Test Environment

Hardware Information	
model	Testing Machine
operating system	/
processor	12th Gen Intel(R) Core (TM) i5-12500
Memory	16 GB
Graphics	/
Software Information	
AutoCAD 2026	31.1.60.0
GstarCAD 2026	Beta version (26.0.0.416)

3.2. Performance test drawing

This test uses 50 drawings and is tested on a test machine. The information of all drawings is as follows:

Number	Drawing name	Version	Size
1	1000000 ARC . dwg	AutoCAD 2018	17.311 MB
2	1000000 CIRCLE . dwg	AutoCAD 2018	25.716 MB
3	1000000 LINE-WEIGHT.dwg	AutoCAD 2018	16.555MB
4	1000000 LINE.dwg	AutoCAD 2018	16.556MB
5	1000000 PLINE-NOWID.dwg	AutoCAD 2018	47.573MB
6	1000000 PLINE-WID.dwg	AutoCAD 2018	41.399MB
7	140+ OLE.dwg	AutoCAD 2018	69.662MB
8	200 MTEXT(COMPLEX).dwg	AutoCAD 2018	12.799MB
9	200000 HATCH-ANSI31.dwg	AutoCAD 2018	35.819MB
10	200000 HATCH-SOLID-CIR.dwg	AutoCAD 2018	25.604MB
11	200000 HATCH-SOLID-REC.dwg	AutoCAD 2018	29.375MB
12	200000 SPLINE.dwg	AutoCAD 2018	32.442MB
13	27000+ 3DPLINE.dwg	AutoCAD 2018	141.177MB
14	30000 Overlap Circle X15.dwg	AutoCAD 2018	5.162MB
15	300000 Overlap Line.dwg	AutoCAD 2018	3.469MB
16	3D Test 01.dwg	AutoCAD 2018	17.631MB

17	3D Test 02.dwg	AutoCAD 2018	108.009MB
18	3D Test 03(LICHI).dwg	AutoCAD 2010	11.687MB
19	3X20000 BLOCK.dwg	AutoCAD 2018	1.323MB
20	5000 DIMENSION+ASS-REC.dwg	AutoCAD 2018	2.158MB
21	5000 DIMENSION.dwg	AutoCAD 2018	3.323MB
22	50000 BOX.dwg	AutoCAD 2018	22.516MB
23	50000 SPHERE.dwg	AutoCAD 2018	16.968MB
24	500000 MTEXT.dwg	AutoCAD 2018	21.840MB
25	500000 TEXT-SHX.dwg	AutoCAD 2018	7.804MB
26	500000 TEXT-TTF.dwg	AutoCAD 2018	9.747MB
27	6000+ 2DPLINE.dwg	AutoCAD 2018	112.029MB
28	60000 Spline.dwg	AutoCAD 2018	9.890MB
29	Aerial Plan(3D Pline + Pline).dwg	AutoCAD 2018	92.068MB
30	Converted(Solid).dwg	AutoCAD 2018	41.406MB
31	Converted(Solid + Pline + Spline).dwg	AutoCAD 2018	42.568MB
32	Floor Plan(Line).dwg	AutoCAD 2018	55.826MB
33	High Resolution Image.dwg	AutoCAD 2018	42.516KB
34	Hull(Spline + Arc).dwg	AutoCAD 2018	55.113MB
35	Kr Test Drawing 1.dwg	AutoCAD 2018	82.414MB
36	Kr Test Drawing.dwg	AutoCAD 2018	35.829MB
37	Landscape(Proxy + Block).dwg	AutoCAD 2018	72.770MB
38	Large Image + Layout.dwg	AutoCAD 2018	152.615KB
39	Layout(Viewports + Clipped Block).dwg	AutoCAD 2018	4.099MB
40	Layout(Viewports).dwg	AutoCAD 2018	85.693MB
41	Map(Common test).dwg	AutoCAD 2018	49.940MB
42	MTEXT + Spline.dwg	AutoCAD 2018	83.386MB
43	Multi Images.dwg	AutoCAD 2004	65.170KB
44	Park(Clipped Big Block).dwg	AutoCAD 2018	63.269MB
45	Pipeline plan(Layout).dwg	AutoCAD 2018	153.296MB
46	Solid Hatch.dwg	AutoCAD 2018	50.480MB
47	Structural(Anonymous Block With Text).dwg	AutoCAD 2018	46.274MB
48	Subway (Big Block + Layout).dwg	AutoCAD 2018	60.201 MB
49	Urban Plan (SOLID).dwg	AutoCAD 2018	63.764 MB
50	Workshop(Spline + LineWeight).dwg	AutoCAD 2018	80.058 MB

3.3. Performance test results

The performance test results shown in this chapter are the average test data of the above 50 drawings. From the test data, it can be seen that in the current common operations, GstarCAD 2026 is already far ahead of AutoCAD 2026.

Serial number	Test items	Command Name	Time (s)		ratio
			GstarCAD 2026	AutoCAD 2026	
1	Open the picture	OPEN	4.15	14.1	339 %
2	Save As	SAVEAS	2.9	2.38	82 %
3	Regeneration	REGEN	0.86	2.57	301 %
4	Full Image Zoom	ZOOM _100X	0.06	0.92	1408 %
5	Select All	SELECT	1.37	2.36	173 %
6	delete	ERASE	1.63	9.19	565 %
7	move	MOVE	5.94	17.15	289 %
8	Revocation	UNDO	3.6	27.09	752 %
9	recover	REDO	7.07	28.48	403 %
10	Mirror	MIRROR	5.1	20.99	411 %
11	copy	COPYCLIP	8.44	114.65	1358 %
12	Paste	PASTECLIP	15.47	35.96	232%

4. Compatibility Comparison

- **Graphics File Compatibility:** GstarCAD 2026 can fully achieve bidirectional compatibility with AutoCAD 2026 in terms of compatibility and adaptation of mainstream graphic file and drawing formats. GstarCAD has obvious advantages in IFC file import and export, IGES file export, etc., but it is still slightly insufficient in the adaptation of some unpopular formats such as Pro/ENGINEER Granite/Neutral, JT, etc. Each software has its own advantages and disadvantages.
- **Data File compatibility:** In order to ensure that the drawing display and printing effects are completely consistent with AutoCAD, GstarCAD 2026 is fully compatible with various AutoCAD data files such as font files (*.shx), line type files (*.lin), Hatch pattern files (*.pat), alias files (*.pgp), sheet set files (*.dst), slide files (*.sld), script files (*.scr), etc.
- **Secondary Development Compatibility:** The LISP VBA SDS GRX in GstarCAD is perfectly compatible with AutoCAD development interface. The tool plug-ins on AutoCAD can be easily migrated to the GstarCAD platform, and the Python secondary development interface is added to GstarCAD 2026, providing more possibilities for the software secondary development ecosystem.

Compatibility	AutoCAD 2026		GstarCAD 2026	
	Import	Export	Import	Export
DWG/DFX 2.5-2018	✓	✓	✓	✓
Template file (*.dwt)	✓	/	✓	/
Standard file (*.dws)	✓	/	✓	/
Interface files (*.cui/*.cuix)	✓	/	✓	/
Old menu files (*.mnu)	✓	/	✓	/
Sheet set files (*.dst)	✓	/	✓	/
Hatch file (*.pat)	✓	/	✓	/
Font files (*.shx)	✓	/	✓	/
Linetype files (*.lin)	✓	/	✓	/
Alias file (*.pgp)	✓	/	✓	/
Script file (*.scr)	✓	/	✓	/
Print style table files (*.ctb/*.stb)	✓	/	✓	/
IFC2x3/IFC4 (*.ifc)	✗	✗	✓	✓
Revit files (*.rvt ; *.rfa)	✗	/	✓	/
STEP(*.stp ; *.ste ; *.step)	✓	/	✓	/
IGES(*.igs *.iges)	✓	✓	✓	✗

