

Equant Works User Guide

(2026)

Preface: Product Overview

Equant Works is a next-generation document management platform focusing on content enhancement and engineering workflows. Unlike traditional office software, Equant Works is designed to complement existing tools while providing specialized depth for industry scenarios. It features built-in construction estimation templates designed to significantly improve calculation efficiency.

Key Features

1. Unified Resource Explorer: View folders and documents simultaneously for quick access. Toggle between "Detail" and "Compact" modes to inspect document attributes easily.
2. Tabbed Multi-View Interface: Supports Split-View (Side-by-Side or Stacked) for easy cross-referencing and comparison.
3. Lightweight Document Engine: Built-in viewers for Office, PDF, DWG, and image files with basic editing capabilities. It also supports embedding MS Office, LibreOffice, and AutoCAD for full editing.
4. Auto-Backup & Recovery: Automatic document backup with version history and restore points.
5. Custom Properties (Metadata): Define custom attributes for folders/nodes to facilitate fast searching. These properties can serve as variables within documents—updating a property value in the panel automatically updates the referenced text in the document.
6. Formula Auditing: Dynamically analyze cell references and dependencies. Trace which formulas reference a specific cell for complete data transparency.
7. Tables support column formulas. Formulas are generated automatically during editing, with automatic subtotals calculated by section.
8. CAD/PDF Data Linkage: Extract quantity data directly from .dwg or .pdf drawings into spreadsheets. Modifying the drawing entity automatically updates the spreadsheet. Includes bi-directional tracing to locate drawing entities from spreadsheet data.
9. Built-in Estimation Templates: Includes standard templates such as Takeoff Sheets and Bill of Quantities (BOQ) for rapid project setup.
10. An integrated AI assistant provides features such as document summarization and translation.

I. Basic Functions(Free Plan)

1 . Interface Overview

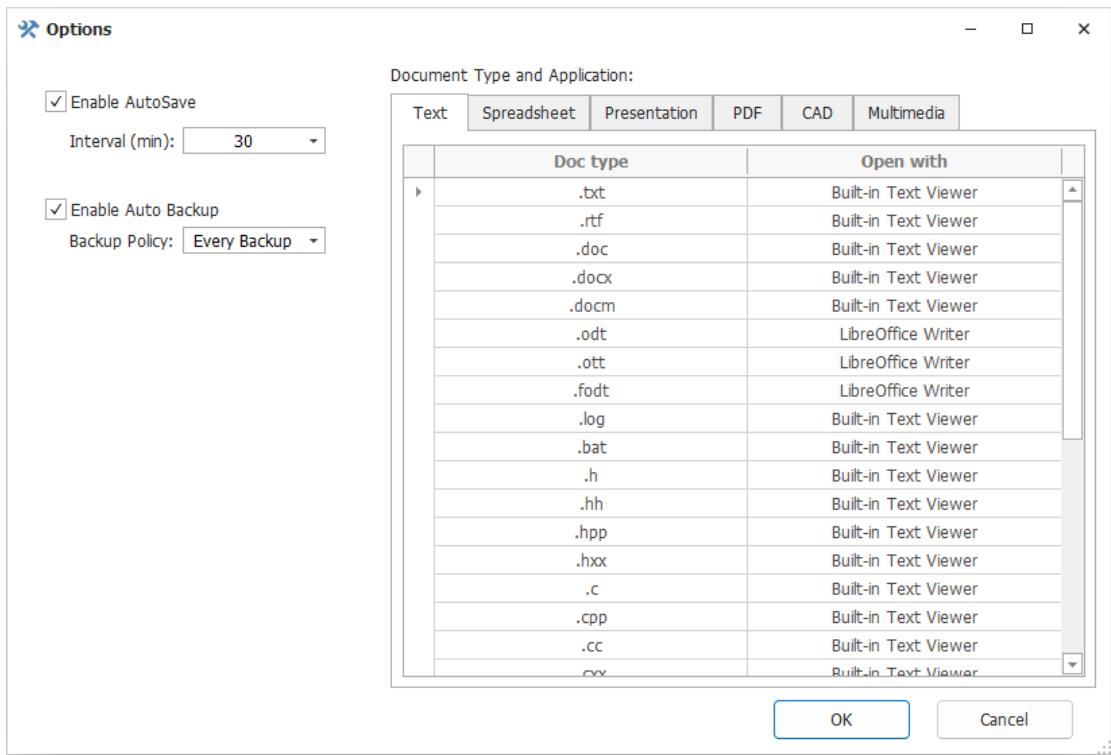
The screenshot shows the Equant Works software interface. On the left is a Resource Explorer pane listing files and folders on the local machine. The main area displays a spreadsheet titled 'BOQ1.xlsx' with data organized into categories like 'GENERAL REQUIREMENTS', 'CONCRETE', and 'HVAC'. The data includes columns for Item No., Category, Description, Quantity, Unit, Rate, Per, Amount, and Notes. Subtotals and grand totals are shown at the bottom of each category section.

Item No.	Category	Description	Quantity	Unit	Rate	Per	Amount	Notes
1	General	Mobilization & Temp Facilities	2	ls	15,000	ls	30,002	
2	General	Project Supervision	5	mo	8,000	mo	40002	
3	General	Temporary Utilities	6	mo	1,200	mo	7202	
Subtotal							77206	
1	Mechanical	Cast-in-Place Slab	15,000	sq ft	6.5	sq ft	97502	
2	Structural	Rebar Reinforcement	15	ton	2,200	ton	33002	
3	Structural	Concrete Vapor Barrier	15,000	sq ft	0.45	sq ft	6,752	
Subtotal							137256	
1	Mechanical	Galvanized Ductwork	4,500	lb	6.5	lb	29252	
2	Mechanical	Rooftop Units (RTU)	2	ea	12,500	ea	25,002	
3	Mechanical	Thermostats & Sensors	22	ea	250	ea	5,502	
Subtotal							59756	
Grand Total							274218	

The main toolbar is located at the top to maximize workspace. Standard functions are on the left, while system buttons (Account, Help) are on the right.

2 . General Options

Click the Options button() to open the preferences dialog:



AutoSave: Toggle automatic saving and set the interval (in minutes).

