

GstarCAD 2025 VS AutoCAD 2025



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GstarCAD 2025 VS AutoCAD 2025

GstarCAD 2025 elevates performance to a new level with Hardware Acceleration and other improvements, significantly enhancing the design experience. Exciting new features include Parametric Constraints, BIM Data Editing, and Voice Annotation, etc., which further enrich functionality. Moreover, compatibility has been expanded with the addition of Python support, empowering more robust customization and automation. Without further ado, let's explore these exciting updates!

1. Product Comprehensive Comparison

Comparison Environment

Product name	AutoCAD 2025	GstarCAD 2025		
Software version	AutoCAD2025 (Windows 64-bit)	GstarCAD2025 (BUILD240603-64Bit)		
System environment	Windows 11 Home version 23H2 10.0.22631.3593			
Hardware environment (processor)	11th Gen Intel ® Core™ i7-1165G7@2.80GHz			
Hardware environment (graphics card)	NVIDIA GeForce MX450 2GB			
Hardware environment (RAM)	16GB (8+8) DDR4 3200MHz			

1.1. Compatibility Comparison

- Graphics File Compatibility: GstarCAD 2025 can fully achieve bidirectional compatibility with AutoCAD2025 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 2025 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 2025, providing more possibilities for the software secondary development ecosystem.

Compatibility	AutoCAD 2025		GstarCAD 2025	
Company	Import	Export	Import	Export
DWG/DFX 2.5-2018	\checkmark	\checkmark	\checkmark	\checkmark
Template file (*.dwt)	\checkmark	/	\checkmark	/
Standard file (*.dws)	\checkmark	/	\checkmark	/
Interface files (*.cui/*.cuix)	\checkmark	/	\checkmark	/
Old menu files (*.mnu)	\checkmark	/	\checkmark	/
Sheet set files (*.dst)	\checkmark	/	\checkmark	/
Hatch file (*.pat)	\checkmark	/	\checkmark	/
Font files (*.shx)	\checkmark	/	\checkmark	/
Linetype files (*.lin)	\checkmark	/	\checkmark	/
Alias file (*.pgp)	\checkmark	/	\checkmark	/
Script file (*.scr)	\checkmark	/	\checkmark	/
Print style table files (*.ctb/*.stb)	\checkmark	/	\checkmark	/
LISP development interface	\checkmark	/	\checkmark	/
VBA development interface	\checkmark	/	\checkmark	/
Arx-like development interface	\checkmark	/	\checkmark	/
.net development interface	\checkmark	/	\checkmark	/
Python development interface	×	/	\checkmark	/
IFC2x3/IFC4 (*.ifc)	×	×	\checkmark	\checkmark

Revit (*.rvt)	×	×	\checkmark	×
Step (*.stp *.step)	\checkmark	\checkmark	\checkmark	\checkmark
lges (*.igs *.iges)	\checkmark	×	\checkmark	\checkmark
Catta v4/v5	\checkmark	/	×	/
Inventor (*.ipt *.iam)	\checkmark	/	×	/
Jt (*.jt)	\checkmark	/	×	/
Parasolid binary/text files	\checkmark	/	×	/
Pro/engineer granite/neutral	\checkmark	/	×	/
Rhino (*.3dm)	\checkmark	/	(Under development)	/
Solidworks (*.prt *.sldprt *.asm *.sldasm)	\checkmark	×	×	×
Acis (*.sat)	\checkmark	\checkmark	\checkmark	\checkmark
Others (*.dea *.fvx *.obj *.ply *.stl)	×	×	\checkmark	×
3D DWF/DWFX (*.dwf *.dwfx)	/	\checkmark	/	\checkmark
Metafile (*.wmf)	/	√	/	√
Enhanced metafile (*.emf)	/	×	/	\checkmark
3D model file format (*.stl)	/	\checkmark	/	\checkmark
Package ps (*.eps)	/	\checkmark	/	√
Dxx extract (*.dxx)	/	√	/	√
Bitmap (*.bmp)	/	\checkmark	/	\checkmark

DGN v7/v8 (*.dgn)	/	\checkmark	/	×
Vectorgraph (*.svg)	/	×	/	\checkmark

1.2. Performance Comparison

	TESTFILE01(48.8MB)		TESTFILE02 (114MB)	
Test items	AUTOCAD 2025	GstarCAD 2025 Plus	AUTOCAD 2025	GstarCAD 2025 Plus
	Average value	Average value	Average value	Average value
Open	5.77	4.23	5.55	5.35
save	3.81	3.66	4.73	6.52
Regen	1.91	1.89	2.14	1.36
Zoom All	0.8	0.51	1.21	0.6
Select all	0.6	0.47	1.63	0.4
delete	1.84	0.88	1.34	0.97
move	15.79	5.51	13.28	9.69
Revocation	6.88	4.47	11.15	12
recover	7.03	4.79	16.24	12.31
Mirror	15.74	5.35	12.82	9.30
CTRL+C	51.82	39.95	104.57	26.88
Paste to original	50.64	49.63	169.60	49.15

