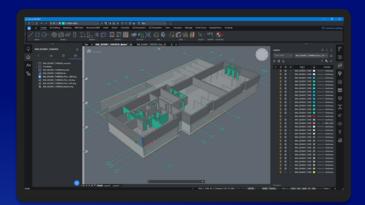
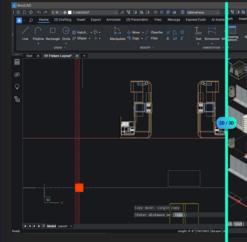


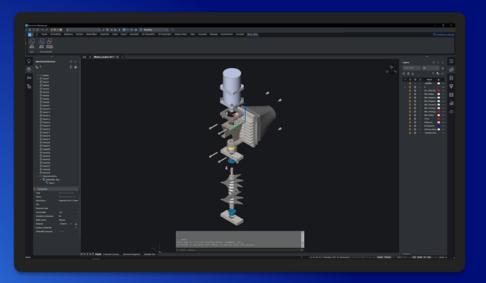
Feature Comparison Matrix BricsCAD[®], AutoCAD[®], ZWCAD, GstarCAD

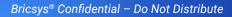
January 2024











- ✓ Feature /Function is available
- Feature /Function is not available
- Feature /Function is available, but BricsCAD functionality is superior
- Limitations to this Feature / Function

Key Differentiating Capability

This first chart highlights the main capability in $BricsCAD^{\circ}$ that we use to differentiate ourselves against the competition.

This is a summary guide for sales teams which outlines those features we should be discussing and showcasing in competitive situations, or when looking to replace AutoCAD®, which are unique to us and give us a functional advantage.

	Brics	CAD®	Auto	CAD®	ZW	CAD	Gsta	rCAD	
Feature	Lite	Pro	LT	Full	Std	Pro	Std	Pro	
Interface				Inter	face				
Contextual Quad Menu	~	~	-	-	-	-	-	-	The Quad conveniently and automatically makes recently used functions clearly available, and intelligently predicts what you want to do next. This saves effort and time, and increases user productivity.
Searchable Settings Variables Dialog Box	~	\checkmark	-	-	-	-	-	-	All 900+ system variables and user preferences are centralized in a single, searchable dialog box called Settings.
Drawing Explorer	~	~	-	-	0	0	-	-	The Drawing Explorer enables all the key aspects of a drawing to be managed in one comprehensive, single place, providing a fast, effective way to configure a drawing. It is especially useful when managing large or complex drawings. BricsCAD functionality is superior to others.
Structure Browser	~	~	-	-	-	-	-	-	The Structure Browser shoes all information within a drawing in one single location, enabling greater understanding of the drawing structure, and to find individual or groups of elements quickly.
Selection, Snap & Track			Sele	ction, S	nap & 1	Frack			
Nearest Distance	~	~	-	-	-	-	-	-	When two entities are selected, BricsCAD automatically displays a measurement of the distance between their nearest points, essentially acting as an automatically applied temporary constraint. This feature makes geometry editing much easier, requiring only one value to be changed rather than additional functions applied.
Adaptive Grid Snap	~	~	-	-	Ø	0	0	0	Adaptive Grid Snap automatically applies a grid snap that dynamically adapts to the current zoom level. It enables you to draw and edit more accurately with less keyboard entry. BricsCAD functionality is superior to others.
Editing Tools				Editing	g Tools				
CopyGuided / MoveGuided	~	~	-	-	-	-	-	-	Copy guided is a very powerful, intelligent tool which combines copying geometry, positioning it appropriately, and modifying its surrounding entities all in one easy function. MoveGuided does all of that, as well as healing of the geometry around the moved item. This saves you considerable time and effort.
Manipulator (3D Gizmo)	~	~		~					The Manipulator is far more convenient than using a combination of functions, such as move and rotate, especially when multiple manipulations are required. It's very easy to use and, when used in conjunction with direct modelling tools, is a powerful way to model shapes very quickly.
Drawing Health Management	~	~	-	-	-	-	-	-	Drawing Health combines the functionality of multiple stand-alone BricsCAD commands: PURGE, AUDIT, SIMPLIFY, OVERKILL, BLOCKIFY, OPTIMIZE and more. This allows you to reduce drawings size, remove unused styles, entities and layers, and improve the overall drawing quality, all in just a few clicks.

