

Leadership Team:

Nainar Ramaswamy
Rakesh Rao
Varakumar Siddavatam

Key Focus Areas

- BricsCAD Distribution across India
- Software Development

Tool Design
Sheet Metal
AEC & Cloud
CAD Tools for productivity

Our mission : **Reduce the cost & complexity of engineering.**

Core Productivity Tools for dwg CAD

 ***CADPower***

 ***GeoTools***

What is CADPower?

- CADPower is a productivity software for .dwg CAD software like BricsCAD & AutoCAD
- Not aimed at any particular industry vertical – it is a must-have tool for all CAD users
- Our mission : **Reduce the cost & complexity of engineering.**
- Result:: **Work Smarter in CAD, not Harder!!**
- Over 250+ tools covering BOM-BOQ generation, Polyline, Conversion, Annotation, Miscellaneous, Inquiry, Text, Blocks & Attributes and More.
- Regular updates from user feedback, once every month.

Benefits of CADPower

- Increased operator efficiency
- Reduce CAD operator fatigue errors
- Commonly required CAD tasks automated
- Wide range of functionality - from generic CAD operations to file management, OS interface etc.
- Reduced fatigue & better CAD wellness for users.

History of CADPower

(and GeoTools)

- ▶ Launched in the year 1999 for the AutoCAD platform.
- ▶ Today in its 16th version, a new numbered release each year.
- ▶ Now runs on BricsCAD platform also identically since 2009.
- ▶ Over 1000+ companies using it in 35+ countries.

Automation Example...1

Editing part of a polyline is a cumbersome exercise – requiring a **COPY, EXPLODE, ERASE, JOIN** and **MOVE** operations in exact sequence – requiring 60+ keystrokes, 3+ minutes and operator fatigue.

CP_PARTEDIT tools reduce it to 3-5 keystrokes in a 2-3 second transaction

Automation Example....2

Creating running text annotations is everyday requirement for all CAD users.

CP_TC tool simplifies this task, enables complex text strings to be defined and patterns generated easily.

Shortens drawing creation/editing time.

Automation Example....3

Most engineering drawings are defined based on a reference grid. Construction grids, geographic grid & the like.

CP_CGRID tool simplifies this task, allows automatic and interactive rectangular and circular grids to be defined with ease.

Import / Export varied data

CAD data needs to be exported to neutral formats, like CSV, XML and the like.

CP_IMPEX, CP_ASCEXPRT,
CP_IMPORT2DM tools simplifies this task.