1.3. Features Comparison

1.3.1. Basic Features Comparison

Among the 221 commonly used commands of AutoCAD2025, the functions related to 2D drawing are basically 100% covered by GstarCAD. AutoCAD2025 and GstarCAD 2025 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 2025	Remark	GstarCAD 2025 Innovative Features
		Α	1	
A	ARC / Creates an arc	\checkmark		ALIGNTOOL Quick Align the Objects
ADC	ADCENTER / Manages and inserts objects such as blocks, xrefs, and hatch patterns	\checkmark		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	\checkmark		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	\checkmark		
AR	ARRAY / Creates multiple copies of an object in an array	\checkmark		
ARR	ACTRECORD / Starts the action recorder	×	Action Recorder	
ARM	ACTUSERMESSAGE / Inserts a user message into an action macro	×	Related Functions	

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	\checkmark	
ATT	ATTDEF / Redefines a block and updates associated attributes	\checkmark	
ATE	ATTEDIT / Changes attribute information in a block	\checkmark	
		В	
В	BLOCK / Creates a block definition from selected objects	\checkmark	BARCODE Creates barcodes from text
BC	BCLOSE / Close the block editor	\checkmark	BATPURGE Cleans up redundant objects in batches
BE	BEDIT / Opens a block definition in the Block Editor	\checkmark	
ВН	BHATCH / Fills an enclosed area or selected objects with a hatch pattern, solid fill or gradient fill	\checkmark	
во	BOUNDARY / Creates a region or polyline from a closed area	\checkmark	
BR	BREAK / Breaks the selected objects between two points	\checkmark	
BS	BSAVE / Saves the current block definition	\checkmark	

	BVSTATE / Creates, sets, or deletes			
BVS	the visibility state of a dynamic	\checkmark		
	block.			
		С		
				CAREA
С	CIRCLE / Creates a circle	\checkmark		Exports the area to Excel
			CAMERADISPLAY	
	CAMERA / Sets the camera position and target position to create and		CAMERAHEIGHT	COLSS
CAM	save a 3D perspective view of an object.	×/	There are related system variables but they are not effective.	Selects all entity sets with the same color
CBAR	CONSTRAINTBAR / Toolbar-like UI element that displays the available geometric constraints on an object	\checkmark		CHLA Transforms the wall line of the specified line
СН	PROPERTIES / Controls the properties of existing objects	\checkmark		
СНА	CHAMFER / Adds a chamfer to an object	\checkmark		
СНК	CHECKSTANDARDS / Checks the current drawing for standards violations	×	Check for standards violations	
CLI	COMMANDLINE / Displays the command line window	\checkmark		
COL	COLOR / Sets the color of new objects	\checkmark		
CO	COPY / Copies an object at a specified distance in a specified direction	\checkmark		

CT	CTABLESTYLE / Sets the name of the current table style	\checkmark		
CUBE	NAVVCUBE / Controls the visibility and display properties of the ViewCube tool	\checkmark		
CYL	CYLINDER / Creates a solid 3D cylinder	\checkmark		
		D		
D	DIMSTYLE / Create and modify dimension styles	\checkmark		DYJT/REGSCALE Selects a region of a drawing to be cut and copied to a new location.
DAN	DIMANGULAR / Creates an angular dimension	\checkmark		
DAR	DIMANGULAR / Creates an arc length dimension	\checkmark		
DBA	Creates a linear, angular, or ordinate dimension from the baseline of the previous or selected dimension.	\checkmark		
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	\checkmark		
DCO	DIMCONTINUE / Creates a dimension that begins at the extension line of the last dimension created	\checkmark		

DCON	DIMCONSTRAINT / Applies dimensional constraints to selected objects or points on objects	×	Dimensional constraints	
DDA	DIMDISASSOCIATE / Removes associativity from selected dimensions	\checkmark		
DDI	DIMDIAMETER / Creates a diameter dimension for a circle or arc	\checkmark		
DED	DIMEDIT / Edits dimension text and extension lines	\checkmark		
DI	DIST / Measures the distance and angle between two points	\checkmark		
DIV	DIVIDE / Creates evenly spaced point objects or blocks along the length or perimeter of an object.	\checkmark		
DJL	DIMJOGLINE / Adds or removes a jog line on a linear or aligned dimension	\checkmark		
DJO	DIMJOGGED / Creates jog dimensions for circles and arcs	\checkmark		
DL	DATALINK / Displays the Data Link dialog box	\checkmark		
DLU	DATALINKUPDATE / Updates data to or from an established external data link	\checkmark		
DO	DONUT / Creates a solid circle or wider ring	\checkmark		
DOR	DIMORDINATE / Creates a coordinate dimension	\checkmark		