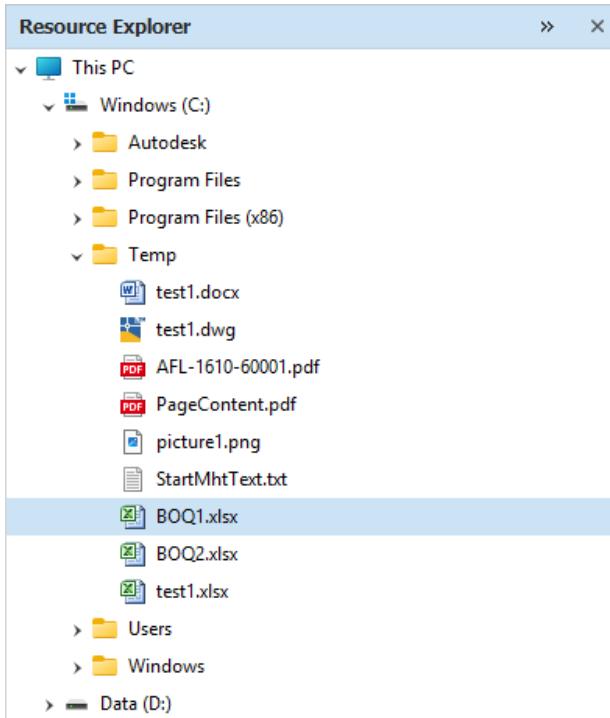
Default Applications: In the right-hand tab, configure which application opens specific file types.

Built-in Viewer: Lightweight, no third-party software required (supports Office, PDF, CAD).

External App: You can also set specific files to open with external apps via the "Open with" context menu in the Resource Explorer.

3 . Resource Explorer

The panel defaults to "This PC", showing all drives and folders. The default is the compact mode.



View Modes: Click to switch to details mode or to return to compact mode.

Name	Type	Size	Date created	Date modified	Open with
Windows (C:)					
Program Files			2024-04-01 15:26:06	2025-12-29 16:13:44	
Program Files (x86)			2024-04-01 15:26:06	2025-12-24 11:31:00	
Temp			2024-05-14 16:31:40	2025-12-29 16:49:55	
test1.docx	.docx	7.44 KB	2025-06-21 16:34:36	2025-12-27 18:28:50	Global Default
test1.dwg	.dwg	1.39 MB	2025-12-25 12:46:02	2025-12-27 18:28:11	Global Default
PageContent.pdf	.pdf	339.22 KB	2025-12-25 15:33:49	2025-12-29 16:51:09	Global Default
picture1.png	.png	137.37 KB	2025-06-21 16:37:26	2025-06-21 16:37:09	Global Default
StartMhtText.txt	.txt	1.8 KB	2025-12-25 15:34:23	2025-12-29 16:51:09	Global Default
BOQ1.xlsx	.xlsx	2.62 MB	2025-12-26 17:25:21	2025-12-29 14:02:32	Global Default
BOQ2.xlsx	.xlsx	6.11 KB	2025-12-26 17:28:19	2025-12-29 16:21:01	Microsoft Excel
test1.xlsx	.xlsx	4.84 KB	2025-12-25 12:45:35	2025-12-29 16:21:13	LibreOffice Calc
Users			2024-04-01 15:21:16	2025-12-23 23:08:41	
Windows			2024-04-01 15:21:16	2025-12-29 15:56:17	
Data (D:)					

Context Menu: Right-click a file for options like "Show in Explorer" or "Properties." Hold Ctrl + Right-click to access the native Windows system menu.

4 . Document Viewing & Layouts

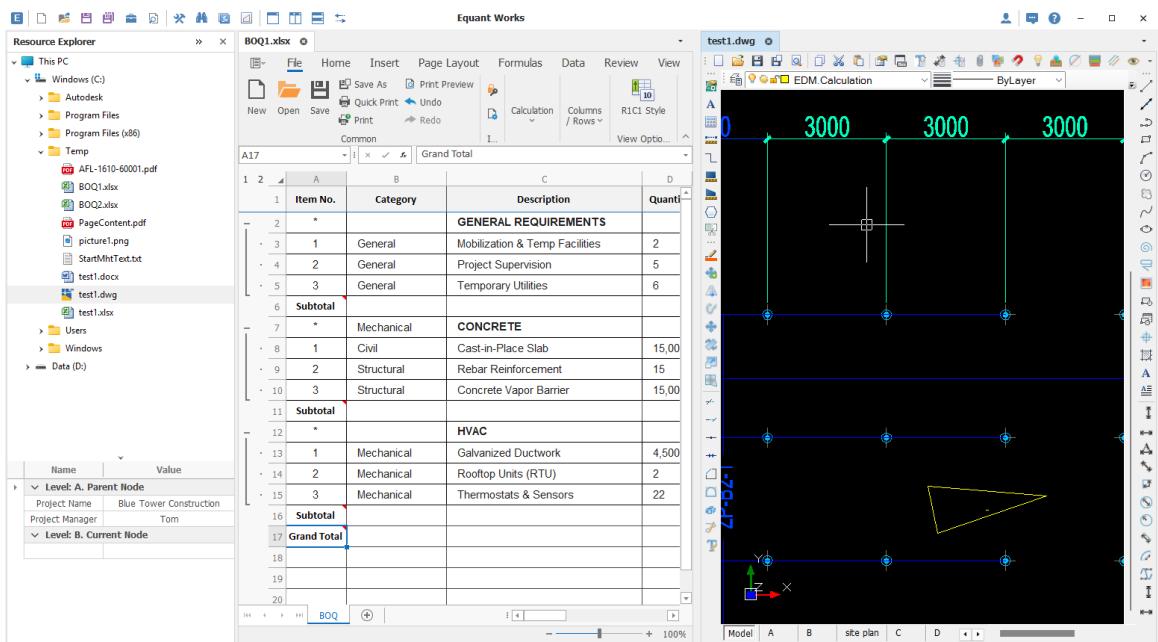
Double-click a file or select "Open Document" to view. Manage multiple documents with the following layout controls:

Side-by-Side View() : Arranges documents vertically (left/right).

Stacked View(): Arranges documents horizontally (top/bottom).

Reset Layout(): Returns to the default tabbed view.

Swap Panes(): Swaps the position of the document groups.



