CADPower

DEVELOPED FOR
BRICSCAD

CADPower Tool List

"Super-charging BricsCAD and AutoCAD with productivity boosting tools since 1999"

Polyline Tools

Join

CP_3DJ	Join 3D Polylines
CP_PLJOIN	Automated Join - 2D polylines

Change 2d -> 3d -> 2d

CP_CH2D3D	2D-to-3D
CP_CH3D2D	3D-to-2D

Vertex Management

CP_DELVX	Delete Vertex
CP_INSVX	Insert Vertex
CP_DENSIFY	Densify vertices
CP_REM_LINVERTS	Weed (remove) collinear vertices from polyline
CP_PL_PLACE	Place Points/Blocks along vertices
CP_FIXCLOSED	Add / Remove redundant closing vertex in polylines
CP_DELSVP	Delete single vertex polylines
CP_MVEDIT	Multiple Vertex Editor
CP_NEWSTART	Specify a new start point for closed polylines
CP_TWEAKPOLY	Tweak polyline vertex

Part Editing

CP_PARTEXTRACT	Extract part of a polyline
CP_PARTCOPY	Copy(and move) part of a polyline
CP_PARTOFFSET	Offset part of a polyline
CP_PARTSTRETCH	Stretch part of a polyline
CP_PARTMIRROR	Mirror part of a polyline
CP_PARTROTATE	Rotate part of a polyline
CP_PARTRESHAPE	Reshape part of a polyline

Inquiry & Statistics

CP_PL_STAT	Compute detailed polyline statistics
CP_LAYERAREA	Compute summed polyline areas from selected layers
CP_LENGTH	Compute lengths
CP_CALCAREA	Compute summed areas of closed polylines
CP_BULGE	Display info. about polyline bulge (arc segments)

CP_FINDHND	Search entities via handles

More editing
CP_XV	Express Pedit
CP_CP_MPEDIT	Multiple Pedit
CP_CHW	Change Widths
CP_XP_WPL	Explode Polylines with width
CP_SEGLENSET	Specify segment lengths in polylines
CP_SEGDEL	Delete a single segment from polyline

Flip
CP_FLIP	Flip (Reverse) direction
CP_PLARCMIRROR	Flip (mirror) arc segments of polylines

Fillet
CP_FILLETPOLY	Enhanced fillet command
CP_MFILLET	Fillet multiple polylines

Others
CP_CP_INOUTOFFSET	Offset closed polylines INwards/OUTwards
CP_XPSPL	Explode Splined
CP_POLYGETZ	Acquire Neighboring polyline elevations
CP_FLOW_LT	Control polyline linetypes
CP_ZPOLY	Zoom to Polyline
CP_FIXUCS	Fix line/polylines with different UCS
CP_LINPOLY	Draw linear polylines from arced polylines

Conversion

Line/Polyline/Arc/Spline
CP_PLARC2PL	Convert Arc Polylines to linear segment polyline
CP_PLINE2ARC	Convert linear polylines to arcs/arced polylines
CP_LINE2PL	Convert lines and arcs to polylines
CP_SPL2PL	Convert Splines to polylines
CP_PL2SPL	Convert polylines to SPLINE
CP_UNITCONV	Units change
CP_LINE2XLINE	Line 2 XLINE

Polyline/3DFace/Mesh
CP_PL23DFACE	Convert polylines to 3dface
CP_PL2PFACE	Convert polylines to PFACE
CP_3DF2PL	3DFaces to polylines
CP_3DF2PFACE	3DFaces to polyface mesh
CP_PFACE2PL	Polyface mesh to polylines

More conversion
CP_BLKSHP2P	Convert Blocks/Shapes/Text/Circle to Points
CP_P2BLKSHP	Convert Points/Text/Circles to Blocks/Shapes
CP_0LEN2PNT	Convert 0 Lengths to POINTs
CP_ATT2XD	Attributes to Xdata

Polyline Types

CP_CH_H2L	Heavy-Weight to Light-Weight
CP_CH_L2H	Light-Weight to Heavy-Weight
CP_SCALE_Z	Scale Z values
CP_BL2BE	Change Properties ByLayer-to-ByEntity
CP_FLATTEN	Flatten - Convert to 0.0 elevation

Export

CP_IMPEX	Import/Export points and lines
CP_MULTEXPORT	Multiple drawing export in various formats
CP_3DF2DM	Export 3dface objects into SMS 2DM file format
CP_IMPORT2DM	Import 2DM files as 3dface objects
CP_CSVEXPORT	Export CSV file