DOV	DIMOVERRIDE / Controls overrides of system variables used in selected dimensions.	\checkmark	
DR	DRAWORDER / Changes the draw order of images and other objects	\checkmark	
DRA	DIMRADIUS / Creates a radial dimension for a circle or arc	\checkmark	
DRE	DIMREASSOCIATE / Associates or reassociates selected dimensions to an object or point on an object	\checkmark	
DRM	DRAWINGRECOVERY / Displays a list of drawing files that can be recovered after a program or system failure.	\checkmark	
DS	DSETTINGS / Sets grid and snap, polar and object snap tracking, object snap modes, Dynamic Input, and Quick Properties.	\checkmark	
DT	TEXT / Creates a single-line text object.	\checkmark	
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.	\checkmark	
		E	
E	ERASE / Removes objects from a drawing.	\checkmark	ENTSS Selects similar objects

ED	DDEDIT / Edits single-line text, dimension text, attribute definitions, and feature control frames.	\checkmark	ETT Real-time display of the final positioning of the extension effect
EL	ELLIPSE / Creates an ellipse or an elliptical arc.	\checkmark	
EPDF	EXPORTPDF / Exports drawing to PDF.	\checkmark	
ER	EXTERNALREFERENCES / Opens the External References palette.	\checkmark	
EX	EXTEND / Extends objects to meet the edges of other objects.	\checkmark	
EXIT	QUIT / Exits the program.	\checkmark	
EXP	EXPORT / Saves the objects in a drawing to a different file format.	\checkmark	
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.	\checkmark	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.	\checkmark	
FS	FSMODE / Creates a selection set of all objects that touch the selected object.	\checkmark	

FSHOT	FLATSHOT / Creates a 2D representation of all 3D objects based on the current view.	\checkmark			
		G			
G	GROUP / Creates and manages saved sets of objects called groups.	\checkmark			GC_BOOLOP 2D Boolean operations
GCON	GEOCONSTRAINT / Applies or persists geometric relationships between objects or points on objects.	\checkmark			
GD	GRADIENT / Fills an enclosed area or selected objects with a gradient fill.	\checkmark			
GEO	GEOGRAPHICLOCATION / Specifies the geographic location information for a drawing file.	×	Geographic information module	location GIS	
		Н			
Н	HATCH / Fills an enclosed area or selected objects with a hatch pattern, solid fill, or gradient fill.	\checkmark			HCBGE Draws a table consisting of lines
HE	HATCHEDIT / Modifies an existing hatch or fill.	\checkmark			
Н	HIDE / Regenerates a 3D wireframe model with hidden lines suppressed.	\checkmark			
		I			
1	INSERT / Inserts a block or drawing into the current drawing.	\checkmark			IFCIMPORT Imports IFC files

	IMAGEADJUST / Controls the image	N		IGSEXPORT		
	and fade values of images.	·		Exports IGS/IGES files		
IAT	IMAGEATTACH / Inserts a reference to an image file.	\checkmark				
ICL	IMAGECLIP / Crops the display of a selected image to a specified boundary.	\checkmark				
ID	ID / Displays the UCS coordinate values of a specified location.	\checkmark				
IM	IMAGE / Displays the External References palette.	\checkmark				
IMP	IMPORT / Imports files of different formats into the current drawing.	\checkmark				
IN	INTERSECT / Creates a 3D solid, surface, or 2D region from overlapping solids, surfaces, or regions.	\checkmark				
INF	INTERFERE / Creates a temporary 3D solid from the interferences between two sets of selected 3D solids.	\checkmark				
10	INSERTOBJ / Inserts a linked or embedded object.	\checkmark				
	J					
J	JOIN / Joins similar objects to form a single, unbroken object.	\checkmark				
JOG	DIMJOGGED / Creates jogged dimensions for circles and arcs.	\checkmark				
L						

L	LINE / Creates straight line segments.	\checkmark		LAYDRAWORDER Adjusts the order of graphics by layer		
LA	LAYER / Manages layers and layer properties.	\checkmark		LAYLCKOTHER Locks other layers		
LAS	LAYERSTATE / Saves, restores, and manages named layer states.	\checkmark		LAYOUTMERGE Merges Layouts		
LE	QLEADER / Creates a leader and leader annotation.	\checkmark				
LEN	LENGTHEN / Changes the length of objects and the included angle of arcs.	\checkmark				
LESS	MESHSMOOTHLESS / Decreases the level of smoothness for mesh objects by one level.	×	Mesh Object Smoothness			
LI	LIST / Displays property data for selected objects.	\checkmark				
LO	LAYOUT / Creates and modifies drawing layout tabs.	\checkmark				
LT	LINETYPE / Loads, sets, and modifies linetypes.	\checkmark				
LTS	LTSCALE / Changes the scale factor of linetypes for all objects in a drawing.	\checkmark				
LW	LWEIGHT / Sets the current lineweight, lineweight display options, and lineweight units.	\checkmark				
	M					