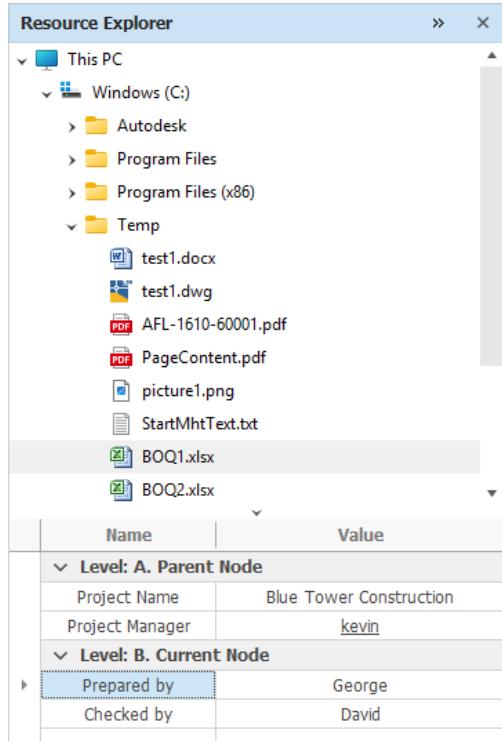
Note: The software remembers your last reading position.

5 . Custom Properties (Metadata)

5.1 Editing custom attributes

The custom properties panel can be hidden/shown via the buttons () on the resource panel splitter.

Hierarchy: Properties under "Parent Node" are inherited from the folder structure. Properties under "Current Node" apply only to the selected file.



5.2 Application of custom attributes

A、Search: Use properties as search filters.

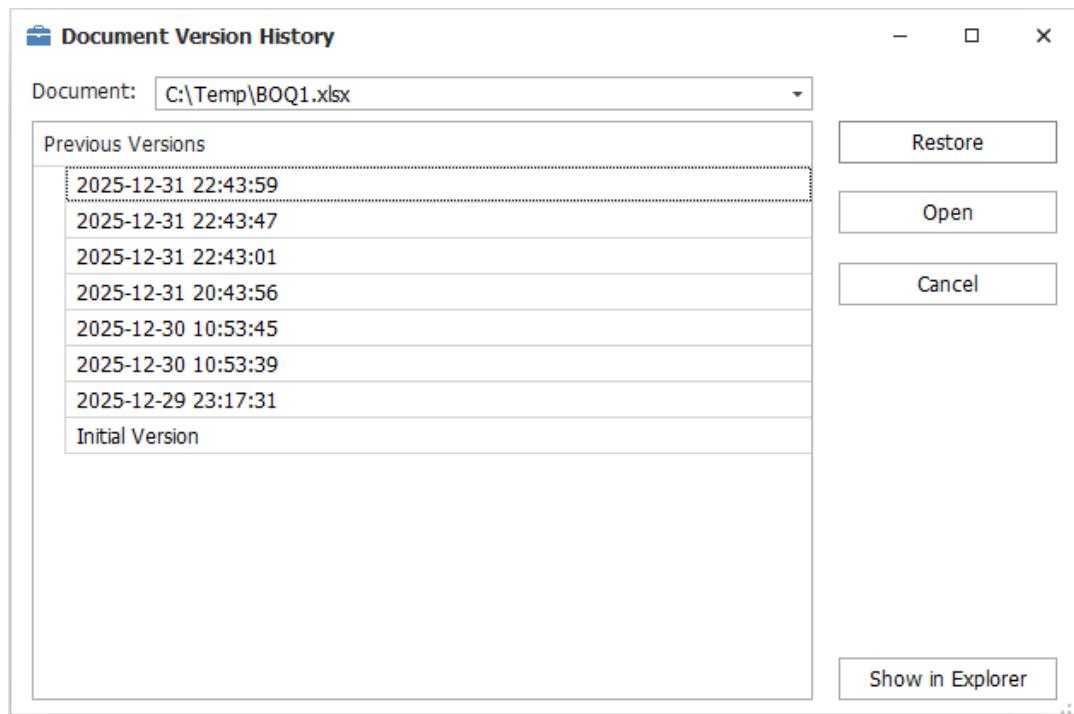
B、Variables (Pro): Inject properties into Word/Excel documents as variables. Changing the value in the panel updates the document content instantly.

The screenshot shows a Microsoft Word document with a table containing project information. The table has two rows and three columns. The first row contains 'Project Name' and 'Blue Tower Construction'. The second row contains 'Project Manager' and 'kevin'. The cell under 'Project Manager' is currently selected. A context menu is open over this cell, listing options: Cut (Ctrl+X), Copy (Ctrl+C), Paste (Ctrl+V), Insert Row, Delete Rows, Clear Cells, Use Property in Document (which is highlighted in blue), Use Parent Value, and Refresh All Properties in Document.

Name	Value
Project Name	Blue Tower Construction
Project Manager	kevin

6 . Backup & Recovery

Click the Backup History button() to view saved versions. Select a timestamp and click "Restore" to revert to that version.



7 . Search Documents

Click the Search button() to open the search panel.

Folder: Search by Current Folder/ Root Folder.

File Type: Types of documents to search.

Search in: Which attributes of a document are searched, such as the document name and custom attributes, The default is to search the entire text.

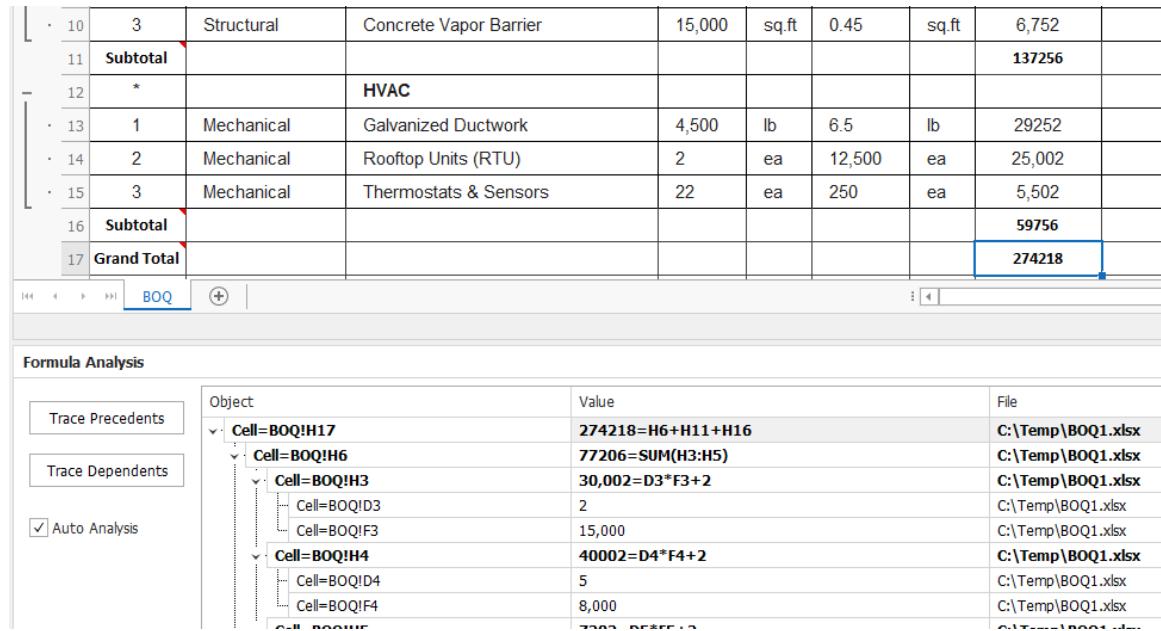
Keywords: Supports standard text or Regular Expressions (Regex).