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	Brics	CAD®	Auto	CAD®	ZW	CAD	Gsta	rCAD
Feature	Lite	Pro	LT	Full	Std	Pro	Std	Pro
Editing Tools				Editing	g Tools			
Optimize	~	~	-	-	-	-	-	-
Simplify	~	~	-	-	-	-	-	-
Reference Tools			I	Referen	ce Tool	s		
Block Face Camera	~	~	-	-	-	-	-	-
Blockify	~	~	-	-	-	-	-	-
Parametric Blockify	-	~	-	-	-	-	-	-
Point Cloud Tools			P	oint Clo	oud Too	ls		
Native tools for working with Point Clouds	-	~	-	0	-	0	0	0
Modeling Tools				Modeliı	ng Tool	s		
Twist / Multi-Slice / 3D Parametric Design Tables	-	~	-	-	-	-	-	-
T Connect, L Connect, Connect with Nearest	-	~	-	-	-	-	-	-
Licensing				Lice	nsing			
License options to suit your needs	~	~	0	0	0	0	0	0

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Full Feature Comparison

This chart outlines all of the capability areas in ${\rm BricsCAD}^{\circledast}$ and our competition, providing a comparison between them for each feature.

This is a guide for technical teams, such a Pre-sales, highlighting features where we are either unique or comparable to the competition.

	Brics	CAD®	Auto	CAD [®]	ZWCAD		GstarCAD	
Feature	Lite	Pro	LT	Full	Std	Pro	Std	Pro
Drawings	Drawings							
Native DWG File Format (thru AutoCAD® 2023)	~	~	~	~	~	~	~	~
Password Protection	\checkmark	~	-	-	0	0	\checkmark	~
eTransmit	\checkmark	~	\checkmark	~	\checkmark	~	\checkmark	~
Sheet Set Manager	\checkmark	~	\checkmark	~	\checkmark	\checkmark	\checkmark	\checkmark
Geographic Location	\checkmark	~	~	\checkmark	~	~	~	\checkmark
Drawing Compare	\checkmark	~	~	\checkmark	~	\checkmark	\checkmark	\checkmark
Cloud Collaboration	\checkmark	~	~	\checkmark	~	~	~	\checkmark
Interface				Inter	face			
Dark and Light Color Themes	\checkmark	\checkmark	\checkmark	~	\checkmark	\checkmark	\checkmark	\checkmark
Industry Standard Commands, Aliases, and Variables	\checkmark	\checkmark	~	~	~	\checkmark	\checkmark	~
Command Line (Autocomplete, Midstring, Clickable options)	\checkmark	\checkmark	~	\checkmark	\checkmark	\checkmark	•	٠
Start tab	\checkmark	~	~	~	-	-	-	-
File (Drawing) tabs	\checkmark	~	\checkmark	~	\checkmark	~	\checkmark	~
Model and Layout tabs	\checkmark	~	~	~	~	~	~	~
Layout Manager	\checkmark	\checkmark	-	-	-	-	•	•
Menu bar	\checkmark	\checkmark	~	~	~	\checkmark	~	\checkmark
Toolbars	\checkmark	\checkmark	~	~	~	~	~	\checkmark
Ribbon	\checkmark	\checkmark	~	~	~	\checkmark	~	~
Tool Palettes	\checkmark	\checkmark	~	~	~	\checkmark	\checkmark	\checkmark
Contextual Right-click Menus	\checkmark	~	\checkmark	~	~	\checkmark	\checkmark	~
Contextual Quad Menu	\checkmark	\checkmark	-	-	-	-	-	-
Status Bar	\checkmark	\checkmark	~	\checkmark	~	\checkmark	\checkmark	\checkmark
Workspaces	\checkmark	\checkmark	\checkmark	~	0	0	0	0
Searchable Settings (Variables) Dialog Box	\checkmark	\checkmark	-	-	-	-	-	-
Lockable Interface	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Clean Screen Mode	\checkmark	~	~	~	~	\checkmark	~	~
Drawing Explorer	\checkmark	~	-	-	0	0	-	-
Customizable User Interface (CUI)	\checkmark	\checkmark	~	\checkmark	~	\checkmark	~	\checkmark
Drawing Structure Browser	~	\checkmark	-	-	-	-	-	-
Selection, Snap & Track			Sel	ection, S	nap & Tr	ack		
Selection Filtering (QSELECT)	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Add Selected	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Select Similar	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Selection Cycling	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark

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	Brics	SCAD®	AutoCAD [®]		ZWCAD		Gsta	rCAD
Feature	Lite	Pro	LT	Full	Std	Pro	Std	Pro
Selection, Snap & Track			Sel	ection, S	nap & Tra	ack		
Entity Snaps (Osnaps)	~	~	\checkmark	~	~	~	\checkmark	~
Polar Tracking	\checkmark	\checkmark	\checkmark	~	\checkmark	~	\checkmark	~
Zintersection 3D snap	\checkmark	\checkmark	-	-	-	-	-	0
Nearest Distance	\checkmark	\checkmark	-	-	-	-	-	-
Adaptive Gridsnap	\checkmark	\checkmark	-	-	0	0	0	0
Real-time boundary detection	\checkmark	\checkmark	-	-	-	-	-	0
2D Dynamic UCS	\checkmark	\checkmark	-	-	~	~	\checkmark	~
3D Dynamic UCS	~	~	-	~	~	~	\checkmark	~
Drawing Tools				Drawin	g Tools			
Line, Polyline, 3D Polyline, Spline, Ray, Xline	~	~	\checkmark	~	\checkmark	~	\checkmark	~
Multiline and Multiline Styles	\checkmark	~	-	~	\checkmark	~	\checkmark	~
Circle, Arc, Ellipse, Eliptical Arc	~	~	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Polygon, Rectangle, Region, Donut, Point	\checkmark	\checkmark	\checkmark	~	~	~	\checkmark	~
Helix	\checkmark	\checkmark	-	~	\checkmark	~	\checkmark	~
2D Parameters, Constraints	\checkmark	\checkmark	-	~	~	\checkmark	\checkmark	~
2D Auto-constrain	\checkmark	\checkmark	•	•	-	-	-	-
Calculator	\checkmark	\checkmark	\checkmark	~	\checkmark	\checkmark	-	-
Annotation Tools				Annotati	on Tools			
Dimensions, Dimension Styles	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	~	\checkmark	\checkmark
Quick Dimension	\checkmark	\checkmark	\checkmark	~	\checkmark	~	\checkmark	\checkmark
Multi-leaders, Multi-leader Styles	~	~	\checkmark	~	~	\checkmark	\checkmark	~
Single and Multi-line text, Text Styles, Text Editor	~	\checkmark	\checkmark	\checkmark	\checkmark	~	\checkmark	\checkmark
Hatches, Gradients, Hatch/Gradient Editor	\checkmark	\checkmark	\checkmark	~	~	\checkmark	\checkmark	~
Wipeouts	\checkmark	\checkmark	\checkmark	~	\checkmark	~	\checkmark	\checkmark
Revision Clouds	\checkmark	\checkmark	\checkmark	~	\checkmark	~	\checkmark	\checkmark
Attributes, Attribute Editor	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Tables, Table Styles	\checkmark	\checkmark	\checkmark	~	~	~	\checkmark	~
Fields	~	~	\checkmark	~	~	~	\checkmark	~
Data Extraction	\checkmark	\checkmark	-	~	\checkmark	~	\checkmark	\checkmark
Data Linking	\checkmark	\checkmark	\checkmark	~	\checkmark	~	\checkmark	~
Annotation Scaling	\checkmark	\checkmark	\checkmark	~	~	~	\checkmark	~
Spell Check	~	~	\checkmark	~	~	\checkmark	\checkmark	~
Editing Tools				Editing	, Tools			
Move, Copy, Rotate, Scale, Stretch, Mirror, Align	\checkmark	\checkmark	\checkmark	~	\checkmark	\checkmark	\checkmark	\checkmark
Trim, Extend, Lengthen, Break, Join	\checkmark	~	\checkmark	~	\checkmark	~	\checkmark	\checkmark
Fillet, Chamfer	\checkmark	\checkmark	\checkmark	~	\checkmark	\checkmark	\checkmark	\checkmark
CopyGuided	\checkmark	~	-	-	-	-	-	-
MoveGuided	\checkmark	\checkmark	-	-	-	-	-	-