Μ	MOVE / Moves objects a specified distance in a specified direction.	\checkmark	MAGNIFIER Zooms in on a local area
MA	MATCHPROP / Applies the properties of a selected object to other objects.	\checkmark	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.	\checkmark	
MEA	MEASUREGEOM / Measures the distance, radius, angle, area, and volume of selected objects or sequence of points.	\checkmark	
MI	MIRROR / Creates a mirrored copy of selected objects.	\checkmark	
ML	MLINE / Creates multiple parallel lines	\checkmark	
MLA	MLEADERALIGN / Aligns and spaces selected multileader objects.	\checkmark	
MLC	MLEADERCOLLECT / Organizes selected multileaders that contain blocks into rows or columns, and displays the result with a single leader.	\checkmark	
MLD	MLEADER / Creates a multileader object.	\checkmark	
MLE	MLEADEREDIT / Adds leader lines to, or removes leader lines from, a multileader object.	\checkmark	
MLS	MLEADERSTYLE / Creates and modifies multileader styles.	\checkmark	

МО	PROPERTIES / Controls properties of existing objects.	\checkmark		
MORE	MESHSMOOTHMORE / Increases the level of smoothness for mesh objects by one level.	×	Mesh Object Smoothness	
MS	MSPACE / Switches from paper space to a model space viewport.	\checkmark		
MSM	MARKUP / Opens the Markup Set Manager.	×	Mark input and labeling assistance	
MT	MTEXT / Creates a multiline text object.	\checkmark		
MV	MVIEW / Creates and controls layout viewports.	\checkmark		
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	
NVIEW	NEWVIEW / Creates a named view with no motion.	×		
		0		
0	OFFSET / Creates concentric circles, parallel lines, and parallel curves.	\checkmark		OCMP Compares the selected graphic in a drawing or compare the graphic between two drawings

OFFSETSRF	SURFOFFSET/ Creates a parallel surface a specified distance from the original surface.	\checkmark		OUTLINE Generates the outer boundary of the specified graphic
OP	OPTIONS / Customizes the program settings.	\checkmark		
ORBIT / 3DO	3DORBIT / Rotates the view in 3D space, but constrained to horizontal and vertical orbit only.	\checkmark		
OS	OSNAP / Sets running object snap modes.	\checkmark		
		Р		
Р	PAN / Adds a parameter with grips to a dynamic block definition.	\checkmark		PCHC Changes the color of the selected object or layer
РА	PASTESPEC / Pastes objects from the Clipboard into the current drawing and controls the format of the data.	\checkmark		PICKMIRRDRAWAXIS Picks the axis of symmetry
PAR	PARAMETERS / Controls the associative parameters used in the drawing.	×	DimensionalConstraintModuleParameter Manager	
PARAM	BPARAMETER / Adds a parameter with grips to a dynamic block definition.	\checkmark		
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.	\checkmark		

PE	PEDIT / Edits polylines and 3D polygon meshes.	\checkmark	
PL	PLINE / Creates a 2D polyline.	\checkmark	
PO	POINT / Creates a point object.	\checkmark	
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.	\checkmark	
PON	SHOWPALETTES / Restores the display of hidden palettes.	×/	SHOWPALETTESTATE There are related system variables but they are not effective
PR	PROPERTIES / Displays Properties palette.	\checkmark	
PRE	PREVIEW / Displays the drawing as it will be plotted.	\checkmark	
PRINT	PLOT / Plots a drawing to a plotter, printer, or file.	\checkmark	
PS	PSPACE / Switches from a model space viewport to paper space.	\checkmark	
PSOLID	POLYSOLID / Creates a 3D wall-like polysolid.	\checkmark	
PU	PURGE / Removes unused items, such as block definitions and layers, from the drawing.	\checkmark	
PYR	PYRAMID / Creates a 3D solid pyramid.	\checkmark	
		Q	

QC	QUICKCALC / Opens the QuickCalc calculator.	\checkmark		QRCODE Generates QR code	
QCUI	QUICKCUI / Displays the Customize User Interface Editor in a collapsed state.	\checkmark			
QP	QUICKPROPERTIES / Displays open drawings and layouts in a drawing in preview images.	\checkmark			
QSAVE	QSAVE / Saves the current drawing.	\checkmark			
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.	\checkmark		RTCUR Real-time cursor rotation
RA	REDRAWALL / Refreshes the display in all viewports.	\checkmark		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.	\checkmark		
REA	REGENALL / Regenerates the drawing and refreshes all viewports.	\checkmark		
REC	RECTANG / Creates a rectangular polyline.	\checkmark		
REG	REGION / Converts an object that encloses an area into a region object.	\checkmark		
REN	RENAME / Changes the names assigned to items such as layers and dimension styles.	\checkmark		
REV	REVOLVE / Creates a 3D solid or surface by sweeping a 2D object around an axis.	\checkmark		
RO	ROTATE / Rotates objects around a base point.	\checkmark		
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.	\checkmark		