CATIA V4(*.model ; *.session ; *.exp ; *.dlv3)	✓	/	✗	/
CATIA V5(*.CATPart ; *.CATProduct)	✓	/	✗	/
Inventor(*.ipt *.iam)	✓	/	✗	/
NX(*.prt)	✓	/	✗	/
Jt(*.jt)	✓	/	✗	/
Parasolid binary/text files (*.x_b) (*.x_t)	✓	/	✗	/
Pro/engineer granite/neutral	✓	/	✗	/
PDF file (*.pdf)	✓	✓	✓	✓
Pro/ENGINEER(*.prt* ; *.asm*)	✓	/	✗	/
Pro/ENGINEER Granite(*.g)	✓	/	✗	/
Pro/ENGINEER Neutral(*.neu*)	✓	/	✗	/
Rhino(*.3dm)	✓	/	✗	/
Solidworks (*.prt *.sldprt *.asm *.sldasm)	✓	/	✗	/
Acis(*.sat)	✓	✓	✓	✓
3D Studio (*.3ds)	✓	/	✓	/
3D DWF (*.dwf)	✗	✓	✓	✓

3D DWFx (* .dwfx)	✗	✓	✓	✓
Metafile (* .wmf)	✓	✓	✓	✓
MicroStation DGN (* .dgn)	✓	✓	✓	✗
Enhanced Metafile (* .emf)	/	✗	/	✓
Lithographic printing (* .stl)	/	✓	/	✓
Package PS (* .eps)	/	✓	/	✓
DXX Extraction (* .dxx)	/	✓	/	✓
Bitmap (* .bmp)	/	✓	/	✓
Block (* .dwg)	/	✓	/	✓
DGN V 7/V8(*. dgn)	/	✓	/	✗
Vector graphics (* .svg)	✗	✗	✓	✓

5. Secondary Development Interface Support

Secondary development compatibility: GstarCAD 2026's LISP, VBA, SDS, GRX is perfectly compatible with the AutoCAD development interface. The plug-ins on AutoCAD can be easily migrated to the GstarCAD platform and the Python secondary development interface provides more possibilities for the software secondary development ecosystem.

Compatibility	AutoCAD 2026		GstarCAD 2026	
	Import	Export	Import	Export
LISP Development Interface	✓	/	✓	/
VBA Development Interface	✓	/	✓	/
ARX -like development interface	✓	/	✓	/

.net development interface	✓	/	✓	/
Python Development Interface	✗	/	✓	/

6. Operating System Support

The difference between GstarCAD 2026 and AutoCAD 2026 in terms of operating system support mainly lies in their compatibility with Windows and Linux.

6.1. GstarCAD 2026 Os

Windows system support

GstarCAD 2026 supports the full range of Windows operating systems, including Windows 7, Windows 10, Windows 11 and earlier versions (such as WinAll), and is compatible with both 32-bit and 64-bit.

Linux system support

GstarCAD 2026 has launched a Linux version designed specifically for the trusted innovation environment, which is compatible with a variety of domestic operating systems and CPU architectures:

Mac system support

GstarCAD support for Mac version. The Mac main interface display remains consistent with Windows, allowing users to get started at zero cost. It supports more than 790 commands, covering more than 90% of the 2D commands of the Windows version of the same period. Supports hundreds of extended tools, including block tools, text tools, layout tools, annotation tools, selection tools, editing tools, customization tools, coordinate tools, and GstarCAD tools. Additionally, LISP interface is more complete and richer than AutoCAD.

6.2. AutoCAD 2026 Os

Windows system support

AutoCAD 2026 only supports 64-bit Windows systems and requires Windows 10 (version 1809 or higher) or Windows 11, and DirectX required 12 compatible graphics cards 26.

Other system support

AutoCAD 2026 supports Mac version, but there is no mention of official support for Linux.

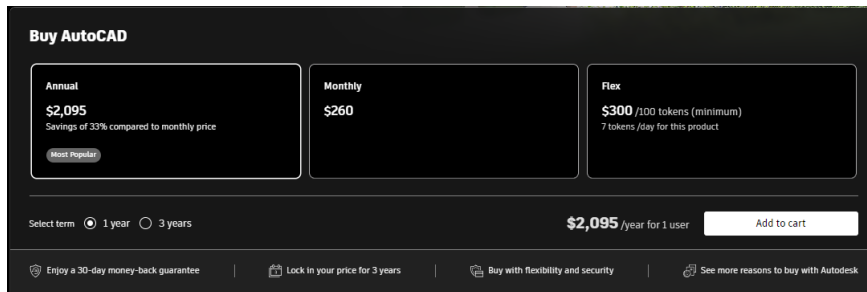
Comparison and Summary:

Software	Windows Support	Linux Support	Mac Support
GstarCAD 2026	Win 7 - Win 11 (32/64 bit)	Support	Support
AutoCAD 2026	Win 10/ Win 11 (64-bit only, version 1809+)	Not support	Support

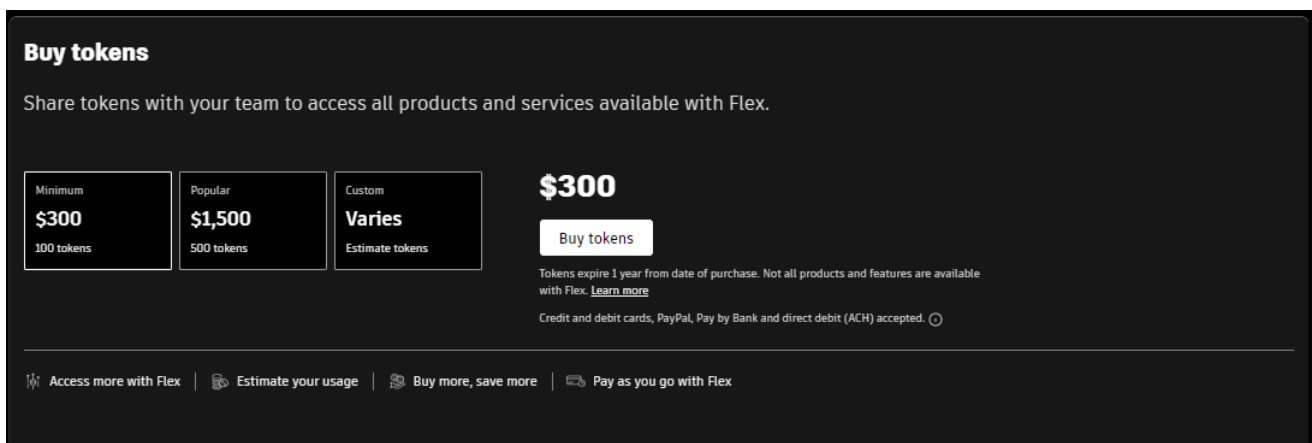
7. Market Positioning

7.1. AutoCAD 2026 Pricing Strategy

AutoCAD 2026 adopts a subscription-based business model in line with previous versions.



In Europe and the United States, there is also a new usage-based subscription system called Autodesk Flex , 7 tokens/day, 100 tokens for \$300 (usage period of 1 year and 14 days), 500 tokens for \$1,500 (usage period of 1 year and 71 days), or purchase any number of tokens. Flex is a good choice for team members or individuals who want to try out the product or only need occasional access.



7.2. GstarCAD 2026 Pricing Strategy

GstarCAD's licensing policy is flexible and simple. We provide both perpetual license and subscription. You are free to choose the license mode and you decide when to upgrade.

Perpetual License

When you choose to buy GstarCAD Perpetual License, you have the right to use it perpetually. Buy it once and it's forever yours. You are not forced to buy the subscription or upgrades.

Perpetual License and Subscription Plans

You can buy GstarCAD Perpetual License together with Subscription Plans. Gstarsoft releases a new GstarCAD major version every year, with Subscription Plans you can upgrade to the latest version of GstarCAD.

Yearly Subscription

GstarCAD Yearly Subscription is similar to AutoCAD Subscription; you can just pay a smaller amount for GstarCAD's 1-year license.

7.3. Marketing Share

Autodesk: As the global CAD software market leader, Autodesk's AutoCAD and other CAD products occupy a significant market share in the world. This is mainly due to its wide range of capabilities and applications in various industries such as construction, manufacturing and engineering.

GstarCAD: Even though GstarCAD market share is not as high as AutoCAD's, GstarCAD products are more and more accepted by designers due to it is seamless compatible, high performance, great stability and efficiency features, etc.