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	Brics	CAD®	Auto	CAD®	ZWCAD		Gsta	rCAD
Feature	Lite	Pro	LT	Full	Std	Pro	Std	Pro
Editing Tools				Editing	g Tools			
Grip Edit	\checkmark	~	\checkmark	~	\checkmark	~	\checkmark	~
Properties Panel	\checkmark	\checkmark	\checkmark	~	\checkmark	~	\checkmark	\checkmark
Manipulator (3D Gizmo)	\checkmark	\checkmark	-	~	-	-	-	-
Draworder	\checkmark	~	\checkmark	~	\checkmark	~	\checkmark	~
Undo Per Entity (Property History)	\checkmark	\checkmark	-	-	-	-	-	-
Optimize	\checkmark	\checkmark	-	-	-	-	-	-
Simplify	\checkmark	\checkmark	-	-	-	-	-	-
Drawing Health Management	\checkmark	\checkmark	-	-	-	-	-	-
Reference Tools				Referen	ce Tools			
Blocks, Block Editor	\checkmark	~	\checkmark	~	\checkmark	~	\checkmark	~
Dynamic Blocks	•	•	\checkmark	\checkmark	•	•	•	•
Block Face Camera	\checkmark	\checkmark	-	-	-	-	-	-
Blockify	~	\checkmark	-	-	-	-	-	-
Parametric Blockify	-	~	-	-	-	-	-	-
Associative Arrays	\checkmark							
Dwg (Xref) Attach, Clip, Bind, Edit	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	~	\checkmark	\checkmark
PDF Attach, Clip	\checkmark	\checkmark	\checkmark	~	\checkmark	~	\checkmark	\checkmark
Image Attach, Clip, Adjust, Transparency	\checkmark	\checkmark	\checkmark	~	\checkmark	~	\checkmark	\checkmark
Point Cloud Tools				Point Clo	oud Tools	;		
Point Cloud Preprocess	-	~	-	-	-	-	-	-
Attach Point Cloud (LAS, LAZ, PTS, PTZ, e57, RCP, RCS)	-	\checkmark	-	0	-	0	0	0
Export Point Cloud (LAS, PTS)	-	\checkmark	-	0	-	-	-	-
Align Point Cloud	-	\checkmark	-	0	-	-	0	0
Crop Point Cloud	-	\checkmark	-	0	-	0	-	-
Point Cloud Classify	-	\checkmark	-	-	-	-	-	-
Point Cloud Manager	-	\checkmark	-	0	-	0	-	-
Point Cloud Bubble Viewer	-	\checkmark	-	-	-	-	-	-
Point Cloud Color Map	-	~	-	0	-	0	0	0
Visualization Tools			١	/isualiza	tion Tool	s		
Layers, Layer States	\checkmark	~	\checkmark	~	\checkmark	~	\checkmark	~
Transparency	\checkmark	~	~	\checkmark	\checkmark	~	\checkmark	~
Visual Styles	\checkmark	\checkmark	-	\checkmark	\checkmark	\checkmark	\checkmark	~
LookFrom (ViewCube)	\checkmark	~	-	\checkmark	0	0	\checkmark	\checkmark
Match Perspective	-	\checkmark	-	-	-	-	-	-
Lights	-	~	-	\checkmark	\checkmark	\checkmark	\checkmark	~
Sun Properties	-	\checkmark	-	\checkmark	-	0	0	0
Materials	-	~	-	\checkmark	-	\checkmark	-	\checkmark
Render	-	\checkmark	-	\checkmark	-	\checkmark	-	\checkmark