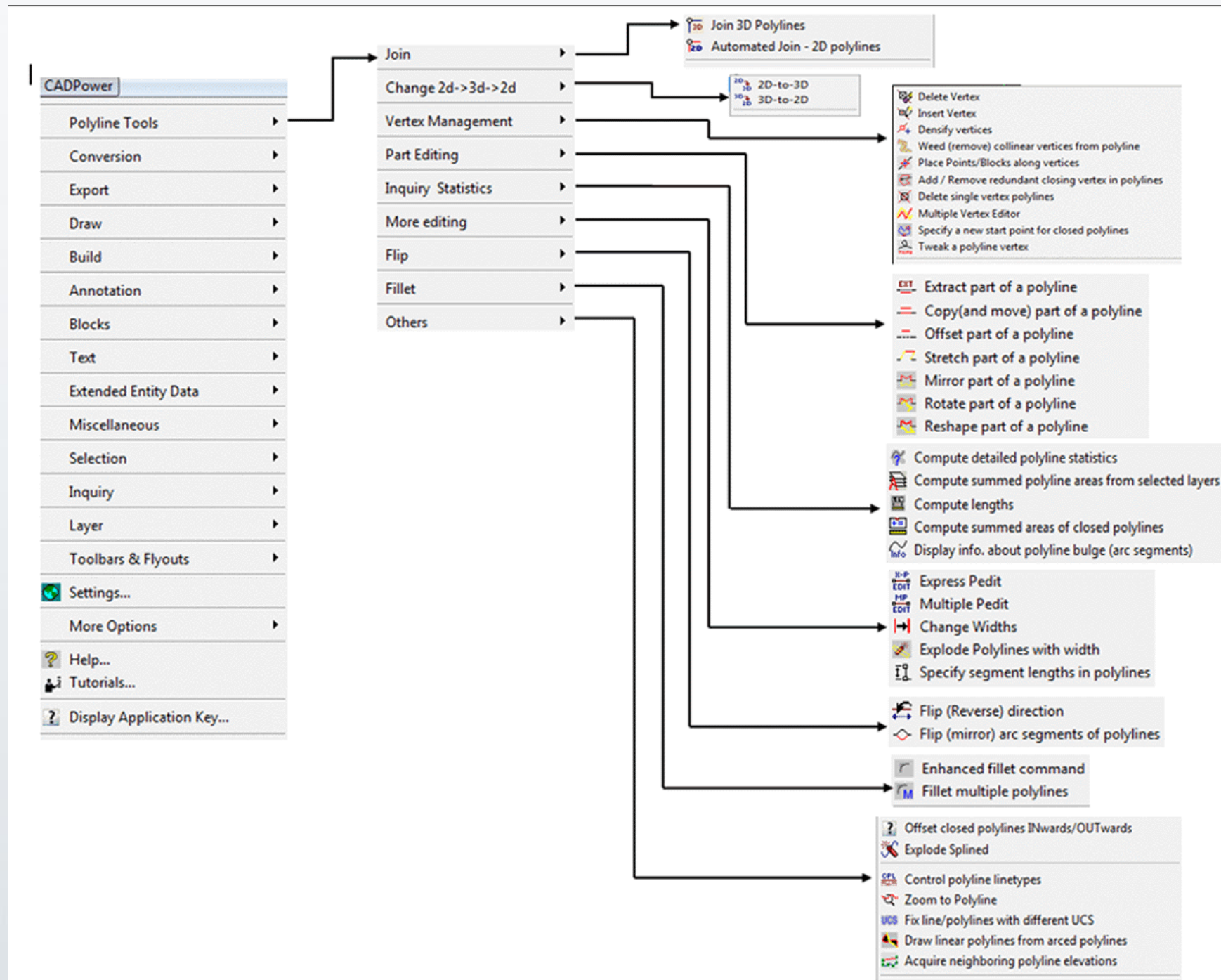
BOM-BOQ & Quantity Estimation

All dwg data must be quantified.