8. Summary and Suggestions

Although AutoCAD is still the star product in computer-aided design field, the performance is still not as good as GstarCAD. GstarCAD is extremely excellent dealing with large amounts of data which enhances the work efficiency a lot. GstarCAD drawing file and data are compatible with AutoCAD perfectly and realizes bidirectional compatibility with AutoCAD, and users can easily migrate from AutoCAD to GstarCAD with a lower cost.

GstarCAD 2026 not only covers almost all the command used features of AutoCAD 2026 at the drawing function level, but also develops plenty of practical features which enhance user's work flow greatly. Even it has also made more complete solutions in multi directions of collaboration, but it still needs to accumulate technology in terms of intelligence.



GstarCAD 2026

<https://www.gstarcad.net>

Distribution Partner

<https://gstarcadaustralia.com/>

Gstarsoft

	GstarCAD 2026			BricsCAD 2025	
Files	Plus	Pro	Std	Pro	LT
64-bit Support	✓	✓	✓	✓	✓
.dwg and .dxf for AutoCAD version 2.5 to latest	✓	✓	✓	✓	✓
.pat,.shx,.lin and etc	✓	✓	✓	✓	✓
Password Protection	✓	✓	✓	✓	✓
File Recover and Audit	✓	✓	✓	✓	✓
Purge	✓	✓	✓	✓	✓
Etransmit	✓	✓	✓	✓	✓
Sheet Set Manager	✓	✓	✓	✓	✓
CAD Standard .dws	✓	✓	✓	✓	✓
Xrefs in-place Editing	✓	✓	✓	✓	✓
DWF Underlay	✓	✓	✓		
PDF Underlay	✓	✓	✓	✓	✓
DGN File Formate Support	✓	✓	✓	✓	✓
DWG Convert	✓	✓	✓		
Import WMF, SAT, 3DS, DWG, DGN, PDF, SVG	✓	✓	✓	Partially	Partially
Export to DWG, DWF, DWFX, WMF, EMF, SAT, STL, EPS, DXX, BMP, SVG	✓	✓	✓	Partially	Partially
Plot and Publish to PDF	✓	✓	✓	✓	✓
Publish to DWF 2D & 3D	✓	✓	✓		
Import SVG	✓	✓	✓		
Export to SVG	✓	✓	✓	✓	✓
DAE import/export (XML 3D data)				✓	✓
Collaboration	✓ 365	✓ 365	✓ 365	Bricsys24/7	Bricsys24/7
IFC Import/Export and Edit	✓	✓		BricsCAD BIM	BricsCAD BIM
RVT Import	✓	✓		BricsCAD BIM	BricsCAD BIM
ACAD Tool Palettes Import Tool	✓	✓	✓		
Single-document Mode	✓	✓	✓	✓	✓
Digital signature	✓	✓	✓	✓	✓
Batch Digital Signing Tool	✓	✓	✓		
Reset Settings to Default	✓	✓	✓		
DWF Import	✓	✓	✓		
STEP/IGES Files	✓	✓			
DWGUNITS	✓	✓	✓		
Import XTP file from Toolpalettes	✓	✓	✓	✓	✓
Drawing Merge	✓	✓	✓		
Interface	Plus	Pro	Std	Pro	LT
3D Modeling Workspace	✓	✓	✓	✓	✓
Quick Properties	✓	✓	✓	Partially	Partially
Hidden Message Settings	✓	✓	✓		
CUI Menus and Toolbars	✓	✓	✓	✓	✓
CUI Import & Export	✓	✓	✓		

Drag and Drop Customization	✓	✓	✓		
Visual Menu Customization	✓	✓	✓		
Ribbon/Classic	✓	✓	✓	✓	✓
Properties Palettes	✓	✓	✓	✓	✓
Design Center / Tool Palettes	✓	✓	✓	Partially	Partially
Library	TOOLPALETTES	TOOLPALETTES	TOOLPALETTES	Blocks Library	Blocks Library
Xref Palette	✓	✓	✓	Partially	Partially
Command Line and auto complete	✓	✓	✓	✓	✓
WorkSpace command	✓	✓	✓	✓	✓
Clean Screen	✓	✓	✓	✓	✓
Vertical Dynamic Prompts List	✓	✓	✓		
File Tab	✓	✓	✓	✓	✓
Extended Quad cursor 2D/3D				✓	✓
Get Started Page				✓	✓
Selection, Snap & Track	Plus	Pro	Std	Pro	LT
3D Mouse Device Adaption	✓	✓	✓	✓	✓
Lasso Selection	✓	✓	✓	✓	✓
Navigation Cube	✓	✓	✓	LookFrom	LookFrom
SELECTIONCYCLING	✓	✓	✓	✓	✓
Right-Click + Drag Method	✓	✓	✓		
Selection Preview	✓	✓	✓	✓	✓
Quick Select	✓	✓	✓	✓	✓
Select Similar	✓	✓	✓	✓	✓
Xtra Grips for Pline & Hatch Objects	✓	✓	✓	✓	✓
Osnap	✓	✓	✓	✓	✓
Grid and Snap	✓	✓	✓	✓	✓
Polar & OTrack	✓	✓	✓	✓	✓
Distance from Endpoint and Divide Segments option	✓	✓	✓		
Multifunctional Grips	✓	✓	✓		
Group	✓	✓	✓	✓	✓
ADDSELECTED command	✓	✓	✓	✓	✓
Multiple command	✓	✓	✓	✓	✓
CURSORMODE				✓	✓
Dimensions	Plus	Pro	Std	Pro	LT
DIMCENTER Command	✓	✓	✓	Partially	Partially
Reassociate Dimension	✓	✓	✓	✓	✓
Rapid Distance	✓	✓	✓		
Standard Dimensions	✓	✓	✓	✓	✓
Associative Dimension	✓	✓	✓	✓	✓
Quick Dimension	✓	✓	✓	✓	✓
Qleader	✓	✓	✓	✓	✓
Dimension Break	✓	✓	✓	✓	✓
Multileaders	✓	✓	✓	✓	✓
Dynamic Dimensions	✓	✓	✓	✓	✓

DIMINSPECT	✓	✓	✓		
DIMJOGGED	✓	✓	✓	✓	✓
DIMJOGLINE	✓	✓	✓	✓	✓
DIMSPACE	✓	✓	✓	✓	✓
Voice Annotation	✓	✓	✓		
Parametric Constraints (Geometric)	Plus	Pro	Std	Pro	LT
Coincident Constraint	✓			✓	
Perpendicular Constraint	✓			✓	
Parallel Constraint	✓			✓	
Tangent Constraint	✓			✓	
Horizontal Constraint	✓			✓	
Vertical Constraint	✓			✓	
Collinear Constraint	✓			✓	
Concentric Constraint	✓			✓	
Smooth Constraint	✓			✓	
Symmetric Constraint	✓			✓	
Equal Constraint	✓			✓	
Fix Constraint	✓			✓	
Constraint Settings	✓			✓	
Delete Constraints	✓			✓	
Show/Hide Constraint	✓			✓	
Parametric Constraints (Dimension)	Plus	Pro	Std	Pro	LT
Linear Constraint	✓			✓	
Horizontal Constraint	✓			✓	
Vertical Constraint	✓			✓	
Aligned Constraint	✓			✓	
Angular Constraint	✓			✓	
Radius Constraint	✓			✓	
Diameter Constraint	✓			✓	
Constraint Settings	✓			✓	
Delete Constraints	✓			✓	
Show/Hide Constraint	✓			✓	
Parameters Manager	✓			✓	
Dynamic Constraint Mode	✓			✓	
Annotational Constraint Mode	✓			✓	
Text	Plus	Pro	Std	Pro	LT
Text Align / Text Match	✓	✓	✓	Text Align	Text Align
Change Text	✓	✓	✓		
Mtext	✓	✓	✓	✓	✓
Text	✓	✓	✓	✓	✓
Multi-language Character Set	✓	✓	✓		
In-place Text Editor	✓	✓	✓	✓	✓
Mtext Editor	✓	✓	✓	✓	✓
Support .shx and .ttf font	✓	✓	✓	✓	✓
Spelling	✓	✓	✓	✓	✓
Check spelling in Mtext	✓	✓	✓	✓	✓
Field	✓	✓	✓	✓	✓
Revcloud	✓	✓	✓	✓	✓