	RENDERWIN / Displays the Render			
RW	window without starting a render	×	3D render module	
	operation.			
	L	S	L	
				SASCL
S	STRETCH / Stretches objects crossed	\checkmark		
	by a selection window or polygon.			Sets the drawing scale and
				automatically adapt
	SCALE / Enlarges or reduces selected			SETLAYER
SC	objects, keeping the proportions of the	\checkmark		Makes the object laver the
	object the same after scaling.			current laver
				SPLINEZLINE
SCR	SCRIPT / Executes a sequence of	\checkmark		Fitters a spline curve to
	commands from a script file.			multiple straight line
				segments
	SECTION / Uses the intersection of a			
SEC	plane and solids, surfaces, or mesh to	\checkmark		
	create a region.			
SFT	SETVAR / Lists or changes the values	\checkmark		
021	of system variables.	Ť		
SHA	SHADEMODE / Starts the			
	VSCURRENT command			
	SLICE / Creates new 3D solids and			
SL	surfaces by slicing, or dividing,	\checkmark		
	existing objects.			
SN	SNAP / Restricts cursor movement to	\checkmark		
	specified intervals.			
SO	SOLID / Creates solid-filled triangles	√		
	and quadrilaterals.	*		
SP	SPELL / Checks spelling in a drawing.	\checkmark		

SPE	SPLINEDIT / Edits a spline or splinefit polyline.	\checkmark		
SPL	SPLINE / Creates a smooth curve that passes through or near specified points.	\checkmark		
SPLANE	SECTIONPLANE / Creates a section object that acts as a cutting plane through 3D objects.	\checkmark		
SPLAY	SEQUENCEPLAY / Plays named views in one category.	\checkmark		
SPLIT	MESHSPLIT / Splits a mesh face into two faces.	×		
SSM	SHEETSET / Opens the Sheet Set Manager	\checkmark		
ST	STYLE / Creates, modifies, or specifies text styles.	\checkmark		
STA	STANDARDS / Manages the association of standards files with drawings.	×	Standards Check Module	
SU	SUBTRACT / Combines selected 3D solids, surfaces, or 2D regions by subtraction.	\checkmark		
		Т		
т	TEXTALIGN / Aligns multiple text	V		TXTHEI
	obliquely.			Modifies string height
TA	TABLE / Creates an empty table object.	\checkmark		
ТВ	TEXTEDIT / Edits a dimensional constraint, dimension, or text object.	\checkmark		

TED	THICKNESS / Sets the default 3D thickness property when creating 2D geometric objects.	\checkmark	
TH	TILEMODE / Controls whether paper space can be accessed.	\checkmark	
TI	TOOLBAR / Displays/hides, and customizes toolbars.		
TOL	TOLERANCE / Creates geometric tolerances contained in a feature control frame.	\checkmark	
TOR	TORUS / Creates a donut-shaped 3D solid.		
ТР	TOOLPALETTES / Opens the Tool Palettes window.	\checkmark	
TR	TRIM / Trims objects to meet the edges of other objects.	\checkmark	
TS	TABLESTYLE / Creates, modifies, or specifies table styles.	\checkmark	
		U	
UC	UCSMAN / Manages defined user coordinate systems.	V	UNLOCK Restores object lock status
UN	UNITS / Controls coordinate and angle display formats and precision.	\checkmark	
UNHIDE / UNISOLATE	UNISOLATEOBJECTS / Displays objects previously hidden with the ISOLATEOBJECTS or HIDEOBJECTS command.	\checkmark	
UNI	UNION / Unions two solid or two region objects.	\checkmark	
		۷	

V	VIEW / Saves and restores named views, camera views, layout views, and preset views.	\checkmark		
VGO	VIEWGO / Restores a named view.	×	VIEWCUBE module advanced functions	
VP	DDVPOINT / Sets the 3D viewing direction.	\checkmark		
VPLAY	VIEWPLAY / Plays the animation associated to a named view.	×	VIEWCUBE module advanced functions	
VS	VSCURRENT / Sets the visual style in the current viewport.	\checkmark		
VSM	VISUALSTYLES / Creates and modifies visual styles and applies a visual style to a viewport.	\checkmark		
		W		
W	WBLOCK / Writes objects or a block to a new drawing file.	\checkmark		WZDD/TXTBREAK Breaks text at specified position
WE	WEDGE / Creates a 3D solid wedge.	\checkmark		
WHEEL	NAVSWHEEL / Displays a wheel that contains a collection of view navigation tools.	×	2D navigation control panel	
		Х		
Х	EXPLODE / Breaks a compound object into its component objects.	\checkmark		XEDGES Creates a wireframe by extracting edges from a 3D solid or surface
ХА	XATTACH / Inserts a DWG file as an external reference (xref).	\checkmark		

ХВ	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.	\checkmark	
XL	XLINE / Creates a line of infinite length.	\checkmark	
XR	XREF /StartstheEXTERNALREFERENCES command.	\checkmark	
		Z	
7	ZOOM / Increases or decreases the		ZC/SUPERAXON
_	current viewport.	v	Converts a plan view to an axonometric view
ZEBRA	ANALYSISZEBRA / Projects stripes onto a 3D model to analyze surface continuity.	×	Converts a plan view to an axonometric view