The following is an example of search results; double-click to open the document:

Search Documents				
Folder:	Current folder	File type:	All	Search in:
		Search in:	File name	Keywords: .xls
				<input type="checkbox"/> RegularExpression
				<input type="button" value="Search"/>
	Found documents : 3		Size	Date created
→	C:\Temp\BOQ1.xlsx		2.62 MB	2025-12-26 17:25:21
	C:\Temp\BOQ2.xlsx		6.11 KB	2025-12-26 17:28:19
	C:\Temp\test1.xlsx		4.84 KB	2025-12-25 12:45:35
				2026-01-01 23:04:10
				2026-01-01 23:28:58
				2026-01-01 10:19:28

8 . Formula Analysis

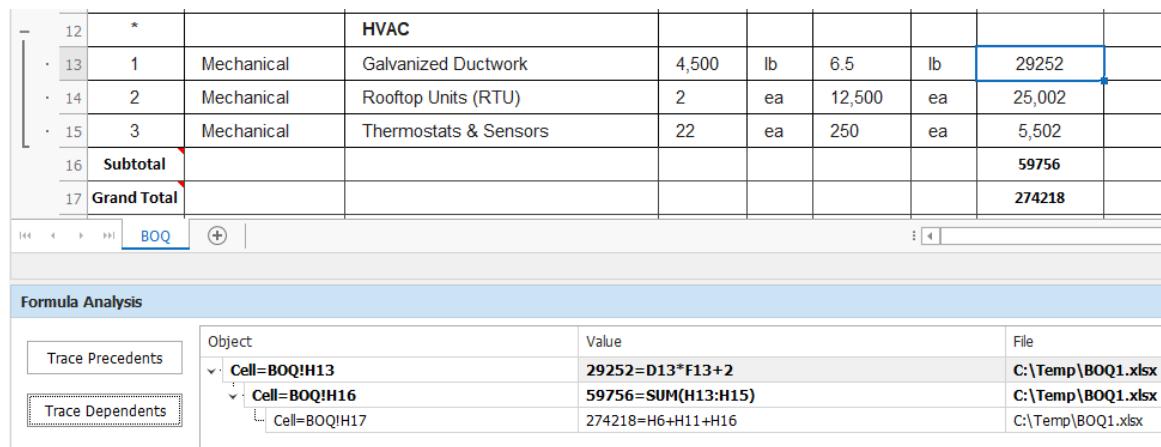
Click the Formula Analysis button() to open the Analysis pane. The software will automatically display the formula's reference data. If there are nested references, the analysis panel will display the relevant references hierarchically.



The screenshot shows a spreadsheet interface with a table titled "BOQ". The table includes columns for Item Number, Quantity, Description, Unit, and various cost metrics. A "Grand Total" row at the bottom right contains the value "274218". Below the table is a "Formula Analysis" pane. On the left of the pane is a sidebar with buttons for "Trace Precedents" (highlighted in red), "Trace Dependents", and "Auto Analysis". The main area of the pane is a hierarchical tree view of formulas. It starts with the cell "Cell=BOQ!H17" which contains the formula "274218=H6+H11+H16". This node has three children: "Cell=BOQ!H6" (containing "77206=SUM(H3:H5)"), "Cell=BOQ!H3" (containing "30,002=D3*F3+2"), and "Cell=BOQ!H4" (containing "40002=D4*F4+2"). The "Cell=BOQ!H3" node has two children: "Cell=BOQ!D3" (value 2) and "Cell=BOQ!F3" (value 15,000). The "Cell=BOQ!H4" node has two children: "Cell=BOQ!D4" (value 5) and "Cell=BOQ!F4" (value 8,000).

Trace Precedents: Shows which cells the current formula refers to (supports nested levels).

Trace Dependents: Shows which other formulas reference the selected cell.



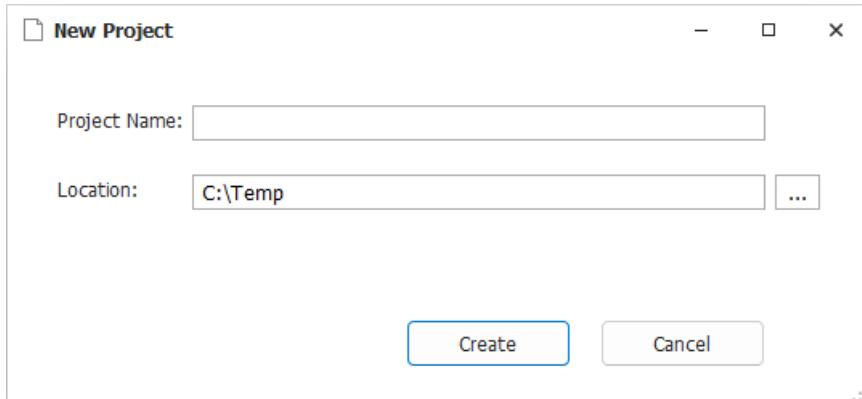
This screenshot is similar to the one above, showing the same BOQ table and Formula Analysis pane. However, the "Trace Dependents" button in the sidebar is highlighted in red. The Formula Analysis tree now shows dependencies. The root node "Cell=BOQ!H17" (containing "274218=H6+H11+H16") has a single child "Cell=BOQ!H16" (containing "59756=SUM(H13:H15)"). This child node has a child "Cell=BOQ!H17" (containing "274218=H6+H11+H16"), which is the same cell as the root node. This indicates a circular dependency between the sum formula and the individual item formulas.

Navigation: Clicking a node in the analysis pane jumps directly to that cell.