Wipeout	✓	✓	✓	Partially	Partially
Rtext / Arc text	✓	✓	✓	✓	✓
Text Incremental Copy	✓	✓	✓		
Text on line	✓	✓	✓		
Statistics Summation	✓	✓	✓		
Layers	Plus	Pro	Std	Pro	LT
Auto Layer	✓	✓	✓		
Change to ByLayer (SETBYLAYER)	✓	✓	✓	✓	✓
Layer Properties Manager	✓	✓	✓	✓	✓
Layer States Manager	✓	✓	✓	✓	✓
Layer Translator	✓	✓	✓	✓	✓
Layer Walk	✓	✓	✓	✓	✓
Layer Previous	✓	✓	✓	✓	✓
Layer Isolate	✓	✓	✓	✓	✓
Layer Unisolate	✓	✓	✓	✓	✓
Layer Lock	✓	✓	✓	✓	✓
Layer Unlock	✓	✓	✓	✓	✓
Layer Unlock All	✓	✓	✓		
Lock Other Layers	✓	✓	✓		
Layer Freeze/Freeze Other	✓	✓	✓	✓	✓
Freeze Other Layer	✓	✓	✓		
Thaw All Layers	✓	✓	✓	✓	✓
Layer On/Off	✓	✓	✓	✓	✓
Off Other Layer	✓	✓	✓		
Trun All Layers On	✓	✓	✓	✓	✓
Layer Merge	✓	✓	✓	✓	✓
Layer Delete	✓	✓	✓	✓	✓
Layer Match	✓	✓	✓	✓	✓
Hatch	Plus	Pro	Std	Pro	LT
Gradient Hatches	✓	✓	✓	✓	✓
Custom Patterns	✓	✓	✓	Less patterns	Less patterns
Background and Color for Hatch Patterns	✓	✓	✓	Less patterns	Less patterns
Trim/Extend of/to Hatch Pattern Entities	✓	✓	✓	✓	✓
Superhatch	✓	✓	✓	✓	✓
Hatch grip edit	✓	✓	✓	✓	✓
Raster images	Plus	Pro	Std	Pro	LT
Raster Image Support (Clipping, Transparency, ...)	✓	✓	✓	✓	✓
Support Kinds of Image Files	✓	✓	✓	✓	✓
Express Tools	Plus	Pro	Std	Pro	LT
Lockup (with password)	✓	✓	✓		
Layout Merge	✓	✓	✓	✓	✓
Synchronize Viewports	✓	✓	✓	✓	✓
Breakpoint Check (CLOSELINE)	✓	✓	✓		
Fast Select (FASTSEL command)	✓	✓	✓	✓	✓

Change Base	✓	✓	✓		
Layer Draw Order	✓	✓	✓	✓	✓
Area Table	✓	✓	✓		
Break Object	✓	✓	✓		
Block Break	✓	✓	✓		
Block Replace	✓	✓	✓	✓	✓
Block to XREF	✓	✓	✓	✓	✓
Graphic Compare	✓	✓	✓		
Batpurge	✓	✓	✓		
Layout by Path	✓	✓	✓		
Line2pl	✓	✓	✓		
Sptpl	✓	✓	✓		
GstarCAD Tools	✓	✓	✓		
Table Tools	✓	✓	✓		
Plot tools	✓	✓	✓		
Drawing Compare	✓	✓	✓	✓	✓
Delete Duplicate Objects (OVERKILL)	✓	✓	✓	✓	✓
Others	Plus	Pro	Std	Pro	LT
Hardware Acceleration	✓	✓	✓		
Break at Point	✓	✓	✓		
CLIPIT Command	✓	✓	✓	✓	✓
Quick Edit Block Attribute Text	✓	✓	✓	✓	✓
System Variable Monitor	✓	✓	✓		
Region	✓	✓		✓	✓
Make Shape	✓	✓	✓	✓	✓
Import Layout as Sheet	✓	✓	✓		
Viewport Scale	✓	✓	✓	✓	✓
VPMAX/VPMIN	✓	✓	✓	✓	✓
Attribute Increment	✓	✓	✓		
Define Layout Viewport from ModelSpace (M2LVPC)	✓	✓	✓		
Security	✓	✓	✓	✓	
Free Scale	✓	✓	✓		
Hatch to Back	✓	✓	✓	✓	✓
Reverse	✓	✓	✓		
Synchronize Attributes	✓	✓	✓	✓	✓
Clip	✓	✓	✓	✓	✓
Array Panel	✓	✓	✓		
Align Tool / Arrange Tool	✓	✓	✓	Arrange	Arrange
Areasum	✓	✓	✓		
Table	✓	✓	✓	✓	✓
Symmetric Draw	✓	✓	✓		
Outline Objects	✓	✓	✓		
Real time boundary detection				✓	✓
Invert Fillet	✓	✓	✓		
Draw and Modify Commands	✓	✓	✓	✓	✓
Offset Both Option	✓	✓	✓		
Helix	✓	✓	✓	✓	✓

Real Time Pan & Zoom	✓	✓	✓	✓	✓
Annotative Objects	✓	✓	✓	✓	✓
Object Scales	✓	✓	✓	✓	✓
Redraw and Regeneration	✓	✓	✓	✓	✓
Layout and Paper Space	✓	✓	✓	✓	✓
Layout Viewport settings	✓	✓	✓		
Magnifier	✓	✓			
Barcode & QR Code	✓	✓	✓		
Non-rectangular Viewports	✓	✓	✓	✓	✓
Shortcut Customization	✓	✓	✓		
Match Properties	✓	✓	✓	✓	✓
Multilines and Multiline Styles	✓	✓	✓	✓	✓
Block Create and Insert	✓	✓	✓	✓	✓
Block Attribute Definition	✓	✓	✓	✓	✓
Refedit	✓	✓	✓	✓	✓
Hyperlink	✓	✓	✓	✓	✓
Scale List	✓	✓	✓	✓	✓
Dynamic Block Create/Insert/View	✓	✓	✓	Partially	Partially
Dynamic Block Editor (BEDIT)	✓	✓	Partially		
MEASUREGEOM (Sum area and Total Length)	✓	✓	✓	Area	Area
AutoXLSTable	✓	✓	✓		
Pline Boolean	✓	✓	✓		
Layout export	✓	✓	✓	✓	✓
COPYGUIDED				✓	✓
EXTRACTBLOCKS				✓	✓
3D	Plus	Pro	Std	Pro	LT
POLYSOLID	✓	✓		✓	
PLANESURF	✓	✓			
SURFOFFSET	✓	✓			
CONVTOMESH	✓	✓		✓	✓
CONVTOSOLID	✓	✓		✓	✓
CONVTOSURFACE	✓	✓		✓	✓
CONVTONURBS	✓	✓			
Point Cloud	✓	✓	✓	✓	
3D Edition Grips	✓	✓			
Section Plane	✓	✓		✓	
Flatshot	✓	✓	✓	✓	
3D Surfaces	✓	✓	✓	✓	
ACIS Modeling & Editing	✓	✓		✓	
3D Orbit options	✓	✓	✓	✓	
Render	✓	✓		✓	
Visual Styles	✓	✓	✓	✓	✓
Solid Editing	✓	✓		✓	
Solprof / Solview / Soldraw	✓	✓		Partially	
3D Constraints				✓	

Design intent				✓	
Surface entity creation				✓	
Deformable Modeling				✓	
Lofting	✓	✓		✓	
Lighting	✓	✓	✓	✓	
Parametric Blockify				✓	✓
Printing	Plus	Pro	Std	Pro	LT
CTB & STB Plot Style Files	✓	✓	✓	✓	✓
Plot Styles Table Editor	✓	✓	✓	✓	✓
Built-in Print Driver	✓	✓	✓		
Import & Editing of Page Setups	✓	✓	✓	✓	✓
Publish	✓	✓	✓	✓	✓
AUTOPUBLISH	✓	✓	✓		
Hide and Shade Plot	✓	✓	✓	✓	✓
Batch Print	✓	✓	✓		
Arrange frame	✓	✓	✓		
Publish to PDF	✓	✓	✓	✓	✓

REMARKS

This table is for reference only.

Empty space means functionally not supported.