1.3.2. Key Features Comparison

Modules	Function	Description	GstarCAD 2025	Remark
	Array	Create and modify objects in circular or rectangular arrays or along a path.	\checkmark	
	Center Marks and Center Lines	Create and edit centerlines and center marks that move automatically when you move associated objects.	×	CENTERDISASSOCIATE CENTERLINE CENTERMAR CENTERREASSOCIATE CENTERRESET Invalid command
2D Sketches/Graphics /Annotations	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.	\checkmark	
	Dimensions	Automatically create dimensions. Hover your cursor over a selected object to see a preview before creating it.	\checkmark	
	Dynamic Blocks	Add flexibility and intelligence to block references, including changing shape, size, or configuration.	\checkmark	

Fields	Use a field in a text object to display text that automatically updates when the field value changes.	\checkmark	
Layout	Specify drawing size, add title blocks, and display multiple views of the model.	\checkmark	
Leader	Create leaders with a variety of resources, including text or blocks. Easily format leaders and define styles.	\checkmark	
Parametric constraints	Apply geometric and dimensional constraints to maintain relationships between geometries.	×	Dimension constraints Currently unsupported
Purge	Remove multiple unwanted objects at once with simple selection and object preview.	\checkmark	
Revision Cloud	Draw revision clouds for the latest changes in a drawing to quickly identify updates.	\checkmark	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.	\checkmark	
Text Settings	Create single-line or multiline text (mtext) as a single text object. Easily format text, columns, and borders.	\checkmark	

	View	Save views by name and easily return to a specific view for quick reference or to apply to a layout viewport.	\checkmark	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.	×	3DCLIP3D DISTANCE3DFLY3DFAN3DSWIVEL3DWALK3DZOOMANIPATHWALKFLYSETTINGSCommands unsupported.SupportNAVI (View)cube
	Model Documentation	Generate 2D drawings from 3D models, including basic views, projection views, section views, and detail views.	×	

			PCEXTRACTCENTERLINE
			PCEXTRACTCORNER
			PCEXTRACTEDGE
	Attach point cloud files acquired by		PCEXTRACTSECTION
Point Cloud	3D laser scanners or other		POINTCLOUDCOLORMAP
	technologies to use as a starting point for your design.	·	POINTCLOUDCROP
			POINTCLOUDUNCROP
			POINTCLOUDCROPSTATE
			Command does not support point cloud
	Apply lighting and materials to give		
Render	3D models a realistic appearance to help communicate your designs.	×	
Remote service	Render 3D models online without		
render	consuming processing power or disk space on your local computer.	×	
0	Create section planes using solids,	,	
Section plane	surfaces, meshes, or regions to display cross-sectional views.	V	
	Create realistic 3D models of your		
Solid, surface and mesh modeling	designs using a combination of solid, surface, and mesh modeling	\checkmark	
Ŭ	tools.		
Viewel Chul-	Apply visual styles to control the	[
visuai Styles	shading of 3D models.	V	

	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.	\checkmark	
	Geographic location and online maps	Insert geographic location information into a drawing and display a map in the drawing from an online mapping service.	×	
Collaboration	Referencing and importing models	Attach Navisworks model to your drawing as underlay, and import model from other applications.	\checkmark	
	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.	\checkmark	
	Save to Web and Mobile Devices	Save drawings from your desktop to view and edit in the web and mobile apps, including external references.	\checkmark	
	Shared View	Publish design views of your drawings in a web browser so stakeholders can review and comment on them.	\checkmark	
	Xref Compare	Compare two versions of a drawing, including external references (Xrefs).		

1.3.3. 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.

Off

•

8.8

6500

Dark

Warm

Render example with render environment and exposure settings tabs:



3D Render workflow:

Process	Related Commands
Create a 3D model containing the objects you want to render using 3D solids, surfaces, meshes, and 3D faces,	3DFACE, 3DMESH, BOX, CONE, CYLINDER, EDGESURF, EXTRUDE, LOFT, MESH, PFACE, PLANESURF, POLYSOLID, PRESSPULL, PYRAMID, REVOLVE, REVSURF, RULESURF, SPHERE, SURFBLEND, SURFNETWORK, SURFOFFSET, SURFPATCH,
	SWEEP, TABSURF , TORUS, WEDGE
Defines the view of the 3D model to render. Use named views to ensure consistency and make switching views easier.	VIEW
Specifies a background for the current view.	BACKGROUND, VIEW
Create a material to attach to a 3D object.	MATBROWSEROPEN, MATEDITOROPEN

Attach materials to 3D objects directly or through layers.	MATERIALASSIGN , MATERIALATTACH
Add user-defined lights or use default lights. Note: The LIGHTINGUNITS system variable must be set to 1 or 2. Enable image-based lighting to use as an alternative to default lighting, or to fill the entire scene with light and eliminate dark areas.	DISTANTLIGHT , FREESPOT , FREEWEB , LIGHT, POINTLIGHT , SPOTLIGHT, TARGETPOINT , WEBLIGHT , RENDEREXPOSURE
(Optional) Enable and define settings for sun- and sky-based lighting when render interior or exterior architectural scenes. Note: The LIGHTINGUNITS system variable must be set to 1 or 2.	SUNPROPERTIES
Set the Low render preset to current.	RENDERPRESETS
Render a region of a 3D model to test attached materials and lights.	RENDERCROP
Based on the results of the test render, adjust the materials and lighting in the scene.	
Set up render environment and exposure settings.	RENDEREXPOSURE
Create another test render; make any desired changes to materials, lights, and general render environment settings.	
Set the render preset with the highest desired render quality as current, and then create the final render image.	RENDER, RENDERPRESETS
Save the rendered image as a raster image file.	RENDER, SAVEIMG

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.