II. Advanced Functions(Pro Plan)

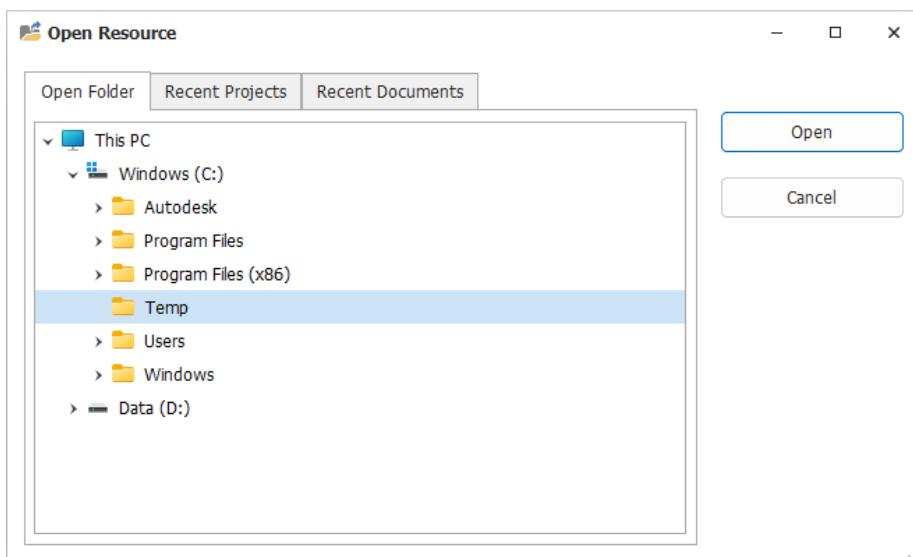
1. New Project

Click the New button() to create a new project. A "Project" corresponds to a physical folder on your drive. You can then right-click on the node in the resource panel to create a new subfolder or document.



2 . Open Project

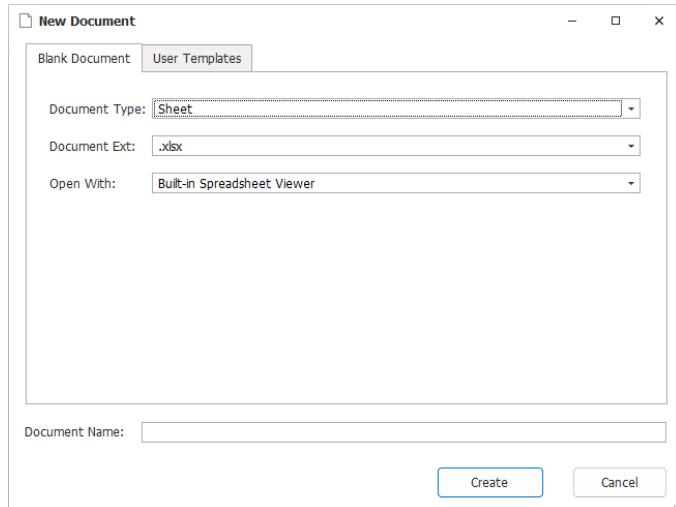
Click Open button () to Open the project or document. You can select any folder to open as a project. 'This PC' is equivalent to a special project.



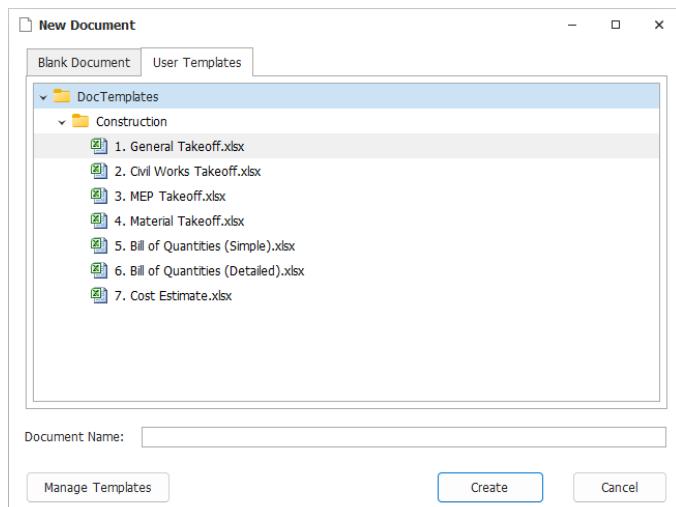
3 . Creating Documents & Templates

Right-click in the Resource Explorer to select New Folder or New Document.

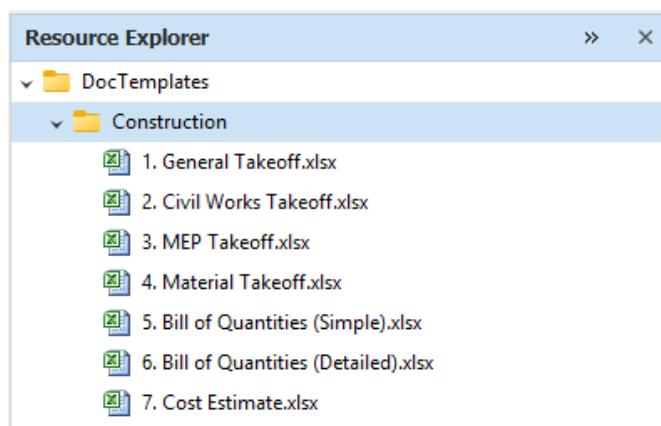
Blank Document: Creates an empty file.



User Templates: Choose from pre-loaded construction templates (e.g., General Takeoff.xlsx, BOQ.xlsx).