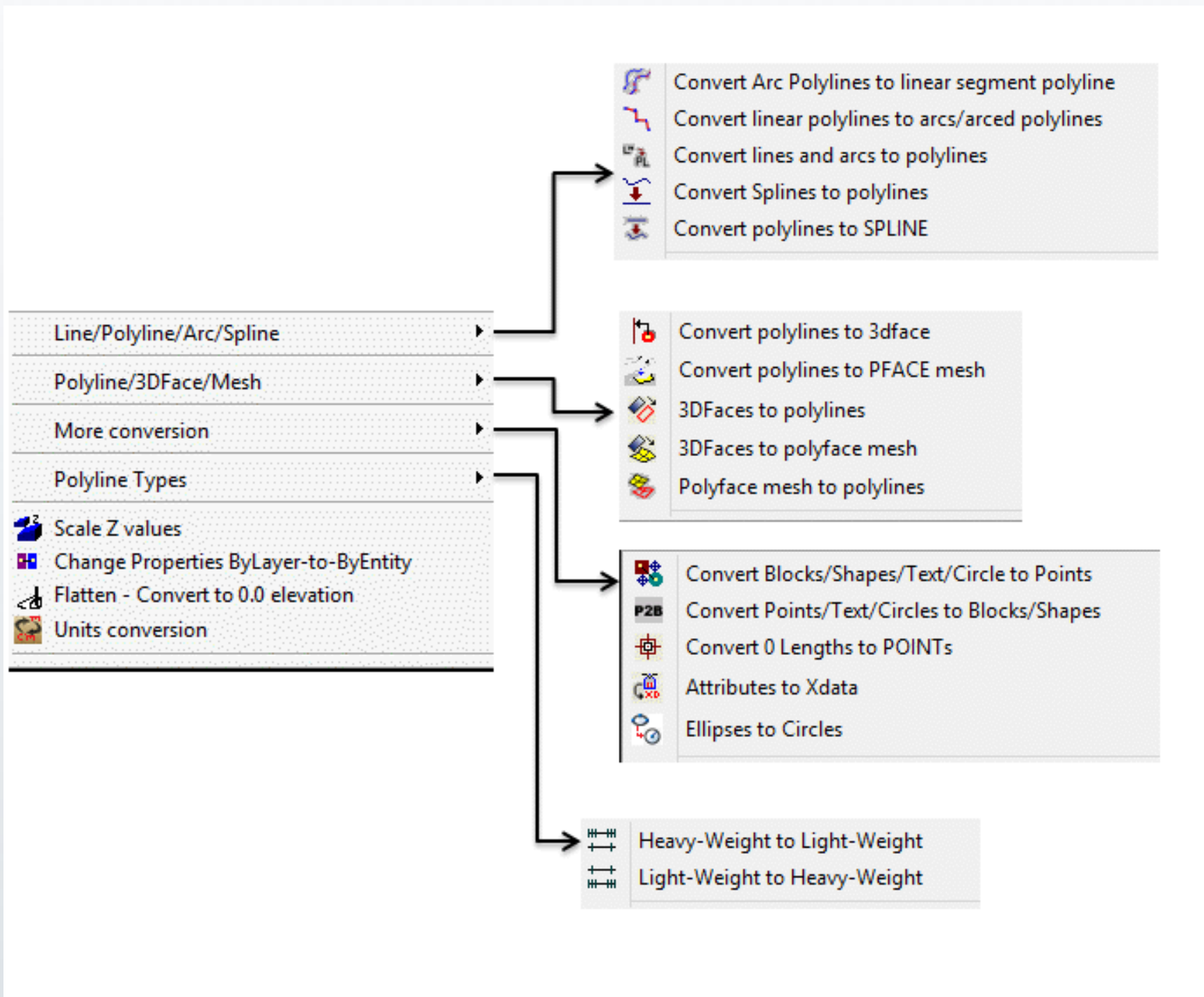
Advanced Cost & quantity analysis is usually done in Excel or other proprietary software.

CP_BOM family of tools allow flexible ways to compute dwg data, tabulate and export to Excel.