The package that contains LT version does not support BEDIT.

Table comparison updated on May 30th 2025.



GstarCAD 2026 vs BricsCAD 2025

GstarCAD 2026

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GstarCAD

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GstarCAD 2026 VS BricsCAD 2025

GstarCAD 2026 introduces a completely reconstructed interface, offering a sleek, modern look that enhances the user experience. Performance improvements boost efficiency across various tasks. Exciting new features include **Dimensional Constraints**, **Parameters Manager**, **DWG Compare** and more, unlocking powerful design capabilities. Innovative feature like **Drawing Merge** streamlines workflows, and **Engineering Projection** delivers precise bottom-view accuracy. Additionally, updates to **DIMCORD**, **Batch Plot**, **Batch Purge**, **PDF Import** and **Data Extraction** further enhance usability.

1. Comprehensive Evaluation

As leading CAD platforms, GstarCAD 2026 and BricsCAD 2025 exhibit distinct competitive positioning through differentiated strengths. GstarCAD 2026 dominates general design scenarios with optimized performance, deep technical refinement, and superior efficiency—particularly in 2D drafting. Its cross-platform "Cloud + Desktop" ecosystem seamlessly adapts to diverse workflows. BricsCAD 2025 excels in AI-driven automation and global ecosystem integration (leveraging Hexagon's industrial metrology resources), making it ideal for advanced 3D modeling. However, its non-standard workflows incur steeper learning curves, and AutoCAD file compatibility remains weaker. What's more, BricsCAD offers innovative, AI-augmented tools that redefine traditional CAD interactions. GstarCAD prioritizes precision and speed, especially for routine operations. In terms of Collaboration, Bricsys 24/7 enhances enterprise project management and multi-user coordination. GstarCAD 365 provides a unified cross-platform cloud solution tailored for corporate environments. For the compatibility, GstarCAD is high compatible with AutoCAD file formats, while BricsCAD occasionally struggles with attribute retention in complex files.

2. GstarCAD Advantages:

- **Excellent Performance**

In 12 key operational benchmarks, GstarCAD demonstrates 50%+ higher efficiency than BricsCAD on average:

It takes only 1/3 the time in file saving compared with BricsCAD (0.89s vs 2.83s).

Delete operations are nearly 10x faster (1.63s vs 16.21s).

The optimized graphics engine also performs excellent in complex drawing: Full drawing zoom is 89% faster and Mirror operations require 70% less time.

- **Cross-Platform Cloud Collaboration**

A unified "PC + Web + Mobile" workflow supporting:

Seamless multi-OS synchronization (Windows/Linux/macOS)

Supports private cloud deployment options

Granular permission controls and activity auditing

Offer superior data security compared to Bricsys 24/7.

- **Cost effective & Extendable Advantages**

Licensing: Primarily perpetual licenses reducing long-term TCO

Development: Supports LISP/.NET/Python APIs for full mechanical/architectural tool chains

Formats: 15+ additional industrial formats (STEP/IGES/3DS) for cross-domain collaboration

- **Seamless Migration**

Near-perfect AutoCAD command/UI parity for almost zero migration cost

Dynamic input prompts and tri-mode interface switching easily.

Contrasts with BricsCAD's non-standard command structure that increases learning curves

- **Functionalities**

According to the comparison of 54key function list items on the GstarCAD official website, BricsCAD 2025 supports less basic functions than GstarCAD 2026. However, BricsCAD 2025 has broken away from the constraints of traditional CAD software functions and proposed many innovative interactive operations. It changes from looking for functions and then using functions in CAD software to CAD software intelligently analyzing user's operations and actively providing users with proper functions.

3. Competitor Products

- **Competitor Product Information**

BricsCAD is a 2D and 3D design product from Bricsys.

Products	BricsCAD Lite : includes almost all CAD functions (2D drafting)
	BricsCAD Pro: Based on the Lite version, add solid/surface/parametric functions (2D+3D drafting)
	BricsCAD BIM: Based on the Pro version , built-in BIM and other functions
	BricsCAD Mechanical : Modeling for mechanical/parts assembly and sheet metal design
	BricsCAD Ultimate: A collection of the above four versions and features

4. Functional Comparison

4.1. New Features Comparison

GstarCAD 2026 New	BricsCAD 2025	GstarCAD 2026	Comparison
Parametric constraints (dimensional constraints)	✓	✓	BricsCAD already has this function
Interface Reconstruction	✓	✓	See below for comparison
Drawing Merge (AUTOMERGE)	X	✓	BricsCAD does not support this function.
DIMCORD	X	✓	BricsCAD does not support dimensioning the coordinate point.
Batch Plot Optimization (BP)	X	✓	Added sequential preview. BricsCAD does not support this function.
Batch Purge Optimization (BATPURGE)	✓	✓	Added support for cleaning up data such as registered applications, zero-length geometries, etc. The two softwares are basically the same.
DWG Compare (COMPARE)	✓	✓	The functions are basically same.
Engineering Projection (ENGINEERINGVIEWMODE)	X	✓	BricsCAD does not support this function.
PDF import (PDFIMPORT)	✓	✓	The underlying library is replaced to optimize the import efficiency. The two softwares performed similarly.
BricsCAD 2025 NEW	BricsCAD 2025	GstarCAD 2026	Comparison
Built-in parametric, 2D, and 3D Blocks Library	✓	✓	Similar to ADCENTER and tool palette in GstarCAD

POINTCLOUDCOLORMAP	√	X	<p>New X- Ray color map provides clearer display of point cloud data.</p> <p>* GstarCAD has basic point cloud coloring capabilities, but there is still gap between BricsCAD in some aspects such as multi-attribute dynamic coloring, specialized color library and intelligent range optimization.</p>
ETRANSMIT	√	√	The ETRANSMIT in GstarCAD is highly similar to that of BricsCAD and can meet the needs of drawing packaging.
Input History	√	√	Input history can be accessed and reused from the command line and command context menu
Selection Cycling	√	√	Selects overlapping entities made easy
TRIM	√	√	Better performance in GstarCAD
2D Reference Parameters	√	X	BricsCAD now supports AutoCAD® style 2D reference parameters
ATTACHMENTS	√	X	Improved search for missing attachments and better updates to panel status.
COLORBOOKS	√	√	GstarCAD supports COLORBOOKS.
CURSORMODE	√	√	Switches the cursor to a solid color mode for better legibility hovering over raster imagery.
DIMJOGGED / DIMJOGLINE	√	√	BricsCAD offers new DIMJOGGED and DIMJOGLINE Command
EXPORTTOAUTOCAD	√	X	<p>Creates a new version of a drawing file with AEC entities converted into BLOCKs.</p> <p>* GstarCAD has no native command solution,</p>

			which requires scripts or plug-ins to implement
MIRROR	✓	✓	The image is more visual, and there is no difference between the two software
PEDITTEXT	✓	X	A modification Simplified method of PLINE. GstarCAD does not support this function.
PEDITTEXT	✓	X	Use the Ctrl key to select the middle grip of the polyline for editing GstarCAD does not support this function.
QUICKCALC	✓	✓	GstarCAD already has this function
SCALE	✓	✓	Provides a dynamic preview as you drag the cursor to set the scale factor of an entity. GstarCAD already has this function
TABLE – Autofill	✓	X	Click and drag to autofill TABLE cells. GstarCAD does not have this function.
TABLE – Row and Column Selection	✓	✓	Select rows and columns by selecting the column heading or the row number. GstarCAD already has this function
VPSCALE	✓	✓	Controls added to the Status Bar for setting the layout scale simply. GstarCAD already has this function
Drawing Margins (PRINT)	✓	X	More custom details than GstarCAD
Geo-referenced point cloud	✓	X	GstarCAD does not support this function
DYNAMIC BLOCK	✓	✓	GstarCAD already has this function, Functionality same.
MTEXT (subscript and superscript)	✓	✓	Allows text to be set as subscript or superscript by simply clicking a button. GstarCAD already has this function. GstarCAD supports text

			panel which is more intuitive, but BricsCAD only supports pops up windows for editing text.
Automatic PDF Viewing (PRINT)	√	X	PDF after printing, GstarCAD needs to open PDF manually, but it can be done indirectly through scripts or plug-ins. Now Automation
PUBLISH	√	√	GstarCAD already has this function
SELECTION CYCLING	√	√	Supports multiple selections using the Shift and Ctrl keys for enhanced usability. GstarCAD already supported selectioncycling
QSELECT	√	√	Display the selected entity in the combo box GstarCAD already supports QSELECT.
Preview block (INSERT)	√	√	The insert dialog now shows a preview of the block to be inserted
MATCHPROP	√	√	GstarCAD already has this function, no difference
Annotative scales	√	√	GstarCAD already has this function, no difference
Block Scaling (INSERT)	√	√	GstarCAD already has this function * BCAD crashes when using this function
VIEWPLOTDETAILS	√	√	GstarCAD partially supports this function; there is no independent task details dialog box. There are few statistical indicators that are not visual enough, and there is no task cancel button.
Sheet Set Manager	√	√	GstarCAD already has this function, and the style is the same
File Open Dialog Box	√	X	GstarCAD already has this function.