Generate an action macro at the specified path based on the actions recorded in the action tree , and then play the macro using one of the following methods:

- At the Command prompt, enter a name for the action macro.
- In the graphics window, right-click, choose Action Macros > Play, and select an action macro.
- On the ribbon, click the Manage tab > Action Recorder panel and select an action macro from the drop-down list. Then, click Play.

Smart Blocks: Placement

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

The block placement engine learns how existing block instances are placed in a drawing to infer the next placement of the same block. When you insert a block, the engine suggests placements that are close to similar geometry where you previously placed the block.

For example, if you have placed a chair block near a wall corner, when you insert another instance of the same chair block, AutoCAD automatically positions the chair as you move it closer to a similar corner point. As you move the block, the wall highlights, and the position, rotation, and scale of the chair block are adjusted to match the other block instances. You can click to accept a suggestion, press the Ctrl key to switch to a different suggestion, or move the cursor away to ignore the current suggestion. To temporarily turn off suggestions while placing a block, press Shift+W or Shift+[while inserting or moving the block .



Smart Block: Replace

Replaces a specified block reference by selecting from a palette of similar suggested blocks.

When you select a block reference to replace, the product suggests similar blocks for you to choose from.



• Autodesk Assistant (English, German, Japanese)

Autodesk Assistant is an Al-guided natural language search tool built into most Autodesk software products, including AutoCAD Help. It can use Al's natural language processing to retrieve more accurate information with simpler terms. As the number of users increases and the number of learning samples increases, Autodesk Assistant will provide more accurate results. When the answer cannot solve the problem, Autodesk Assistant can also contact technical support personnel directly from within the software.



• Compatible with Mac System

In October 2010, AutoCAD released AutoCAD2011, which supports Mac OS environment and is optimized for Mac environment, including multi-touch gestures, Cover Flow navigation, etc. Starting from AutoCAD2024/AutoCAD2024 LT, it natively supports Apple Silicon chips, solving the performance decrease problem under the ARM structure. According to the news release, the maximum performance can be increased by 2 times.

1.3.4. 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.

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Desktop			IFC File(*.ifc) Revit File(*.rvt,*.rfa) STED(*.etee *.ete.*.ete)				
۲		File name:	IGES(*.iges, *.igs) All DGN files(*.*)				Open
Motuork	~	Files of type:	Metafile(*.wmf)			\sim	Cancel
		Locate	Find File				

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.

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• 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.

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l	Notwork	¥	Files of type:	Metafile(*.wmf)			\sim	Cance	1
			Locate	Find File					

• Linux System Support

GstarCAD supports Linux system and GstarCAD 2025 for Linux version will be release soon. AutoCAD doesn't support Linux system.

1.3.5. AutoCAD 2025 New Features

• Smart Blocks: Search and Convert

AutoCAD 2025 offers more smart block solutions to streamline your design process. In this release, you can easily convert multiple instances of selected geometry into blocks.

When you select geometry for conversion, AutoCAD finds and highlights all instances of the same geometry. You can then choose to convert the selected geometry and the found instances into a block.



When converting to an existing block, you have several options. You can pick a block from the current drawing, a recently used block, or similar blocks in your block library identified by the machine learning algorithm.

Note: Machine learning-suggested blocks are only available in AutoCAD.

After selecting an existing block definition, you can adjust the scale and rotation to determine how the selected block definition replaces the found instances.



Alternatively, you can convert the source object or the selected instances to a new block. In the Convert dialog box, define a new block by specifying a block name and insertion point. By default, the insertion point is set to the center of the selected geometry.

Convert			×
Selection	Convert to		
Convert All (64)	Existing block	New block]
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	* 0"		
	Cancel	Convert	

The ability to quickly convert repetitive geometry into blocks minimizes redundancy in the design process and provides a wider range of options for organizing drawings.

• Smart Blocks: Object Detection (Technology Preview)

AutoCAD 2025 includes a technology preview that uses machine learning to scan your drawing for objects that can be converted into blocks.



When you start Object Detection, the drawing's geometry is sent to the AutoCAD machine learning service for recognition. Once the service has analyzed the drawing, the palette will notify you if any objects have been detected that can be converted to blocks. To further inspect and assess the identified instances, click Review Objects.



In review mode, the Detection toolbar is displayed at the top of the drawing window. This toolbar provides various options for navigating and managing detection results. The detection results are grouped into sets of similar objects. A *set* represents a group of similar detected objects that can be converted into instances of a single block.