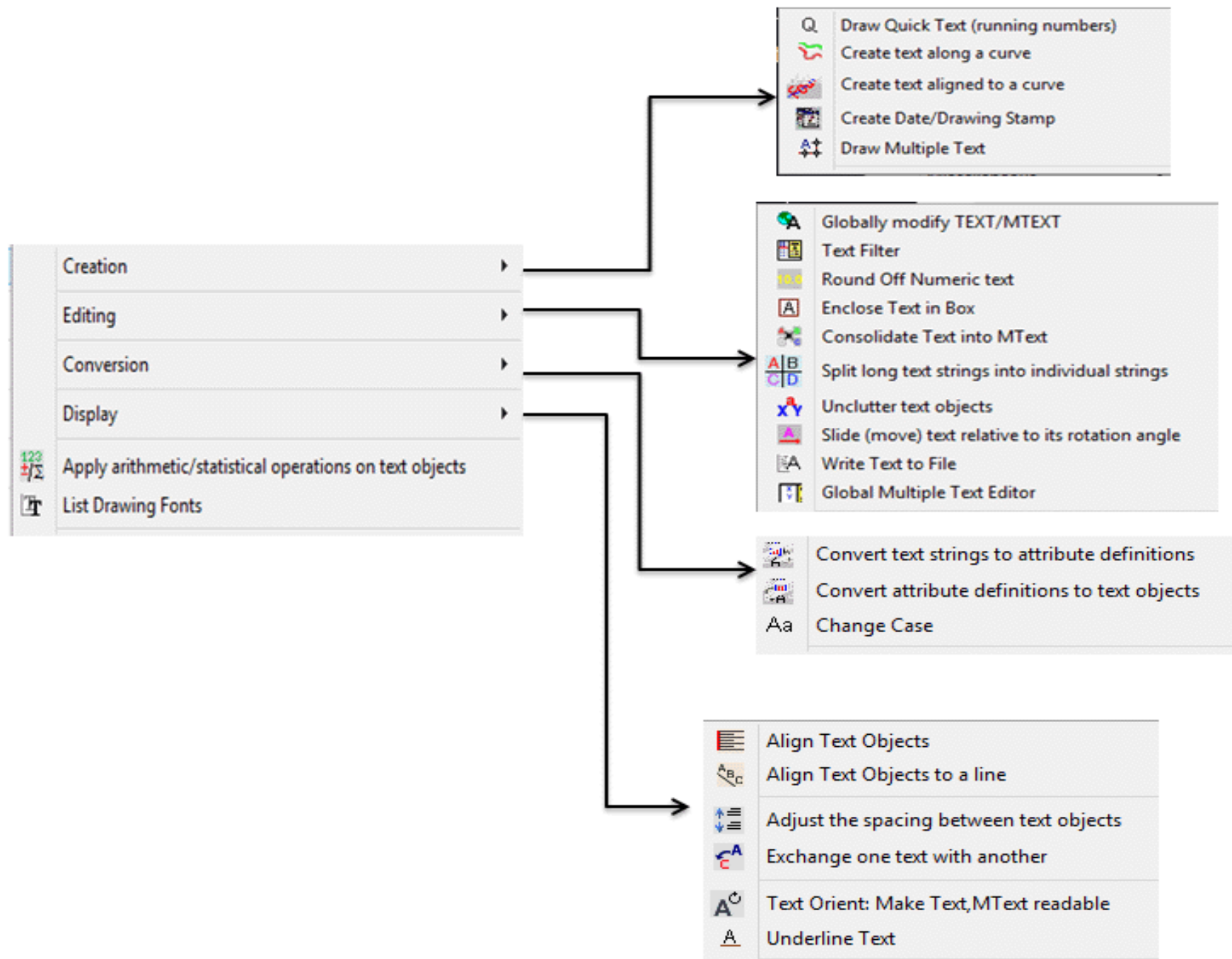
Polyline Tools












Conversion Tools



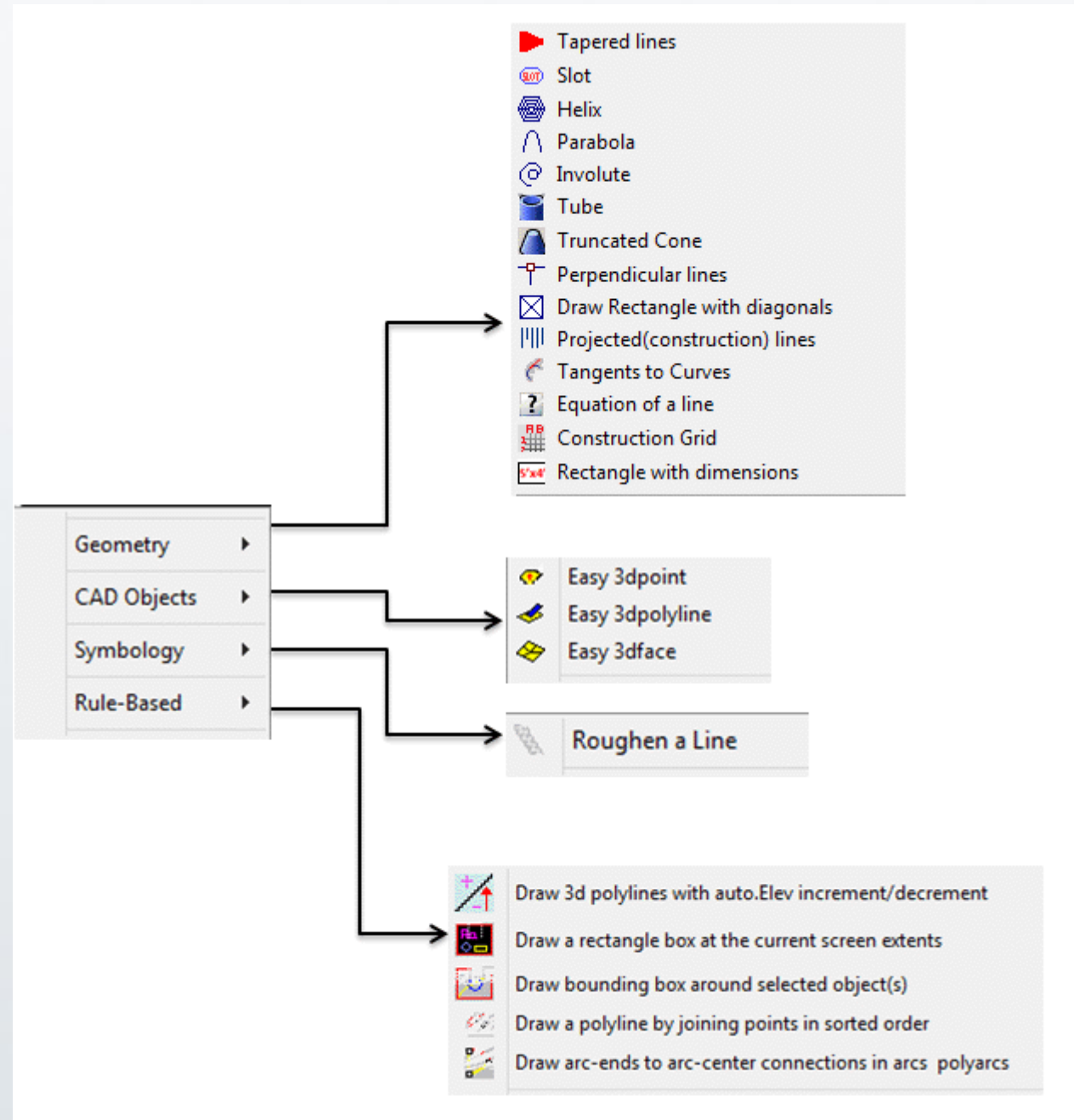
Text Tools



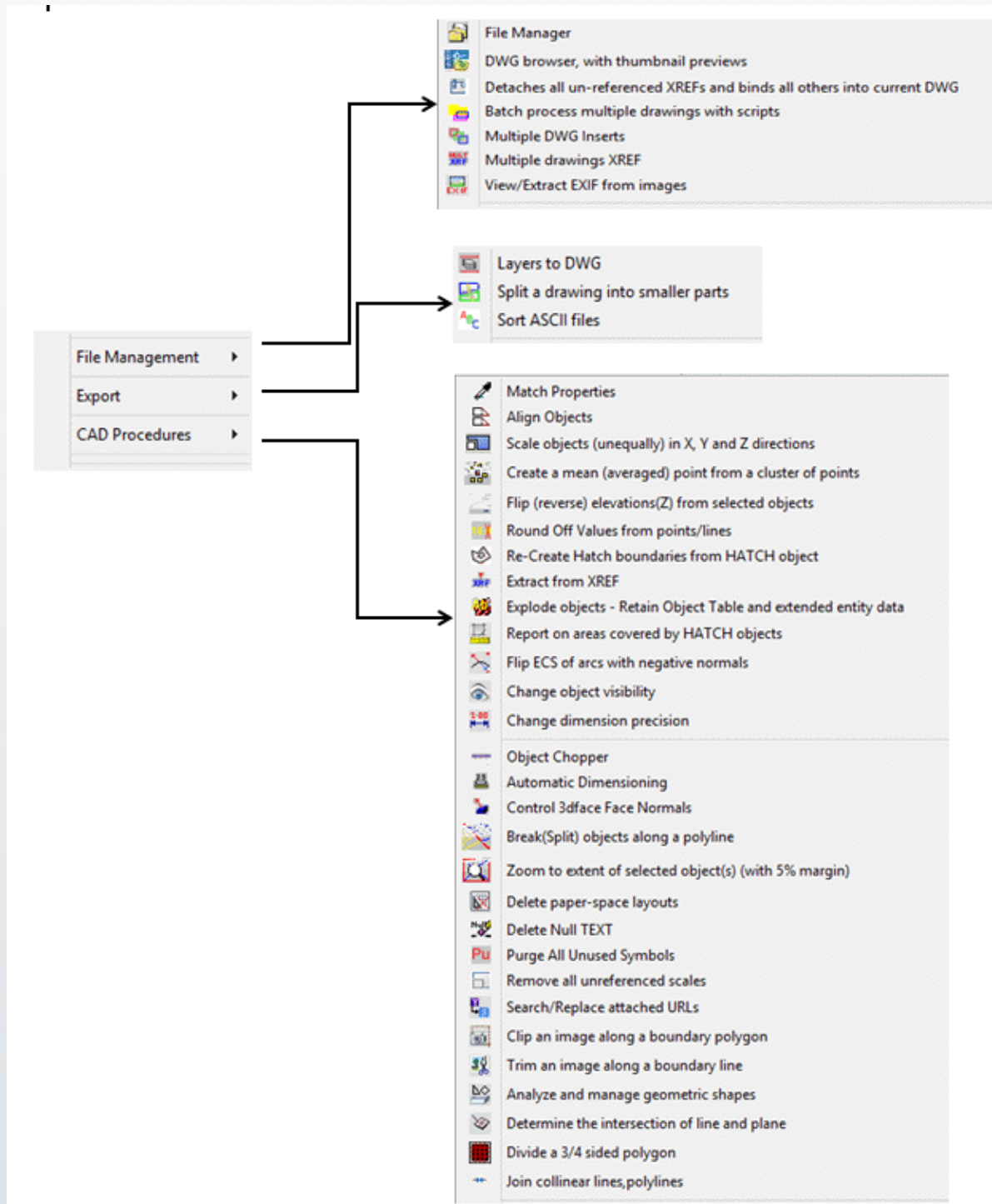
Annotation Tools

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

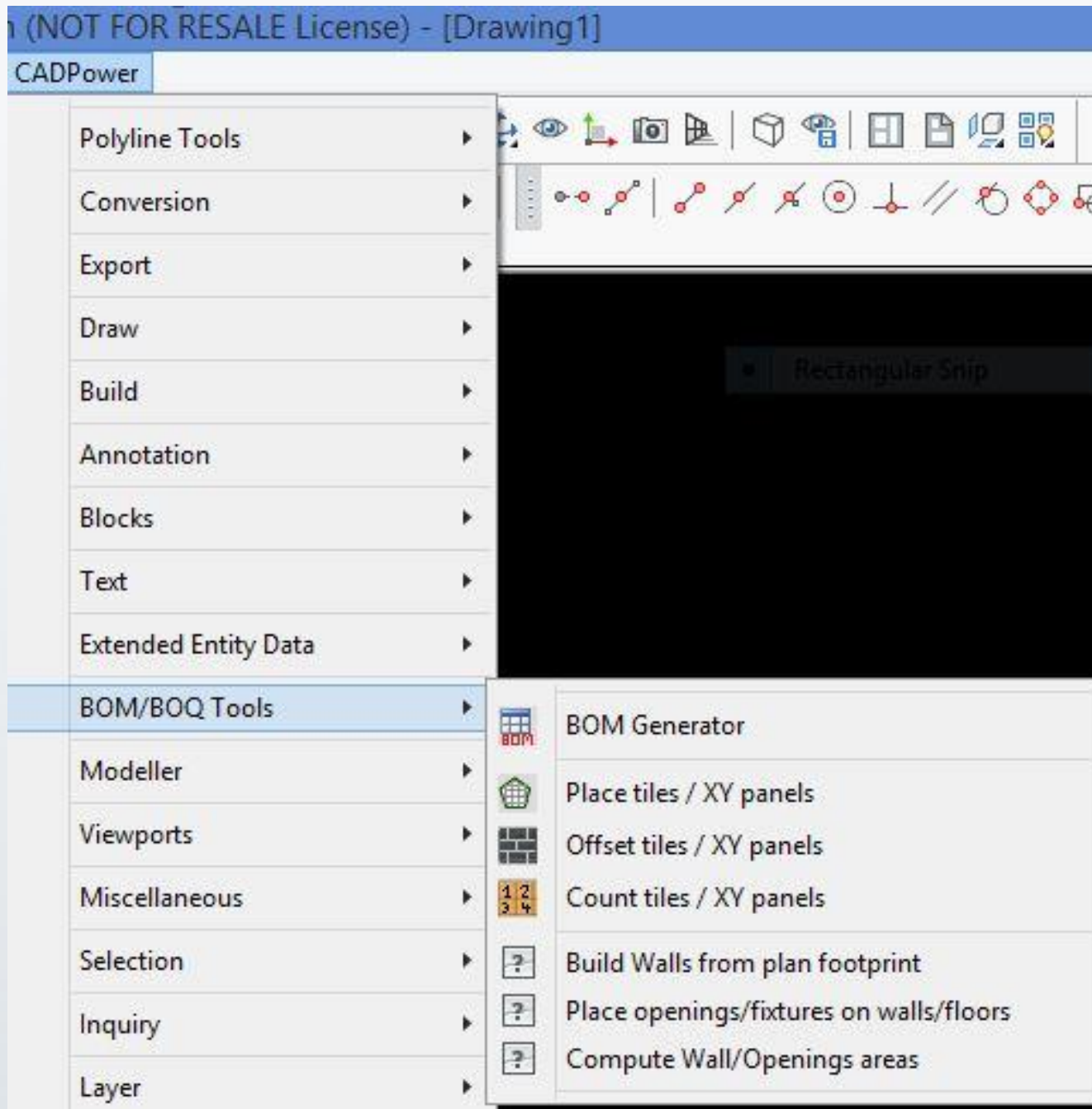
Draw Tools



Miscellaneous Tools



BOM-BOQ-Cost Estimation Tools












Blocks & Attributes Tools

- Block-related
- Attribute-related
- Search and replace text/attributes
- Edit blocks graphics and attribute properties independently
- Place Block - position attributes interactively
- Search Blocks for text strings









- Globally Modify Block Properties
- Replace Block
- Explode Block- Retain attributes as Text
- Compare Block attributes and create report
- Connect blocks based on attribute values