Rollover Tips parameters	√	X	Rollover Tips allows users to view and change parameters when hovering over a block.
Manual point cloud classification	√	X	Automatic point-cloud classifier augmented with a manual override to supplement or replace classified objects in point clouds.
BricsCAD Status Bar	√	√	GstarCAD already has this function, and the style is the same
Sketch-based modeling features - Fillets and chamfers	√	X	Added support for fillets and chamfers in Sketch Based Modeling features.
Sketch-based modeling Features - Work plane	√	X	Experimental feature to link sketches to a workplane during Direct or Sketch Based Feature modeling.
MATCHPROP	√	√	GstarCAD already has this function, no difference
Annotative scales	√	√	GstarCAD already has this function, no difference
Block Scaling (INSERT)	√	√	GstarCAD already has this function * BCAD crashes when using this function
VIEWPLOTDETAILS	√	√	GstarCAD partially supports this function; there is no independent task details dialog box. There are few statistical indicators that are not visual enough, and there is no task cancel button.
Sheet Set Manager	√	√	GstarCAD already has this function, and the style is the same
File Open Dialog Box	√	X	GstarCAD already has this function.
Rollover Tips parameters	√	X	Rollover Tips allows users to view and change parameters when hovering over a block.

Manual point cloud classification	√	X	Automatic point-cloud classifier augmented with a manual override to supplement or replace classified objects in point clouds.
BricsCAD Status Bar	√	√	GstarCAD already has this function, and the style is the same
Sketch-based modeling features - Fillets and chamfers	√	X	Added support for fillets and chamfers in Sketch Based Modeling features.
Sketch-based modeling Features - Work plane	√	X	Experimental feature to link sketches to a workplane during Direct or Sketch Based Feature modeling.
Point cloud formats	√	X	Support import Riegl , Z+F and LGSX format
POINTCLOUDCLASSIFY	√	X	Two new Point Cloud Classifier models are supported: for road-like scans (mobile mapping) and for outdoor point clouds/aerial scans.
Experimental Features mode	√	X	Experimental Mode is a sandbox for users to explore and test innovative features under development. The features are not ready for full release but offer a preview of future enhancements.
BLOCKIFY	√	X	Updated to include support for the Parametric Block features.
DWGHEALTH	√	X	Descriptions of routines can now be viewed directly in the DWGHEALTH panel, without entering edit mode.
Specify a base point (COPYGUIDED)	√	X	Pick a base point when the copied detail has at least one degree of freedom.
Flip Entities (COPYGUIDED)	√	X	Flip entities along the same axis by pressing the Shift key or clicking the icon in model space.

VIEWBASE Drawing View	√	X	Enabled background generation of drawing views for interaction as views are generated.
FLATSHOT	√	√	BricsCAD claims that the overall performance of FLATSHOT has been improved 16-18 times
Point Cloud Rendering Mode	√	X	Supports doll house rendering, eye dome lighting, and gap filling, with new panel controls.
RTISOLATIONSELECTION	√	X	Isolate selected entities, 2D or 3D, during a 3DORBIT. The hidden entities are displayed when exiting the orbit command.

4.2. Basic Function Comparison

	BricsCAD 2025	GstarCAD 2026
Draw		
Supports DWG formats from R14 to 2018	√	√
Hatch, Font, Line Type And Other File Support	√	√
Password Protection	√	√
File Recover and Audit	√	√
Batch Purge	√	√
Etransmit	√	√
Sheet Set	√	√
DWG Reference	√	√
Point Cloud Reference	√	√
Digital Signature	√	√
Cad Table to Excel	×	√
Drawing Compare	√	√

Drawing Lock	✓	✓
Cloud Storage	✓	✓
General Features		
Draw	✓	✓
Modify	✓	✓
Dimension	✓	✓
Layer	✓	✓
Block	✓	✓
Linear Properties	✓	✓
Utilities	✓	✓
Select, Snap And Track		
Selection Preview	✓	✓
Quick Select	✓	✓
Grip Editing	✓	✓
Object Snap	✓	✓
Divide Segments	×	✓
Distance from Endpoint	×	✓
Grid and Snap	✓	✓
Polar Tracking	✓	✓
Object Snap Tracking	✓	✓

Group	✓	✓
Dynamic Input	✓	✓
Frame Selection	✓	✓
Dimension		
Regular Dimensions	✓	✓
Dimension Style	✓	✓
Dimension association	✓	✓
Quick Leader	✓	✓
Dimension Break	✓	✓
Multileader	✓	✓
Area Table	×	✓
Revision Cloud	✓	✓
Dimension Scale	✓	✓
Stretch Dimension	✓	✓
Reassociate Dimension	✓	✓
Dynamic Dimension	✓	✓
Wipeout	✓	✓
Properties/properties editing	✓	✓
Data Extraction	✓	✓
Data Link	✓	✓

Text		
Text Style	√	√
Multiline Text	√	√
Single Line Text	√	√
Multi-language Character Set	×	√
In-place Text Editor	√	√
Mtext Editor	√	√
Supports .shx and .ttf fonts	√	√
Spell Check	√	√
Field	√	√
Annotation Text	√	√
Remote Text	√	√
Arc Text	√	√
Text Online	×	√
Statistics Summation	×	√
Text Align	√	√
Text Match	×	√
Text Fit	√	√
Hatch		
Pattern Hatch	√	√
Gradient Hatch	√	√

Customization Hatch	√	√
Trim /Extend of to Hatch	√	√
Superhatch	√	√
Raster image		
Raster image support (clipping, transparency, etc.)	√	√
Supports various of raster image formats	√	√
Other		
Auto Layer	×	√
Profile	×	√
Symmetric Draw	×	√
Free Scale	×	√
Align Tool	×	√
Arrange Tool	√	√
Break Object	×	√
Pline Boolean	√	√
Real-time zoom and pan	√	√
Navigation Tool	√	√
Magnifier	×	√
Redraw and Regenerate	√	√
Layout and Paper Space	√	√

Non-rectangular Viewports	√	√
Layer Manager	√	√
Multilines and Multiline Styles	√	√
Block definition and insertion	√	√
Block Attribute Definition	√	√
Xref edit	√	√
Dynamic Blocks (Block Editing)	Convert to Parametric Blocks	√
Break Block	×	√
Barcode and QR code	×	√
Text Search	√	√
Table object and Table Styles	√	√
Table	√	√
AutoXLSTable	×	√
Automatic Regeneration	√	√
Unlock All Layers	√	√
Layer Draw Order	√	√
Dynamic UCS	√	√
Interface		
Shortcut menu	√	√
Quick Access Toolbar	√	√
Layout tab	√	√

Application Status Bar	✓	✓
Custom User Interface CUI	✓	✓
Visual menu customization	✓	✓
Ribbon interface	✓	✓
Property Palettes	✓	✓
Design Center	✓	✓
Tool Palettes	✓	✓
Command Line	✓	✓
Workspace	✓	✓
File tab bar	✓	✓
Dark and light theme mode	✓	✓
UCS coordinates	✓	✓
Draw		
Line, Polyline, Spline, Ray, Construction Line	✓	✓
Multiline, Multiline Style	✓	✓
Circle, Arc, Ellipse, Ellipse Arc	✓	✓
Polygon, rectangle, region, concentric circles, multi-points	✓	✓
Helix	✓	✓
Parametric constraints	✓	✓
Move, copy, rotate, scale, mirror, stretch, and align	✓	✓
Trim, extend, lengthen, break, merge	✓	✓

