



AutoPREP is AutoCAD's New Best Friend

Detailed Program Overview.....What is AutoPREP?

AutoPREP is a revolutionary new tool that operates within AutoCAD and can be utilized by virtually any discipline. Greatly enhance your design productivity by automating tedious, time-consuming tasks associated with AutoCAD files:

- ***Easily open drawing files with corrupt, unattached, or missing X-Refs.***
- ***Quickly separate files into Parent, X-ref, Missing, and Standalone sub-component files.***
- ***Greatly reduce file size by automatically removing redundant entities and simplifying user defined editing.***
- ***Systematically remove undesirable hatches, blocks, and nested block elements globally without exploding!***
- ***Automatically track all modifications to be seamlessly replicated and applied on all revision drawings.***
- ***Automatically compare, discern, and graphically delineate any and all modifications between drawings.***

Unproductive tasks that once took hours can now be accomplished in a matter of minutes. The cleanup process can be automatically repeated on revision drawings with built-in memory wizards and most features can also be batch file sequenced to allow multi-drawing processing with no additional user input! (*Patents pending on most features*)

Why You Need AutoPREP

You may not even realize how much time is spent on opening problem files or drawing preparation and cleanup as it has always been a necessary evil to perform prior to beginning productive work. Drawing files have steadily become larger and more complex with new and sophisticated entities both visible and invisible. Some complex drawings can consume as much time preparing a background as the actual work you're trying to accomplish, especially if you are inundated with continual revision drawings that require starting the entire process over and over again! AutoPREP solves all these issues and so much more! Calculate in your own mind the time savings and stress reduction as you read on.

"If you work with AutoCAD drawings you NEED AutoPREP! Once you use it, you will wonder how you ever managed without it!"

"Clean Up"

How does it Work?

AutoPREP can start working even before you open a drawing file! Have you ever been stopped dead in your tracks trying to open an AutoCAD drawing with missing, corrupt or disassociated X-Refs? The **"Host Manager"** can re-attach or bind all locatable X-refs from multiple files while resolving unattached, corrupt, or missing files. Problem files will be replaced to initially open the drawing and a complete error report is provided of all issues addressed by AutoPREP.

Upon opening the drawing, AutoPREP automatically removes invisible redundant entities such as duplicate Lines, Arcs, Circles, Text, Dimensions, Polylines, Hatches, and Blocks along with superfluous Reg. Apps or App. IDs. It can also convert resource intensive text into simple text of any desired font or size. In addition, you can remove blank layers or easily combine and reduce them with drag and drop simplicity.



“Block Editors”

Drawing files usually contain copious amounts of extraneous information for the entire project that occupy space needed for placing additional specialized design information. Unneeded entities must therefore be removed to allow space for your specific design work. Blocks usually make up a large part of this process so AutoPREP’s **“Block Editor Utility”** was created to greatly expedite the process by aiding in viewing and removing of all redundant or unessential blocks in a very systematic, user friendly process. The individual tile-through mode displays an isolated view of the block while highlighting it in the drawing. The user can then decide to keep or delete while clicking through the entire list. There is also a **“Multi-Screen Editor”** which displays all blocks simultaneously on a separate viewing screen that permits multiple editing by CTRL, SHIFT or WINDOW selection. All Blocks are displayed in order of magnitude and indicate the total number count utilized throughout the drawing. In minutes, hundreds of blocks and nested blocks can be reduced to only those necessary for your design. These delete tools work fine for blocks that can be removed in their entirety, but often times portions of a block are needed. This involved “exploding” the block to remove just the unwanted portions, but the process also created a multitude of additional blocks or individual entities. The ultimate block editor would be to simply delineate all unwanted items directly in the drawing with a cursor or selection window and have it apply to all like items throughout the drawing regardless of block association or nesting! AutoPREP’s amazing **“Dynamic Block Editor”** does just that by allowing you to edit all blocks directly within the drawing without exploding anything! Select any entity or group of elements utilizing single cursor select to window/crossing select and when finished, right-click. A dialog will appear indicating the number of selected items along with the total number of like entities, and their associated block names, that will be deleted throughout the drawing. Selecting Delete will remove all elements selected along with all like entities in the drawing. The **“Hatch Utility”** works very similar to the Block utilities and responds to the dynamic editing feature. **Can it get any better than this?** Yes! You will only need to perform these incredible time saving tasks **once**, regardless of future revision drawings, with AutoPREP’s built-in **“Memory Wizards”**

Automated Memory Wizards.....

Built-in **“Memory Wizards”** record each and every aspect of user input performed in cleaning and preparing the original drawing. With literally the push of a button, they can then be called upon to repeat and identically replicate all previous tasks on subsequent revision drawings. On large projects, this feature alone could save hundreds or even thousands of hours throughout the life of the project. The wizards can also prepare a complete set of project drawings. After cleaning the initial drawing of a like set you can utilize AutoPREP’s **“batch file”** feature to process the entire set, in a

Imagine spending the majority of your time on actual design, instead of having to perform the tedious and mundane non-productive tasks of drawing cleanup and preparation.

similar manner. Its built-in memory captures all tasks performed; including, but not limited to, automated duplicate entity removal, layer management, block and hatch editing. As you can now see, revision drawings are no longer a concern except for determining what modifications have been made to the revised drawings.

You guessed it! AutoPREP to the rescue again with the most amazing drawing compare utility ever created!