Draw

Geometry

CP_CREATETAPER	Tapered lines
CP_SLOT	Slot
CP_HELIX	Helix
CP_PARABOLA	Parabola
CP_INVOLUTE	Involute
CP_TUBE	Tube
CP_TRUNCCONE	Truncated Cone
CP_PERP	Perpendicular lines
CP_DBOX	Draw Rectangle with diagonals
CP_XLINES	Projected(construction) lines
CP_TANCURVE	Tangents to Curves
CP_LINEEQ	Equation of a Line
CP_CGRID	Construction Grid
CP_RECTLB	Draw Rectangle with dimensions

CAD Objects

CP_EASY3DPOINT	Easy 3dpoint
CP_EASY3DPOLY	Easy 3dpolyline
CP_EASY3DFACE	Easy 3dface

Symbology

CP_ROUGHEN	Roughen a Line
CP_PATTERNPLACER	Place a pattern at regular spacing

Rule-based

CP_DRAWPOLYINCDEC	Draw 3d polylines with auto.Elev increment/decrement
CP_BOXSCREEN	Draw a rectangle box at the current screen extents
CP_BOUNDENT	Draw bounding box around selected object(s)
CP_SORTEDPOLY	Draw a polyline by joining points in sorted order
CP_SHOWPLARCS	Draw arc-ends to arc-center connections in arcs & poly-arcs
CP_POLYAREACREATE	Draw closed polylines to an exact area

| CP_HOLETABLE | Draw Hole table |
| CP_POLYAREACREATE | Draw closed polylines to an exact area |

Build

Offset

CP_MOFFSETR	Multiple Offset - Relative
CP_MOFFSETA	Multiple Offset - Absolute
CP_CP_OFFSET	Offset and delete original
CP_3DOFFSET	Offset 3d polylines
CP_SEGOFFSET	Offset single segment from polyline
CP_MVOFFSET	Multiple Variable polyline segment offset

CP_CREATECENT	Create centroid marks inside closed polygons
CP_MEASUREMANY	Measure multiple objects
CP_EXTRUDER	Easy Solids Extruder
CP_JNE	Join nearest ends of lines, polylines

| CP_CPROT | Copy and then Rotate |
| CP_MVROT | Move and then Rotate |

| CP_DATAMAN | Data Manager |

Annotation

CP_IDXYZ	Label points
CP_VXLABEL	Label polyline vertices
CP_SEGLABEL	Label polyline segments
CP_ANGLABEL	Label polyline Angles
CP_ANNOTATEENDS	Annotate ends of lines/polylines with symbols
CP_ANNOTPOINTS	Annotate points, based on layer names
CP_LENTEXT	Create/update length annotation
CP_HNDLABEL	Display object handles as text labels
CP_MARKLEVELS	Mark levels above-or-below a selected datum

Blocks

Block-related

CP_MOD_SHBL	Globally Modify Block Properties
CP_BLKMAN	Block Names Editor
CP_REPBLK	Replace Block
CP_XP_ATT (BURST)	Explode Block- Retain attributes as Text
CP_COMPAREBLKATTS	Compare Block attributes and create report
CP_CONNECTBLOCKS	Connect blocks based on attribute values
CP_MREDEFINE	Multiple Redefine Blocks-Lyr/Clr
CP_EXPLODENESTED	Explode only nested blocks
CP_EXPLODE2LAYER	Explode blocks to a specified layer
CP_DRAWSEGBLOCKS	Place a block along each segment of the polyline
CP_MBLKTRIM	Trim lines/polylines along intersecting blocks
CP_BLOCKINS	Express Block Insert

CP_REPEATBLK	Repeat Last Block Insert
CP_BLKSLIDE	Slide (move) block relative to its rotation angle
CP_SCLEDIT	Interactive XY scale editor

Attribute-related

CP_CP_ATTEDIT	Global Attribute Editor
CP_CP_EASYATT	Multiple-Choice attribute editor
CP_CP_EASYATT_SETUP	Multiple-Choice attribute editor Setup
CP_CP_EASYATTCLASS	Change block layers/color based on attribute values
CP_CP_ATTEXT	Extract Block attributes to file
CP_PROP2ATT	Transfer AutoCAD properties to Blocks Attributes
CP_TAGEXT	Export Block Attribute Tags to ASCII file
CP_TAGREN	Rename block attribute tags, prompts and defaults
CP_TAGDEL	Delete block attribute tags from block definition
CP_ATTMOVE	Move attribute
CP_ATTROTATE	Rotate attribute
CP_ATTUPRIGHT	Make attribute readable
CP_ATTXFER	Transfer Attributes between blocks
CP_TXT2ATT	Transfer Text strings to Block attributes
CP_ZOOMTXT	Search and replace text/attributes
CP_BLKEDIT	Edit blocks graphics and attribute properties independently
CP_DYNATTPLACE	Place Block - position attributes interactively
CP_SRCHBLK4TXT	Search Blocks for text strings