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				AutoCAD [®]		ZWCAD		
						1	Gsta	
Feature	Lite	Pro	LT	Full	Std	Pro	Std	Pro
Visualization Tools				/isualiza ⁻	tion lool			
Animation Editor	-	~	-	-	-	\checkmark	-	-
Walkthrough navigation ANIPATH command	-	~	-	✓	-	-	-	-
Built-in Datasmith Export	-	✓ ✓	-	~	-	-	-	-
Built-in Direct Link with Twinmotion/Unreal	-	~	-	-	-	-	-	-
Modeling Tools	-	~	-	Modelir	ng Tools	-	-	-
ACIS Modeling	-	~	_	V	-	~	-	~
Solid and Surface Modeling	-	~	_	~	-	~	-	
Solid Primitives	_	~	-	~	-	~	-	~
Mesh Primitives	_	~	_	~	-	~	-	J
Polysolid	_	~	-	~	-	~	-	~
Union, Subtract, Intersect, Interfere	_						_	*
Extrude, Revolve, Loft, Sweep, Thicken	-	~	-	~	-	•	-	×
	-	~	-	\checkmark	-	•	-	\checkmark
Twist	-	~	-	-	-	-	-	-
Fillet, Chamfer	-	~	-	~	-	~	-	\checkmark
Slice	-	~	-	~	-	~	-	~
Multi-slice	-	~	-	-	-	-	-	-
T Connect, L Connect, Connect with Nearest	-	~	-	-	-	-	-	-
Extract Edges	-	\checkmark	-	\checkmark	-	-	-	\checkmark
Direct Modeling	-	~	-	~	-	~	-	\checkmark
Deformable (Freeform) Modeling	-	\checkmark	-	\checkmark	-	~	-	-
Audit, Simplify	\checkmark	~	-	\checkmark	-	-	•	•
Stitch	-	\checkmark	-	~	-	-	-	-
3D Parameters, Constraints	-	~	-	\checkmark	-	-	-	-
3D Autoparametrize	-	~	-	-	-	-	-	-
3D Parametric Design Tables	-	~	-	-	-	-	-	-
Section Planes	-	~	-	\checkmark	-	-	-	\checkmark
3D Threads	-	\checkmark	-	-	-	-	-	-
3D Blockify and Parametric Blockify	-	~	-	-	-	-	-	-
Drawing Views	-	\checkmark	-	\checkmark	-	\checkmark	-	\checkmark
Civil and Survey Tools			Ci	vil and S	urvey To	ols		
TIN Surface Modeling	-	~	-	-	-	-	-	-
Civil Points	-	~	-	-	-	-	-	-
TIN Volume Surface	-	~	-	-	-	-	-	-
Grading	-	~	-	-	-	-	-	-
Alignments	-	~	-	-	-	-	-	-
Profiles (Vertical Alignments)	_	~	-	-	-	-	-	-
Corridors	-	~	-	-	-	-	-	-

