

	GstarCAD 2019		ZWCAD 2019	
Files	Pro	Std	Pro	Std
32-bit / 64-bit Support	✓	✓	✓	✓
.dwg and .dxf for AutoCAD version 2.5 to latest	✓	✓	✓	✓
.pat,.shx,.lin and etc	✓	✓	✓	✓
Password Protection and Digital Signatures	✓	✓		
File Recover and Audit	✓	✓	✓	✓
Purge	✓	✓	✓	✓
Etransmit	✓	✓	✓	✓
Sheet Set manager	✓	✓		
CAD Standard .dws	✓	✓		
Xrefs in-place Editing	✓	✓	✓	✓
DWF Underlay	✓	✓	✓	✓
PDF Underlay	✓	✓	✓	✓
DGN Import and Underlay	✓	✓	Only Import	Only Import
DWG Convert	✓	✓		
Import to WMF, SAT, 3DS	✓	✓	WMF, SAT only	WMF, SAT only
Export to DWG, DWF, DWFX, WMF, SAT, STL, EPS, DXX, BMP	✓	✓	Partially	Partially
Plot and Publish to PDF	✓	✓	✓	✓
Publish to DWF 2D & 3D	✓	✓		
Collaboration	✓	✓		
IFC format	✓	✓		
Interface	Pro	Std	Pro	Std
Hidden Message Settings	✓	✓		
WorkSpace command	✓	✓		
Color Scheme	✓ support many	✓ support many	✓ support few	✓ support few
CUI Menus and Toolbars	✓	✓	✓	✓
CUI Import & Export	✓	✓		
Drag and Drop Customization	✓	✓		
Visual Menu Customization	✓	✓		
Ribbon / Classic	✓	✓	✓	✓
Properties Palettes	✓	✓	✓	✓
Design Center / Tool Palettes	✓	✓	Tool Palettes	Tool Palettes
Xref Palette	✓	✓		
Command Line	✓	✓	✓	✓
Clean Screen	✓	✓	✓	✓
New Dynamic Input	✓	✓		
Menu bar	✓	✓	✓	✓
File Tab	✓	✓	✓	✓
Selection, Snap & Track	Pro	Std	Pro	Std
SELECTIONCYCLING	✓	✓	different method	different method
Right-Click + Drag Method	✓	✓	✓	✓
Selection Preview	✓	✓	✓	✓
Quick Select	✓	✓	✓	✓
Select Similar	✓	✓	✓	✓
Xtra Grips for Pline & Hatch Objects	✓	✓	Xtra Grips for Pline	Xtra Grips for Pline
Osnap	✓	✓	✓	✓
Grid and Snap	✓	✓	✓	✓
Polar & OTrack	✓	✓	✓	✓
Distance from Endpoint and Divide Segments options	✓	✓		
Group	✓	✓	✓	✓
ADDSELECTED command	✓	✓		
Multiple command	✓	✓	✓	✓

<b>Dimensions</b>	<b>Pro</b>	<b>Std</b>	<b>Pro</b>	<b>Std</b>
Standard Dimensions	✓	✓	✓	✓
Associative Dimension	✓	✓	✓	✓
Quick Dimension	✓	✓	✓	✓
Qleader	✓	✓	✓	✓
Dimension Break	✓	✓		
Multileaders	✓	✓	✓	✓
<b>Text</b>	<b>Pro</b>	<b>Std</b>	<b>Pro</b>	<b>Std</b>
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	✓	✓	Partially	Partially
Rtext / Arc Text	✓	✓	Arc Text	Arc Text
Text Incremental Copy	✓	✓		
Text on line	✓	✓		
Statistics Summation	✓	✓		
<b>Layers</b>	<b>Pro</b>	<b>Std</b>	<b>Pro</b>	<b>Std</b>
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	✓	✓	✓	✓
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	✓	✓	✓	✓
<b>Hatch</b>	<b>Pro</b>	<b>Std</b>	<b>Pro</b>	<b>Std</b>
Gradient Hatches	✓	✓	✓	✓
Custom Patterns	✓	✓	✓	✓
Background and Color for Hatch Patterns	✓	✓		
Trim/Extend of/to Hatch Pattern Entities	✓	✓	✓	✓
Superhatch	✓	✓	✓	✓
Transparency for Hatch	✓	✓		