Fillet, chamfer	✓	✓
PDF Attach	✓	✓
Image attach	✓	✓
DWG Attach	✓	✓
Print		
CTB and STB Print Style table	✓	✓
Built-in print driver	✓	✓
Input and editing page setup	✓	✓
Publish	✓	✓
Shaded and Hidden Print	✓	✓
Batch Print	×	✓
Arrange Frame	×	✓
Transparency print	✓	✓
Raster Image Print	✓	✓

5. Performance Comparison

5.1. Comparison Environment and Test Result

	BricsCAD 2025	GstarCAD 2026
Software Version	25.2.04(X64)	BUILD250407-64bit
System Environment	-	
Hardware Environment (Processor)	12th Gen Intel(R) Core(TM)i5-12500	
Hardware Environment (with Ram)	16.0 GB (DDR4 3200MHz)	
Hardware Environment (Graphics Card)	-	

We selected 50 drawings and tested 12 key functional operations, recording the average response times for both software solutions. All operations were performed using default software settings (For example, GstarCAD has hardware acceleration disabled by default, while BricsCAD has it enabled by default). From the comparison Results, GstarCAD demonstrates superior performance across all tests, particularly in frequently used operations like saving, deleting, and mirroring, showing efficiency improvements exceeding 60%. This makes it particularly suitable for high-frequency editing scenarios. The current version of GstarCAD shows significant performance advantages in these core operations.

- Basic File Operations

GstarCAD maintains leadership in basic file operations:

19% faster in opening drawing

69% faster in saving

45% faster in regeneration

The advantage of saving is more obvious, requiring only one-third the time of that of BricsCAD.

- Objects Editing Performance

GstarCAD excels in objects operations:

89% faster in zooming all

51% faster in selecting all

90% faster in deleting

55% time saving in moving

- Interactive Response Efficiency

GstarCAD dominates in routine editing scenarios:

44% faster for Undo operation

38% faster for Redo operation

CTRL + C speed enhanced by 66%

Across all 11 test metrics, GstarCAD's performance advantages range from a minimum 19% (when opening pictures) to a maximum 90% faster (Deleting operation).

5.2. Speed Comparison Table

Test items	BricsCAD 2025 (average)	GstarCAD 2026 (average)
Open	5.14s	4.15s
Save	2.83s	0.89s
Regen	1.56s	0.86s
Zoom All	0.53s	0.06s
Select All	2.8s	1.37s
Delete	16.21s	1.63s
Move	13.25s	5.94s
Undo	6.45s	3.6s
Redo	11.41s	7.07s
Mirror	16.93s	5.1s
CTRL + C	20.88s	7.05s

6. Compatibility Comparison

In terms of file compatibility, the two softwares support the basic same formats, covering the mainstream drawing formats. But for the secondary development interfaces, BricsCAD does not support as many interface programs as GstarCAD.

Comparison table of the main compatible file formats and secondary development interfaces between GstarCAD 2026 and BricsCAD 2025

6.1. File Format Support

Format	BricsCAD 2025	GstarCAD 2026
Open DWG	√	√
Open DXF	√	√
Open DWS	√	√
Open DWT	√	√
Open DGN	√	X
Open Rhino file (.3dm)	√	X
Open SketchUp File	√	X
Print Style Sheet File CTB / STB	√	√
Open IFC file (.ifc)	√	√
Open Revit file (.rvt/.rfa)	√	√
Open STEP (.step/.stp/.ste)	X	√
Open IGES (.iges/.igs)	X	√
Open third - party drawings (.3ds/.dae/.fbX/.obj/.ply/.stl)	√	√
CUI / CUIX Files	√	√
Old menu file MNU	√	√
Sheet Set File DST	√	√
Hatch file PAT file	√	√
Font File SHX	√	√
Line type file LIN	√	√
Export DWG	√	√
Export DXF	√	X
Export DWT	√	X
Inport and export metafile (.wmf)	√	√

Import and export Collada files (.dae)	✓	X
Import OBJ file (.obj)	✓	X
Import and export Rhino files (.3dm)	✓	X
Import SketchUp files (.skp)	✓	X
Import and export ACIS files (.sat)	✓	✓
Import 3D Studio File (.3ds)	X	✓
Import and export DWF / DWFX files (.dwf / .dwfX)	X(import not supported)	✓
Import and export DGN files (.dgn)	✓	X(export not supported)
Import PDF file (.pdf)	X	✓
Import and export SVG files (.svg)	X(import not supported)	✓
Import and export IFC files (.ifc)	✓	✓
Import Revit files (.rvt / .rfa)	✓	✓
Import STEP (. step / . stp / . ste)	X	✓
Import IGES (.iges / .igs)	X	✓
Export emf	✓	✓
Export .stl	✓	✓
Export .eps	X	✓
Export .bmp	✓	✓
Export FBX file	✓	X

6.2. Secondary Development Interface Support

The secondary development interface in GstarCAD has stronger compatibility and has built a mature industry plug-in ecosystem to reduce enterprise migration costs.

Secondary development interface	Interface	BricsCAD 2025	GstaCAD 2026
	LISP	√	√
	VBA	√	√
	.COM	√	√
	.NET	√	√
	ARX	√(Compatible with BRX)	√(Compatible with GRX)
	Python	X	√

7. User Experience and Interface Design

In general, GstarCAD is more suitable for AutoCAD migration users and small and medium-sized enterprises due to its flexible interface, deep compatibility and localized services; BricsCAD is good at AI prediction and cross-platform capabilities, but requires Higher learning cost. The differentiated positioning of the two provides complementary choices for different user groups.

● Interface Layout and Personalization

GstarCAD provides a three modular interface (Classic\2D Drafting\3D modeling), supports free interface switching, and allows users to customize the quick access bar, theme color and workspace layout, and provides dark/ light themes to relieve visual fatigue.

● Operating Habits Adaptability

GstarCAD is fully compatible with AutoCAD operating logic. The command aliases, shortcut keys and file systems are consistent with AutoCAD, which achieves zero-cost migration.

Although BricsCAD retains the core command structure of AutoCAD , its layer management, command names and spellings are quite different from mainstream CAD, and users need to be deeply familiar with them before they can efficiently configure the drawing environment.

● Multi-terminal Compatibility

GstarCAD is compatible with Windows/Linux/Android/iOS/ HarmonyOS (Chinese version) systems to achieve cross-terminal cloud collaborative design. BricsCAD supports Windows/macOS/Linux, but has limited support for mobile terminals.

In terms of file compatibility, GstarCAD perfectly supports dynamic blocks and Asian large font parsing, while BricsCAD loses dynamic properties when opening dynamic block drawings sometimes.

● Core Performance and Functional

Compared with mainstream CAD products, such as GstarCAD, BricsCAD still weeks in compatibility and functionality. In the comparison of twelve operational performances with GstarCAD 2026, the overall opening and response speed are behind GstarCAD.

8. Cloud Collaboration

Bricsys is a 24/7 document collaboration platform based on a universal cloud environment, focusing on document automation process management, supporting role permission allocation and task status tracking.

Based on the self-controllable CAD kernel, GstarCAD365 builds an integrated "cloud + multi-terminal" architecture to realize the cross-terminal flow of design data from modeling, collaboration to manufacturing, and supports native adaptation of web/PC/mobile terminals.