Drawing Compare/Review

Now that you have automatically cleaned and prepared the latest revision drawing, with the push of a button, you can utilize AutoPREP's **"Drawing Compare Utility"** to ascertain and define each and every revision throughout the drawing. This utility can then delineate all modifications by automatically placing a **"revision cloud"** around each added or deleted entity and/or text. It can also graphically illustrate modifications by converting the unchanged portion of the background drawing to a user defined solid color with added and/or deleted items depicted in **"contrasting colors"** within a drawing. This greatly simplifies determining required design revisions, change order costing and scheduling adjustments. A much more definitive and proactive method is also available by simply isolating the changes and displaying only the added and/or deleted items on screen. AutoPREP's **"Drill Down Zoom"** capability can also provide automated material and labor pick offs by filtering to specialized system components for compilation and transfer to third party pricing or scheduling programs. This will be especially useful for BIM-related projects.

Additional features....

You may often receive a file with hundreds or even thousands of drawings that need to be separated into parent, X-references or standalone files. In most cases you must open each and every drawing to determine its status.

AutoPREP's **"Host Drawing Manager"** feature automatically sorts all drawings into Parent, X-Ref, standalone and missing groups in a matter of minutes. The Host Drawing Manger automatically opens problematic drawings by fixing or replacing corrupt, missing or unattached X-Ref files in the batch process as well as automatically resolving AutoCAD crashes along the way. All issues are tracked and written to an **"Error Log"** for review. The utility will also automatically prepare email requests for replacement of corrupt, unrecoverable or missing files to replace the blank proxy files temporarily inserted to initially open the drawing. The **"Host Drawing Manager"** completely eliminates file failure frustration and time consuming drawing file type categorization.

AutoPREP-PRO

For the industrial strength users!

Anyone having to deal with numerous drawing files, with continual revisions, will realize the most productive feature AutoPREP has to offer: **"Batch processing"**. The variable quantity batch file utility of AutoPREP PRO can automatically perform most of the functions described above on hundreds or even thousands of drawings after you leave the office! As an example, in today's fast paced construction environment, general contractors are inundated with continual revision drawings that have little or no revision delineation or highlighted deltas. They are usually instructed to provide cost breakdowns within specified timeframes or forfeit cost changes. Teams of staff members are needed to scour the revised drawings to determine all revisions and then print out drawings to highlight changes for pricing. The contractor must also separate the files into parent, X-ref and standalone, bind drawings as necessary, and resolve any issues prior to issuing them to all sub-contractors and vendors. Once the files are loaded in AutoPREP PRO's batch file process, it can perform all these functions automatically on hundreds of drawings without further human intervention. After cleaning, collating and comparing, all drawings can be sent to a printer or PDF with delineated modifications for review.



A log file is automatically generated to review the results of unattended tasks including any errors. It also provides a separate report of the number of changes to each and every drawing in the order of importance (most changes to the least). General contractors are also usually charged with issuing the revised drawings to all participating sub-contractors and vendors. Imagine having the automated ability to provide problem free, pre-cleaned, concise, reduced file size drawings to all project team members, with the ability to delineate any design changes for all disciplines. Consider the value of a tool that can so greatly assist with accurate and on-time performance on a project! AutoPREP can also compare drawing revisions between user defined issuances or automatically tile between numerous deltas, using the batch file process, long after project completion or anywhere in-between.

Architects, Engineers and Consultants

AutoPREP can also ensure “Original” drawing security while allowing issued drawings to be cleaned and prepared for background use by project team members. Specialty trades and services no longer need to be stymied by trying to remove unneeded entities from locked, PDF or Bit Map files to create needed space for specialty designs. These restricted file types also lose most of the valuable internal intelligence of the entities needed as a part of the background base to complete the design.

AutoPREP’s **“Drawing Cleanup Security System”**, Protects the “Original” drawing by allowing it to only be viewed or printed but never altered or edited. Upon opening the drawing in AutoPREP, the user is prompted that a copy of the original is being created for cleanup purposes and the original cannot be opened other than to view in protected mode. As added security the copy is embedded with a permanent time dated marker to designate it as “Not the Original”. There are also tracking options available to monitor use. This process should solve the dilemma presented to all project teams faced with design needs vs. security issues.

Utilizing AutoPREP’s compare feature in unique industry specific ways can produce additional benefits for anyone performing design modifications or wishing to gage production. Design professionals no longer need to track each design revision and can work uninterrupted until all modifications are complete. Deltas can then be generated by comparing the initial drawing file against the completed revision and placing “revision clouds” to user specified parameters around each and every modification. The same process can be used between any two or more time dated drawings to ascertain work performance by highlighting added or deleted designs in red or blue (or any user defined color scheme) on a solid colored background of all unchanged entities.

One Tool for So Many Users.....

AutoPREP PRO can also be utilized by Engineers, Consultants, or anyone that uses AutoCAD in a dynamic, collaborative design environment. Dealing with continually changing drawings will no longer diminish your design productivity. Architects can also delineate all “Revision Clouds” after the fact instead of continually keeping track of them on the fly. The X-Ref feature can greatly assist with layer management and quality control by allowing graphic layer delineation of all entities within all X-Refs in rapid succession. It can also be used to gage productivity by comparing to show how much work has been completed within any given timeframe.

(PATENTS PENDING FOR ALL FEATURES AND INNOVATIVE FUNCTIONALITY)