Within each set, the *primary* instance (outlined by a blue border) serves as the block definition when converting into a new block. Alternatively, if you choose to convert into an existing block, the primary instance is used to define the insertion scale and rotation.



You may encounter incorrect sets or instances during detection review. In the following example, a similar object is not detected and included in the set. You can report this error using the Detection toolbar. By reporting errors, you contribute to improving the overall performance and accuracy of the machine learning service.





Note: Object Detection relies on machine learning algorithms, so the results may not always be completely accurate or comprehensive.

To optimize detection accuracy as we continue to improve our machine learning algorithms, we recommend that you set your graph to real-world units before starting detection.

• Importing Markups from Autodesk Docs

In addition to the Markup Import feature, PDF markup files can now be connected from Autodesk Docs to AutoCAD to help designers review and merge revisions.

• Esri — ArcGIS Maps

There are five new Esri maps available to assign geographic location information to drawings.

Now, AutoCAD uses five additional types of Esri maps to assign geographic location information to a drawing file.



1.3.6. GstarCAD2025 New Features

• Parametric Constraints (Geometry)

GstarCAD 2025 introduces Parametric Constraints, focusing exclusively on geometric constraints this year. Geometric constraints manage how objects relate to others, enabling automatic adjustments to other objects when changes are made. They also restrict changes to distance and angle values, ensuring design precision.

There are 12 types of geometric constraints corresponding to 12 relationships: Coincident, Collinear, Concentric, Fix, Parallel, Perpendicular, Horizontal, Vertical, Tangent, Smooth, Symmetric, and Equal.





• Import Revit Model files

GstarCAD 2025 now supports the import of RVT format files with their complete BIM data.

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	Save as type:	Block(*.dwg)			Can	cel

GstarCAD 2025 now supports exporting files in IFC4/IFC4/IFC2x3 (*.ifc) format, with their complete BIM data.

• Voice Annotation

You can enter VOICEMANAGER to add voice annotations in GstarCAD 2025, enhancing clarity. Through the Voice Manager panel, you can easily create, record, play, and manage voice annotations.



• Application Manager



GstarCAD 2025 supports Application Manager. It is a unified system for plugin management. Users can search, enable/disable, and view details of modular applications within the Application Manager, achieving the most suitable service configuration with minimal resource utilization.

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🚯 вім		1.0.1	2024-05-28	480 MB	Running	
Applic	ation Link	1.0.1	2024-05-28	18.9 KB	Hibernate	
↔ Intellig	gent DIM	1.0.1	2024-05-28	347 KB	Running	
Expres	ss Tools	1.0.1	2024-04-01	9.3 MB	Running	
S 3DNa	vigation	1.0.1	2024-06-06	372 KB	Running	•
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2. Market Positioning

2.1. Pricing Strategy

2.1.1. AutoCAD2025

AutoCAD2025 adopts a subscription-based business model in line with previous versions.

LECT A TERM			
Savings of 32% compa	ared to monthly price] [\$2,030/year for 1 user
^{3 year} \$6.085	1 year \$2.030	1 month	ADD TO CART >
Pay annually ☆	Most popular ☆		Credit and debit cards, PayPal, and direct debit (ACH) accepted. ()

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.

Buy tokens	
AutoCAD cost: 7 tokens/day 🔿	
Minimum \$300 \$00 tokens 16 days over 1 year Minimum \$1,500 \$00 tokens 71 days over 1 year Minimum \$200 tokens \$200	y Flex works se. Not all products and features are available t debit (ACH) accepted. [©]
— 🕂 Access more with Flex \mid 😂 Estimate your usage 📔 🍣 Buy more, save more ╞ 🖘 Pay as you go with Flex	
Estimate tokens	
What products will you be using? Select products that users will access occasionally.	Recommendation for 1 year
1 product selected 🗸	Estimates are based on the information you provide and available purchase options. Recommendations are rounded up to ensure that you have sufficient tokens for one year based on current daily consumption rate.
How many users and how often each month? A Flex user uses tokens to open a product for 24 hours (one day). To estimate the tokens you will need, enter the number of users who will access the selected products, and the average number of days a month each user will use them.	RECOMMENDED TOKENS PRICE 4200/year \$12,600
Users Days per month	Buy tokens Find an eligible reseller
AutoCAD 7 tokens/day 10 0 5 0 ×	Talk to our sales team: 1-844-842-1674 These estimates are based solely on information provided by you and your costs may vary based on your actual usage. Learn more

AutoCADLT 2025 adopts a subscription-based business model and is divided into three price tiers, \$65/month, \$505/year, and \$1515 for 3 years.

a to monthly price		\$505/year for 1 user		
^{1 year}	1 month \$65	ADD TO CART	>	
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2.1.2. GstarCAD 2025

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.

2.2. 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.

3. 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 date 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 2025 not only covers almost all the command used features of AutoCAD2025 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 features.



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https://www.gstarcad.net/



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