	Bricsys 24/7	GstarCAD 365
core position	Focusing on cloud document management and workflow automation, it provides role-based permission control, graphical process editing, automatic task allocation and real-time status tracking, emphasizing standardized process compliance, and is suitable for Used in industries that require strict control, such as construction and engineering	With "cloud + multi-terminal" as the core, it integrates cross-terminal collaborative design, cloud annotation , version control, instant messaging and other functions, supports lightweight processing of 2D/3D models, and covers the entire design, construction, operation and maintenance Process, adapting to multiple fields such as engineering and mechanical manufacturing
Collaboration With the text File Management	Automatic workflows are triggered through folders, tasks are assigned by role and support time-driven upgrade rules to ensure document circulation efficiency; permission control is refined to the role level, which is suitable for large-scale projects with	Supports simultaneous annotations (clouds, text, etc.) by multiple people without modifying the original DWG file ; provides drawing version comparison, rollback, and automatic change notification, with built-in historical tracing function to ensure that the collaboration process is auditable

	multiple Role Collaboration	
Deploy With An All	Based on public cloud deployment, emphasizing unlimited number of users and standardized process security	Provides public cloud and private cloud dual modes, supports local server isolation deployment, implements fine-grained permissions and behavior audits, meets the high safety requirements of data storage, and GstarCAD owns independent and controllable core technologies
Cross-end End Ecosystem	Relying on web and desktop collaboration, ecological compatibility is unclear	It integrates web, mobile terminal and Windows client to support seamless collaboration of GstarCAD series software, covering the whole scene of design, drawing viewing and annotation, and adapting to the needs of remote and on-site collaboration.

Bricsys 24/7 is driven by standardized processes and excels in automated process management, but lacks native 3D processing capabilities and localized deployment solutions, making it more suitable for cross-project collaboration. GstarCAD 365 has differentiated advantages in localization adaptation, 3D collaboration depth, and data security, making it particularly suitable for enterprises with strict requirements on data sovereignty and engineering teams that need cross-terminal collaboration.

9. GstarCAD Innovative Features

GstarCAD has customized a large number of unique functions according to user needs.

The innovative features of GstarCAD:

Features	Description
Align Tool (ALIGNTOOL)	Allows you to align the selected objects along the X or Y axis coordinates.
ACAD Tool Palettes Import Tool	Import AutoCAD© customized Tool palettes in the WINDOWS Start menu easily.
Area Sum (AREASUM)	Displays the current closed region value and area sum sequence in command line.
Area Table (AREATABLE)	Dimensions and counts the area of an enclosed object and exports the result to a table in the current drawing area.
Arrange Tool (ARRANGETOOL)	Aligns multiple objects left, right, top, bottom, center, vertical or laterally.
Attribute Increment (ATTINC)	Attributes values increment automatically or manually according to specified method.
Auto Layer (AUTOLAYER)	Customizes and predefines the associated layer of a command to streamline drafting workflow.
AUTOXLSTABLE	Allows to insert excel, and static block quantity, area and length and auto update the data according to the changes of the object.
Barcode (BARCODE)	Allows inserting the barcode to objects to corresponding paper documents and electronic drawing file.
Batch Print(BP)	Batch prints the drawing frames by pages.
Batch Purge (BATPURGE)	Batch purges the redundant blocks, layers, linetype, dimensions and text, etc in drawings.

Block Break (BLOCKBREAK)	Allows you to wipeout or break an object that is overlapped by a reference block.
Break Object (BREAKOBJECT)	Breaks the intersected lines and allows you to set the gap value.
CAD table to EXCEL (GC_CTE)	Converts sheets, composed by line/Spline and text/Mtext in CAD, to EXCEL.
Change Base (CHANGEBASE)	Modifies the base point position of the block.
Change Text (CHANGETEXT)	Modifies several texts simultaneously.
CIRCLE(C) Parameter	CIRCLE(C) parameter; Draws multiple concentric circles with one radius.
Collaboration	The GstarCAD Collaboration Tool is an embedded plugin available for GstarCAD platform aimed to help CAD designers work together among a single referenced drawing file at the same time, control drawing revisions and manage medium, big or complex projects with ease and reliability, reducing communication barriers across different industries.
Define Layout Viewport from Model Space(M2LVPORT)	Creates a viewport on layout space by selecting objects in the model space.
Dimension Coordinate (DIMCORD)	Marks X, Y coordinate values of the point.
Distance from Endpoint Snap	Allows to snap a certain distance from any endpoint of objects and the distance value can be modified at status bar at any time.
Divide Segments Snap	Allows snap the divided segment points of objects and the divided segment number can be modified at any time.
Export Coordinate (COEXPORT)	Exports the coordinate of the picking point to txt or xls files.
FILLET(I) Invert Parameter	Creates a reverse fillet by this option.
Frame Automatically	Automatically searches for the frame, calculates according to the

(FRAMEAR)	frame size, and arranges multiple drawings on a large-format drawing reasonably.
Free Scale (FREESCALE)	Scales an object without restrictions under three modes; Non-Uniform, Rectangle and Free.
Freeze Other Layer (LAYFRZOTHER)	Freezes other layers except the layer where the selected object is located.
Graphic Compare (OCMP)	Compares graphic of two groups of objects or two files.
GstarCAD tools (12 functions)	Allows you to quickly draw the industry drawings with GstarCAD tools
Import HPGL/2 (IMPORTHPGL)	Imports a PLT files.
Get Selection by Block Name (GETBLKSEL)	Multi-selects objects with the same name in specified area.
Get Selection by Object Type (GETENTSEL)	Multi-selects objects with the same entity type in specified area.
Get Selection by Layer (GETLAYSEL)	Selects all the objects in specified layer and specified region at one time.
Get Selection by Color (GETCOLSEL)	Quick selects the objects with the same color.
Get Selection by Object/Layer (GETENTLAYSEL)	Selects entities by entity type and layer.
Get Selection by Object/Color (GETENTCOLSEL)	Selects entities by entity type and color.
Get Selection by Layer/Color	Selects entities by color and layer.

(GETLAYCOLSEL)	
Dimension Coordinate Position (HCZZBD)	Dimensions the coordinate position.
Layer Draw Order (LAYDRAWORDER)	Changes the order of the layers by bringing to front or sending to back.
Lock Other Layers (LAYLCKOTHER)	Locks other layers except the layer where the selected object is located.
Layer Unlock All (LAYULKALL)	Unlocks all layers.
Off Other Layers (LAYOFFOTHER)	Turns off other layers except the layer where the selected object is located.
Magnifier (MAGNIFIER)	Views a specific area of your drawing as a magnifier with the capability of snap points without performing zoom in/out on big drawings.
OFFSET(B) Both Sides	Offsets to both side, no need to operate twice.
Outline (OUTLINE)	Generates the outline by clicking the closed region.
Pline Boolean (GC_BOOLOP)	Operates the closed pline with union, intersection and subtraction.
Print PLT(PRINTPLT)	Prints the generated PLT file.
QR Code(QRCODE)	Extracts data or inputs data to generate QRcode which can be scanned by mobile device to obtain data.
Rapid Distance (RAPIDDIST)	Measures distance and angle between 2D objects along X, Y axis rapidly by moving mouse.
RECTANGLE(O) Parameter	RECTANGLE(O) parameter, Draws an rotate rectangle with (O)option
Region Scale (REGSCALE)	Selects a region of a drawing to be cut and copied to a new location.

ROTATE(Multiple)Parameter	Copies many objects with different rotate angles, or draw circles array.
Shortcut Customization (CUSTACC)	Customizes the shortcut key.
Spline to Pline (Sptpl)	Converts spline to polyline according to the accuracy (number of segments of the arc) that the user assigns.
Statistics Summation (KLL01)	Sums up the selected text or Mtext.
Symmetric Draw	Directly draws symmetrical shapes, it can omit the operation of the mirror.
Text Incremental Copy (GC_dztext)	Accomplishes kinds of incremental methods for text.
Text Align (TEXTALIGN)	Aligns text along X or Y coordinates, or along a line of specific direction.
Text Match (TEXTMATCH)	Matches both text and Mtext attributes in the current drawing, avoiding select and edit text attributes one by one.
Text Online (TEXTONLINE)	Distributes the text uniformly along a selected spline, polyline or arc. It can also create text online quickly for multiple curves.
Total Length (MEASUREGEOM)	Inquire total length of the selected lines.
WIPEOUT (supports circle and arc)	Generates wipeout by clicking circle or a pline object contains arcs.
.....	

GstarCAD innovative features enhance your drawing efficiency greatly.

10. Conclusion

GstarCAD is far ahead of BricsCAD in compatibility and basic CAD functions. It provides users with a better experience interface, functions, and flexible licensing. GstarCAD provides users with a simpler and more user-friendly drawing environment with complete basic functions. It also continuously develops innovative features to enhance designers work efficiency. GstarCAD is a better choice.



GstarCAD 2026

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