- Multiple Redefine Blocks-Lyr/Clr
- Explode only nested blocks
- Explode blocks to a specified layer
- Place a block along each segment of the polyline
- Trim lines/polylines along intersecting blocks
- Express Block Insert
- Repeat Last Block Insert
- Select and export Block to DWG
- Select and import Block from DWG
- Slide (move) relative to rotation angle

- Global Attribute Editor
- Multiple-Choice attribute editor
- Multiple-Choice attribute editor Setup
- Change block layers/color based on attribute values
- Extract Block attributes to file
- Transfer AutoCAD properties to Blocks Attributes
- Export Block Attribute Tags to ASCII file
- Rename block attribute tags, prompts and defaults
- Delete block attribute tags from block definition
- Move attribute
- Rotate attribute
- Make attribute readable
- Transfer Attributes between blocks
- Transfer Text strings to Block attributes
- Re-order attributes in a block

Selection Tools

-  Polylines based on properties
-  3DFaces based on properties
-  Enhanced Entity Selector
-  Build Selection Set
-  Find objects in selected Z range
-  Find points enclosed within 3dface space
-  Select Current Layer
-  Select Current Style
-  Put last CADPower selection in 'previous' sel.set

Inquiry Tools

-  Compute Surface Area of 3DFACEs
-  Display angle between two lines
-  Compute Center of Gravity
-  Display Drawing Statistics
-  Compute running distance/perimeter
-  Object Selection Browser
-  Quick elevation Info
-  Enhanced DIST command

Worldwide Users - Energy

Shell Canada (**Canada**)

Athabasca Oil Company (**Canada**)

Natural Gas Company SAC (**Peru**)

Universal Pegasus International (**Houston-USA**)

WSAtkins (**UK & India - Engineering**)

Equitable Gas (**USA**)

Kreibel Gas Wells (**USA**)

Piedmont Natural Gas (**USA**)

Western Kentucky Gas (**USA**)

Henderson Gas (**USA**)

Suncor Energy (**Canada**)

Albian Sands (**Canada**)

Peabody Energy (**USA - Coal**)

30+ Oil & Gas service providers (**USA, Canada, Europe**)

Global Users - Others

Phelps Dodge Mining (**USA**)

Cliffs Michigan Mining Company (**USA**)

Jinshan Gold Mines (**China**)

KAMEN dd (**Croatia**)

AECOM (**USA**)

WSP Civil (**Sweden**)

Louis Berger Group (**India**)

Users in India

Mineral Exploration Corporation Limited (**Nagpur**)

ACC & Ambuja Cements Mining Section (**across India**)

Vedanta Resources (**Hind Zinc Mining Unit - Udaipur**)

Independent service provider companies

Thank You!