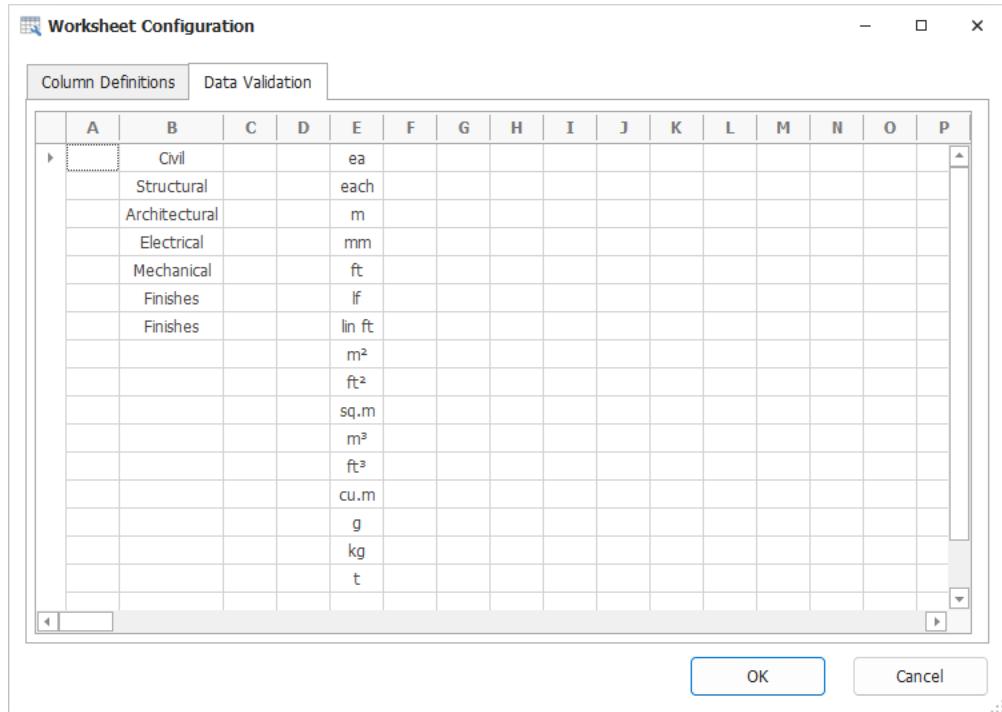
Click "Manage Templates" to add your own standard forms.



4 . Spreadsheet Configuration (Smart Columns)

Go to Ribbon -> File -> Worksheet Configuration.

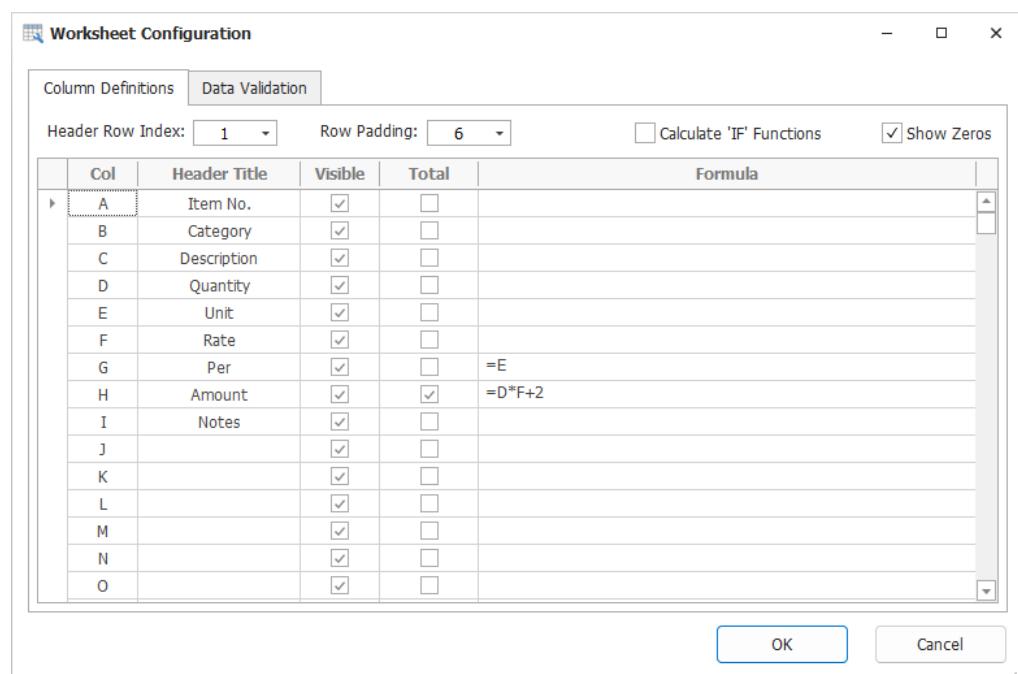
Data Validation Tab: Define dropdown lists for specific columns (e.g., Units: m, m², kg, ton).



Column Definitions Tab: Set up calculation logic.

Visible / Total: Toggle column visibility or enable automatic sub-totaling.

Formula: Define the back-end formula using column letters (e.g., =D*F+2). When you enter data in the sheet, the formula is applied automatically to that row, ensuring consistency and reducing errors.



The software will automatically generate the formula for the current row based on the formula settings in the background. This method achieves formula standardization (by pre-setting a template table) and avoids the errors that can easily occur when manually copying formulas.

B	C	D	E	F	G	H
Category	Description	Quantity	Unit	Rate	Per	Amount
GENERAL REQUIREMENTS						
General	Mobilization & Temp Facilities	2	ls	15,000	ls	30,002
General	Project Supervision	5	mo	8,000	mo	40002
General	Temporary Utilities	6	mo	1,200	mo	7202

5 . Grouping & summarizing

Define Section: Enter an asterisk * in the first column to mark a section header row.

Generate Totals:

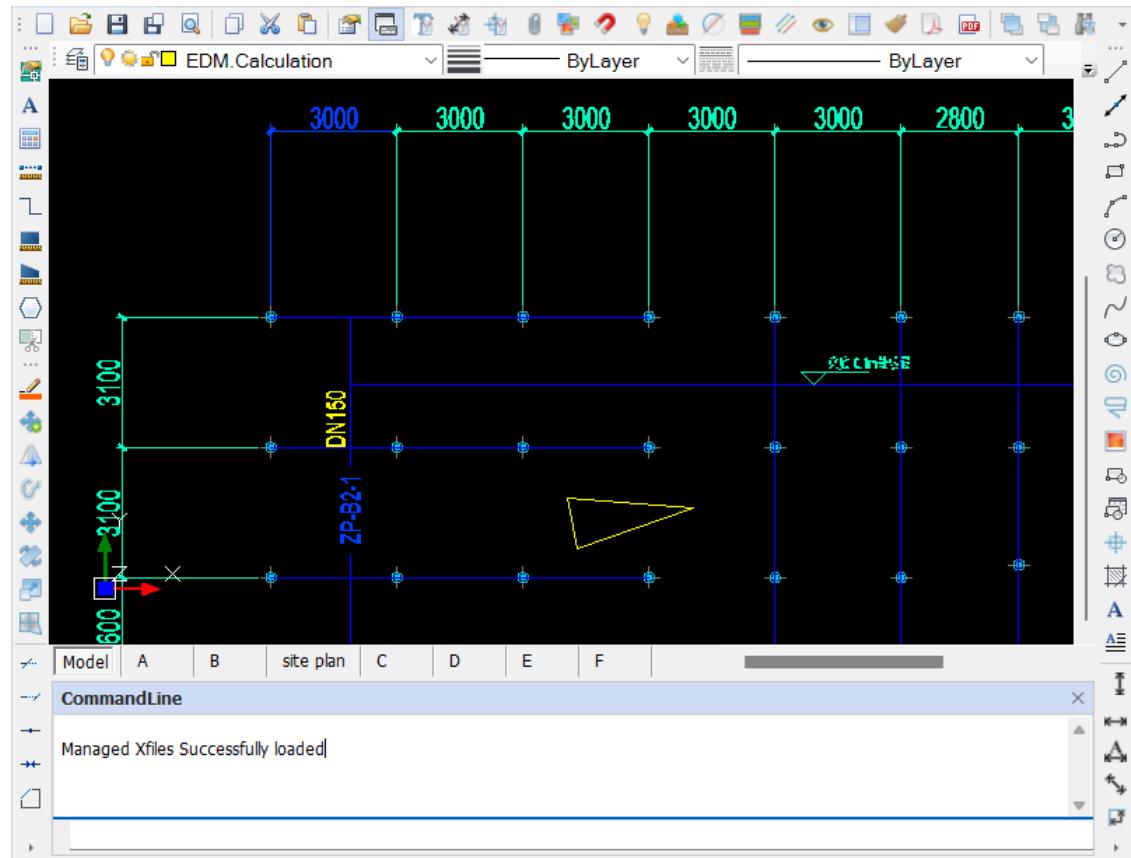
Method A: Right-click a row -> Set as Subtotal Row. This will generate a summary formula for that row.