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	BricsCAD [®]		AutoCAD®		ZWCAD		GstarCAD	
Feature	Lite	Pro	LT	Full	Std	Pro	Std	Pro
Civil and Survey Tools			Ci					
Autodesk® Civil 3D Object Enabler	\checkmark	\checkmark	-	~	-	-	-	-
Boundary Trim	-	~	-	-	-	-	-	-
GIS Data	-	\checkmark	-	~	-	0	-	-
Import, Export, Output			Im	port, Exp	ort, Outp	out		
Print/Plot	\checkmark	~	\checkmark	~	~	\checkmark	\checkmark	\checkmark
Print as JPG	\checkmark	~	\checkmark	~	0	0	-	-
Print as TIFF	\checkmark	\checkmark	\checkmark	\checkmark	0	0	-	-
Print as PNG	\checkmark	~	\checkmark	~	0	0	-	-
Print as BMP	\checkmark	\checkmark	\checkmark	\checkmark	-	-	-	-
Publish/Batch Plot	\checkmark	~	\checkmark	~	\checkmark	\checkmark	\checkmark	\checkmark
Create PDF Bookmarks	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	-	-
CTB & STB Table Files	\checkmark	~	\checkmark	~	~	\checkmark	\checkmark	\checkmark
PC3 Printer Configuration Files	\checkmark	\checkmark	\checkmark	~	~	~	\checkmark	\checkmark
Named Page Setups	\checkmark	\checkmark	\checkmark	~	~	\checkmark	~	\checkmark
PDF Import, Export	\checkmark	~	\checkmark	~	~	~	\checkmark	\checkmark
DAE Import, Export	\checkmark	~	-	-	-	-	-	-
IFC Import, Export	-	-	-	~	-	•	•	•
3DM Import, Export	-	~	-	-	-	-	-	-
LandXML Import, Export	-	\checkmark	-	-	-	-	-	-
SKP Import	-	\checkmark	-	-	-	-	-	-
DGN Import	\checkmark	~	\checkmark	~	~	~	\checkmark	\checkmark
DWF Export	\checkmark	~	~	~	~	~	~	\checkmark
SVG Export	\checkmark	~	-	-	-	-	-	-
FBX Export	\checkmark	~	-	-	-	-	-	-
STL Export	\checkmark	~	-	~	-	-	~	\checkmark
Autodesk® Civil 3D data import	-	~	-	-	-	-	-	-
Additional formats available with Communicator for $\mbox{BricsCAD}^{\mbox{\scriptsize \$}}$	-	~	-	-	-	-	-	-
Programming				Progra	mming			
ActiveX	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Entity Data Editor	\checkmark	\checkmark	-	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Script Recorder	\checkmark	\checkmark	-	\checkmark	\checkmark	\checkmark	-	-
Full LISP Support (vl, vlr, vla and vlax)	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Solutions Development System (SDS/ADS)	\checkmark	~	-	\checkmark	-	\checkmark	\checkmark	\checkmark
DCL Engine	\checkmark	\checkmark	-	\checkmark	-	\checkmark	\checkmark	\checkmark
COM API	-	\checkmark						
Visual Basic for Applications (VBA)	-	\checkmark	-	\checkmark	-	\checkmark	\checkmark	\checkmark

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	BricsCAD [®]		AutoCAD [®]		ZWCAD		Gsta	rCAD		
Feature	Lite	Pro	LT	Full	Std	Pro	Std	Pro		
Programming	Programming									
VBA DVB projects support	-	~	-	~	~	~	•	•		
.NET	-	~	-	~	-	\checkmark	~	~		
BRX (ARX / ZRX / GRX)	-	~	-	~	-	•	\checkmark	~		
TX (Teigha eXtensions)	\checkmark	~	-	-	-	-	-	-		
CUI menu files support, with Diesel expressions	\checkmark	~	~	~	-	-	\checkmark	~		
Licensing				Licer	nsing					
Cross-platform Licenses (Windows, Mac, Linux)	\checkmark	\checkmark	-	-	-	-	-	-		
Perpetual	\checkmark	~	-	-	~	\checkmark	\checkmark	\checkmark		
Subscription	\checkmark	~	~	~	-	-	\checkmark	\checkmark		
Network Multi-user	\checkmark	~	-	-	~	\checkmark	-	-		
Volume (Perpetual)	\checkmark	~	-	-	٠	•	•	•		
Academic	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	•	•		