<b>Raster images</b>	<b>Pro</b>	<b>Std</b>	<b>Pro</b>	<b>Std</b>
Raster Image Support (Clipping, Transparency, ...)	✓	✓	✓	✓
Support Kinds of Image Files (bmp\jpg\png\tga\tif\gif\pcx\...)	ECW and JPEG 2000 not supported	ECW and JPEG 2000 not supported	ECW supported	ECW supported
<b>Express Tools</b>	<b>Pro</b>	<b>Std</b>	<b>Pro</b>	<b>Std</b>
Area Table	✓	✓		
Break Object	✓	✓		
Block Break	✓	✓		
<b>Express Tools</b>	<b>Pro</b>	<b>Std</b>	<b>Pro</b>	<b>Std</b>
Graphic Compare	✓	✓		
Text Align / Text Match	✓	✓	Align Text	Align Text
Change Text	✓	✓		
Areasum	✓	✓	By select	By select
Align Tool / Arrange Tool	✓	✓		
Batpurge	✓	✓		
Layout by Path	✓	✓		
Line2pl	✓	✓		
Sptpl	✓	✓		
GstarCAD Tools	✓	✓		
Plot tools	✓	✓		
Drawing Compare	✓	✓	File Compare	File Compare
Delete Duplicate Objects (OVERKILL)	✓	✓	✓	✓
Drawing Lock	✓	✓	Lock Up	Lock Up
<b>Others</b>	<b>Pro</b>	<b>Std</b>	<b>Pro</b>	<b>Std</b>
Make Shape	✓	✓		
Import Layout as Sheet	✓	✓		
Viewport Scale	✓	✓		
Attribute Increment (ATTINC)	✓	✓		
Define Layout Viewport from ModelSpace (M2LVPORT)	✓	✓		
Security	✓	✓		
Free Scale	✓	✓		
Hatch to Back	✓	✓		
Reverse	✓	✓		
Synchronize Attributes (ATTSYNC)	✓	✓		
Clip	✓	✓		
Array Options	✓	✓		
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	✓	✓		
Magnifier	✓			
Barcode & QR Code	✓	✓	✓	✓
Cloud Storage	✓	✓		

Non-rectangular Viewports	✓	✓	✓	✓
Shortcut Customization (CUSTACC)	✓	✓		
Match Properties Across Drawings	✓	✓		
Multilines and Multiline Styles	✓	✓	✓	✓
Block Create and Insert	✓	✓	✓	✓
Block Attribute Definition	✓	✓	✓	✓
Redefine Block	✓	✓	✓	✓
Refedit	✓	✓	✓	✓
Hyperlink	✓	✓	✓	✓
Digitizer Integration	✓	✓	✓	✓
Scale List	✓	✓	✓	✓
Dynamic Block Create/Insert/View	✓	✓	✓	✓
Dynamic Block Editor (BEDIT)	✓	✓ Partially	✓	✓ Partially
Table Tools	✓	✓		
AutoXLSTable	✓	✓		
Pline Boolean	✓	✓		
SmartMouse			✓	✓
SmartVoice			✓	✓
Undo/Redo Preview	✓	✓	✓	✓
<b>3D</b>	<b>Pro</b>	<b>Std</b>	<b>Pro</b>	<b>Std</b>
Section Plane	✓			
Flatshot	✓	✓		
3D Surfaces	✓	✓	✓	✓
ACIS Modeling & Editing	✓		✓	
3D Orbit options	✓	✓	Partially	Partially
Render	✓		✓	
Visual Styles	✓	✓	Hide/Shade	Hide/Shade
Solid editing	✓		Partially	
Solprof / Solview / Soldraw	✓		only Solprof	
<b>Printing</b>	<b>Pro</b>	<b>Std</b>	<b>Pro</b>	<b>Std</b>
CTB & STB Plot Style Files	✓	✓	✓	✓
Plot Styles Table Editor	✓	✓	✓	✓
Built-in Print Driver	✓	✓	✓	✓
Import & Editing of Page Setups	✓	✓	✓	✓
Publish	✓	✓	✓	✓
Hide and Shade Plot	✓	✓	Partially	Partially
Batch Print	✓	✓		
Arrange Frame	✓	✓		
<b>Programming</b>	<b>Pro</b>	<b>Std</b>	<b>Pro</b>	<b>Std</b>
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, Run routines *.fas	✓	✓		
MNU and MNS File Support	✓	✓	✓	✓
API for Toolbar and Menu Customization	✓	✓	✓	✓
<b>Licensing</b>	<b>Pro</b>	<b>Std</b>	<b>Pro</b>	<b>Std</b>
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

Table comparison updated at Sep 30th 2018