Text

Creation

CP_TC	Draw Quick Text (running numbers)
CP_CURVETEXT	Create text along a curve
CP_EASYTEXT	Create text aligned to a curve
CP_DATESTAMP	Create Date/Drawing Stamp
CP_MT	Draw Multiple Text

Editing

CP_MODTXT	Globally modify TEXT/MTEXT
CP_TXTFILTER	Text Filter
CP_TXTROUND	Round Off Numeric text
CP_ENCLOSE	Enclose Text in Box
CP_CONS_TXT	Consolidate Text into MText
CP_SPLITTEXT	Split long text strings into individual strings
CP_UNCLUTTER	Unclutter text objects
CP_TXTSLIDE	Slide (move) text relative to its rotation angle
CP_TXT2FILE	Write Text to File
CP_TXTEDIT	Global Multiple Text Editor
CP_TXT2MTXT	Consolidate Text into MText (quick version)

Conversion

CP_TXT2ATTDEF	Convert text strings to attribute definitions
CP_ATTDEF2TXT	Convert attribute definitions to text objects
CP_CHCASE	Change Case
CP_CHCASEQUICK	Change Case – shortened quick version

Display

CP_ALIGNTEXT	Align Text Objects
CP_ALIGNTEXT2LINE	Align Text Objects to a line
CP_TORIENT	Text Orient: Make Text,MText readable
CP_TXTSPACING	Adjust the spacing between text objects
CP_TXTCHANGE	Exchange one text with another
CP_UND_LINE	Underline Text
CP_TXTEVAL	Apply arithmetic/statistical operations on text objects
CP_DWGFONTS	List Drawing Fonts
CP_TEXTMASK	Create TEXTMASK
CP_TCOUNT	Count occurence of text objects

Extended Entity Data

CP_REMXD	Remove Xdata
CP_XD_SEARCH	Search and replace extended entity data
CP_SHOWXD	Display extended entity data from picked object
CP_XD_EXTRACT	Extract extended entity data to ASCII files
CP_OD_XD_LABEL	Create text labels from Object data / extended entity data
CP_NODATA	Check for no Xdata / Object Data
CP_EASYEED	Edit XDATA in a dialog box

BOM/BOQ Tools

Generic

CP_BOM	BOM/BOQ Generator

Panels, Sizes & Area computation

CP_TILEPLACE	Place tiles / XY panels (for space planning)
CP_TILEOFFSET	Offset tiles / XY panels
CP_TILECOUNT	Count tiles / XY panels
CP_TILEEDIT	Edit tiles / XY panels
CP_FLEXITILE	Place flexi-tiles

Doors, windows & fixtures schedules

CP_BUILDWALLS	Build Walls from plan footprint
CP_SEGLENHGTSET	Set Height/Length of wall segments
CP_PLACEFIXTURES	Place openings/fixtures on walls/floors
CP_COMPUTEWALLAREAS	Compute Wall/Openings areas

Linear Quantities

CP_LINEQTY	Compute linear quantities

Parts Management

CP_PARTASSIGN	Assign part names
CP_PARTUNASSIGN	Un-Assign part names
CP_PARTLABEL	Label part names
CP_PARTCOUNT	Count part names

Modeler

CP_CONVERTTO3DFORMS   Convert 2d objects to 3d forms

Miscellaneous

File Management

CP_FILEMAN	File Manager
CP_DWGBROWSER	DWG browser, with thumbnail previews
CP_BINDXREF	Detaches all un-referenced XREFs and binds all others into current DWG
CP_BATCHPROCESS	Batch process multiple drawings with scripts
CP_MULTINS	Multiple DWG Inserts
CP_MXREF	Multiple drawings XREF
CP_READEXIF	Display EXIF data from images & other files (photo-forensics)

CP_INIEDITOR	Edit CADPower INI files	

Export

CP_LYRS2DWG	Layers to DWG
CP_DWGSPLIT	Split a drawing into smaller parts
CP_FILEESORT	Sort ASCII files

