

What's new in GstarCAD 2027 — GstarCAD 2027

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GstarCAD 2027 has undergone a comprehensive upgrade in performance and functionality, achieving a full-chain performance leap in image libraries, display, and general operations. It introduces core features such as dynamic block parametric constraints, floating graphics windows, command line reconstruction, custom batch plot order, and expanded hatch boundary sets, significantly enhancing operational efficiency and user experience.

[Performance Improvements](#)

The three core modules—image library, display, and general operations—have been comprehensively optimized, achieving a full-chain performance leap from loading ultra-large drawings (1G to 30G) to daily editing commands. Specifically, file opening speed has nearly doubled, regeneration efficiency is 7.6 times faster than the previous version, and file closing performance has improved by over 8 times, significantly enhancing overall operational smoothness.

New Features

[1?Dynamic Block Parametric Constraints](#)

Apply constraint parameters to selected objects or convert dimensional constraints into parametric

constraints. In the Block Editor, use the BCPARAMETER command to apply constraint parameters to an object or between constraint points on objects.

[2?Floating Drawing Tabs](#)

You can drag a drawing file tab away from the application window to create a floating window.

[3?Command Line Reconstruction](#)

The command line has been completely upgraded, with comprehensive optimizations to its appearance, functional operations, and interaction logic.

[4?Batch Plot: Supports custom modification of the plot order](#)

The new version of the batch plot feature supports custom modification of the plot order. When plotting multiple copies, you can set the plotting sequence to either plot by page or plot by copy.

[5?Hatch: The boundary set now includes a "Use Current Drawing"? option](#)

The new version introduces the "Use Current Drawing" option. If users need the boundary search to extend beyond the viewport, they can now use the entire drawing as the hatch boundary set.

[6?Add Confirmation Prompt for Exiting Full-Screen Mode](#)

In actual production scenarios, users may accidentally exit full-screen mode due to unintended shortcut key triggers or edge operations, which disrupts the continuous design workflow. To resolve this issue, this release introduces a dedicated confirmation prompt feature for full-screen mode exit operations.

[7?Plot Preview Toolbar Upgraded to Modular Integrated Functional Panel](#)

In this release, we have completed architectural optimization of the Plot Preview module, with a full upgrade of the legacy toolbar to a modular, integrated functional panel. The panel supports both docked and floating modes, and is fully compliant with the platform's unified interaction specifications. This upgrade effectively streamlines the operation workflow, minimizes operational errors, and significantly boosts working efficiency in drawing and plotting scenarios.

[8?Display optimization](#)

The new version significantly improves overall GPU utilization and optimizes the interactive experience for various operations when hardware acceleration is enabled. In core scenarios such as drawing file opening, editing, and display, performance has been enhanced by 30% to 80%. Complex operations can see speed improvements exceeding 90%. Additionally, the smooth line display effect has been refined, delivering a smoother and more efficient drawing experience.

Note: For reference to the improved features of GstarCAD 2026, please see "[What's new in GstarCAD 2026](#)"

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