Method B: Ribbon -> File -> Update Totals to batch-calculate all section summaries.

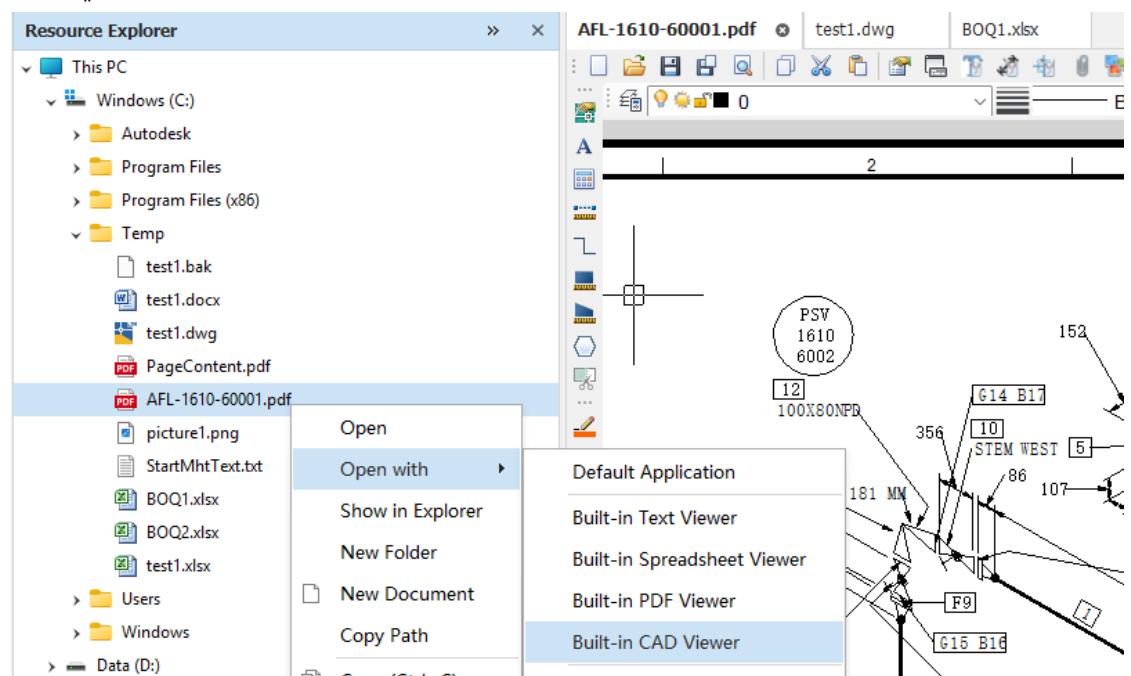
A	B	C	D	E	F	G	H	
Item No.	Category	Description	Quantity	Unit	Rate	Per	Amount	
*	GENERAL REQUIREMENTS							
1	General	Mobilization & Temp Facilities	2	ls	15,000	ls	30,002	
2	General	Project Supervision	5	mo	8,000	mo	40002	
3	General	Temporary Utilities	6	mo	1,200	mo	7202	
4	Subtotal						77206	
5	*	CONCRETE						
6	1	Civil	Cast-in-Place Slab	15,000	sq.ft	6.5	sq.ft	97502
7	2	Structural	Rebar Reinforcement	15	ton	2,200	ton	33002
8	3	Structural	Concrete Vapor Barrier	15,000	sq.ft	0.45	sq.ft	6,752
9	Subtotal						137256	
10	*	HVAC						
11	1	Mechanical	Galvanized Ductwork	4,500	lb	6.5	lb	29252
12	2	Mechanical	Rooftop Units (RTU)	2	ea	12,500	ea	25,002
13	3	Mechanical	Thermostats & Sensors	22	ea	250	ea	5,502
14	Subtotal						59756	
15	Grand Total						274218	

6 . CAD Takeoff & Measurement

The built-in CAD Viewer includes a specialized Calculation Toolbar for engineering takeoff. It supports both .dwg and vector .pdf files.

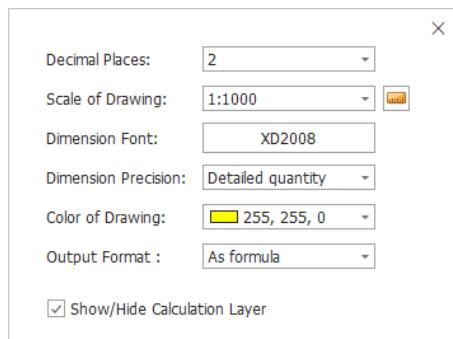


For drawings in .pdf format, right-click on the document node and select the menu->Open With-> Built-in CAD Viewer



6.1 Calculation Settings

Click the Settings button() to configure:

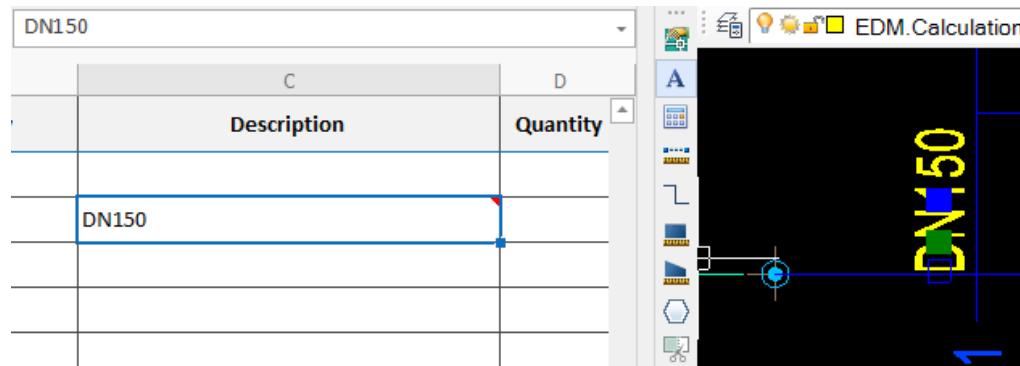


Scale: Set the drawing scale (e.g., 1:100, 1:1000).

Output Format: Choose whether extracted data enters the spreadsheet as a static value or a formula.

6.2 Extract Text

Click  to select text labels on the drawing (e.g., "DN150") and send them to the adjacent spreadsheet cell.



6.3 Count Items

Click  to tally selected entities.

6.4 Distance Takeoff (Line/Polyline)

Manual: Click  to draw/trace lines; the length is calculated upon completion.

Auto: Click  to batch-extract lengths from selected existing lines.

6.5 Area Takeoff

Manual: Click  or  to define a polygon area.

Auto: Click  to extract the area of a selected closed shape (e.g., a hatch or polygon).

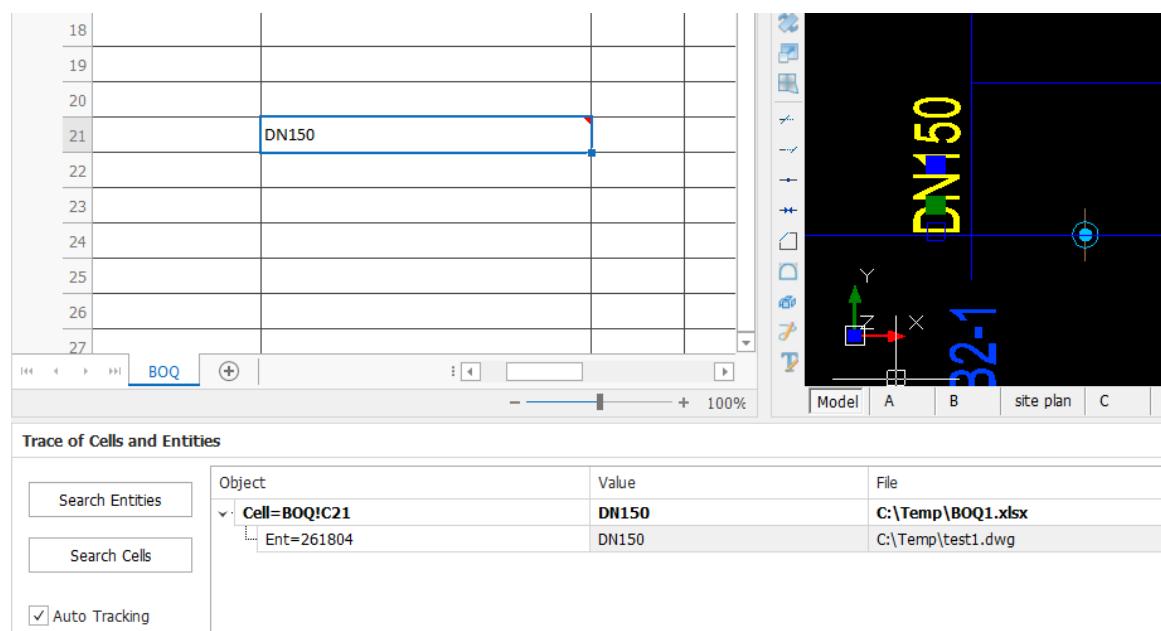
6.6 Capture Snapshot

Click  to screenshot a detail and paste it into the adjacent document.

7 . Entity Auditing (Bi-directional Linking)

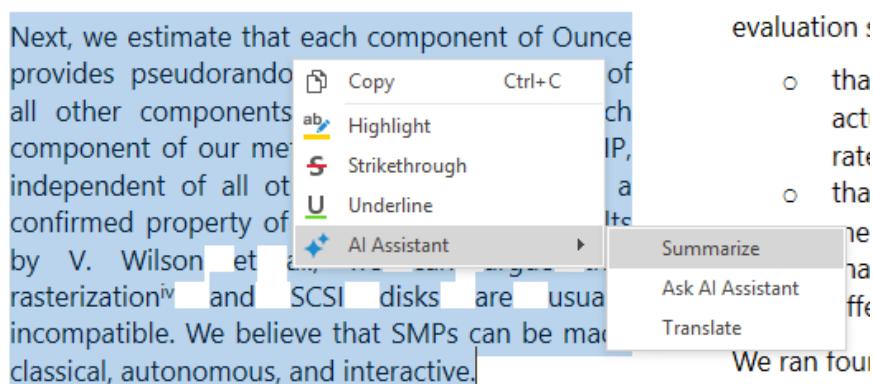
Click the Trace Entity button , Select a spreadsheet cell containing CAD data. The panel will list the linked entity ID.

Clicking the entity ID automatically zooms and pans the CAD view to highlight the specific entity, facilitating audit trails.



8 . AI Assistant

Right-click within any Text, Spreadsheet, or PDF document and select AI Assistant., You can then enter the AI interactive interface.



For example, clicking "Summarize" will bring up a summary window.

The diagram illustrates a process flow. On the left, a blue downward-pointing arrow labeled "Gateway" points to an orange trapezoid labeled "Strobe A". To the right of this flow, a screenshot of a software interface is shown. The interface has a title bar "evaluation seeks to prove three hypotheses" and a button "Summarize". Below the title bar, a dropdown menu "Text to process" is set to "Selection". A text area contains the following text:

The text discusses the properties of Ounce, suggesting that each component functions independently to provide pseudorandom theory and supports voice-over-IP. It asserts that this independence is a verified characteristic of Ounce, despite conflicting viewpoints. The author proposes that symmetric multiprocessing (SMP) systems can be developed to be classical, autonomous, and interactive.]

At the bottom right of the interface are two buttons: a clipboard icon and "Summarize".