CAD Procedures

CP_MATCH	Match Properties
CP_OBJALIGN	Align Objects
CP_XYZSCL	Scale objects (unequally) in X, Y and Z directions
CP_MEANPOINT	Create a mean (averaged) point from a cluster of points
CP_FLIPZ	Flip (reverse) elevations(Z) from selected objects
CP_ROUNDOFF	Round Off Values from points/lines
CP_HATCHBOUND	Re-Create Hatch boundaries from HATCH object
CP_XTRACT	Extract from XREF
CP_XP_RETDAT	Explode objects - Retain Object Table and extended entity data
CP_HATCHAREA	Report on areas covered by HATCH objects
CP_FLIPARCS	Flip ECS of arcs with negative normals
CP_CHOP	Object Chopper
CP_AUTODIM	Automatic Dimensioning
CP_FACENORMAL	Control 3dface Face Normals
CP_CONTBREAK	Break(Split) objects along a polyline
CP_ZOOMENT	Zoom to extent of selected object(s) (with 5% margin)
CP_DELETELAYOUTS	Delete paper-space layouts
CP_NULLTEXT	Delete Null TEXT
CP_PURGEALL	Purge All Unused Symbols
CP_SCALECLEAN	Remove all unreferenced scales
CP_VISIBLE	Change object visibility
CP_REPURL	Search / Replace attached URL
CP_DIMPREC	Change Dimension Precision
CP_POLYCLIP	Clip an image along a boundary polygon
CP_IMAGETRIM	Trim an image along a boundary line
CP_SHAPEMANAGER	Analyze and manage geometric shapes
CP_LINEPLANEINT	Determine the intersection of line and plane
CP_DIVPOLY	Divide a 3/4 sided polygon
CP_JOINCOLLINEAR	Join collinear lines & polylines
CP_DWGAUDIT	Perform drawing audit and clean-up
CP_WIPEOUT	Create a WIPEOUT buffer around closed polygons
CP_HATCHINSVX	Insert vertex in hatch boundary
CP_HATCHDELVX	Delete vertex from hatch boundary
CP_GRIPHATCH	Display grips in hatches
CP_MOVEBAK	Move the backup .BAK files to a specified folder
CP_HATCHORIGIN	Change hatch origin

Viewports

CP_VPEXTRACT	Extract clipping boundary
CP_VPBNDRYUPDATE	Update clipping boundary
CP_LOCKVPCURLAYOUT	Lock All Viewports in current layout
CP_UNLOCKVPCURLAYOUT	UnLock All Viewports in current layout

CP_LOCKVPORTS	Lock Viewports
CPVPMAX (also as VPMAX)	Maximize a paper-space viewport
CP_VPMAXRESTORE	Restore original view setup after running VPMAX

Selection

CP_PLFILTER	Polylines based on properties
CP_FINDENCLOSED	Find points enclosed within 3dface space
CP_3DFFILTER	3DFaces based on properties
CP_ESELECT	Enhanced Entity Selector
CP_MAKESEL	Build Selection Set
CP_FINDZRNG	Find objects in selected Z range
CP_SL	Select Current Layer
CP_SS	Select Current Style
CP_LASTSEL	Put last CADPower selection in 'previous' sel.set

Inquiry

CP_SURFAREA	Compute Surface Area of 3DFACEs
CP_ANGLE	Display angle between two lines
CP_CGRAV	Compute Center of Gravity
CP_DWG_STAT	Display Drawing Statistics
CP_PERIMTR	Compute running distance/perimeter
CP_VISIT	Object Selection Browser
CP_Q	Quick elevation Info
CP_DXY	Enhanced DIST command

Layer

CP_LAYERMAN	Layer Names Editor
CP_ISOD	Isolate layer(s)
CP_RESTORE	Restore Isolated layer(s)
CP_SL_1	Save Layer State - 1
CP_SL_2	Save Layer State - 2
CP_SL_3	Save Layer State - 3
CP_RL_1	Restore Layer State - 1
CP_RL_2	Restore Layer State - 2
CP_RL_3	Restore Layer State - 3
CP_CCL	Change to current layer
CP_CPCL	Copy to current layer
CP_COPYLYR	Copy layer contents to another layer

More Options

CP_CHECKUPDATES	Check for CADPower updates
CP_DEBUGINFO	Display debug info about the computer and licensing
CP_SHOWPATHS	Show & browse important system & DWG paths
CP_CMDLIST	List GeoTools/CADPower commands
CP_CMDSEARCH	Search GeoTools/CADPower commands

CP_CCMDHELP   Display Specific Command Help
CP_LASTCMDHELP   Display help for last command

BricsCAD +

CP_DIMTXTEXTRACT   Extract text from dimensions