ZINGCUT Software Interface Layout Guide

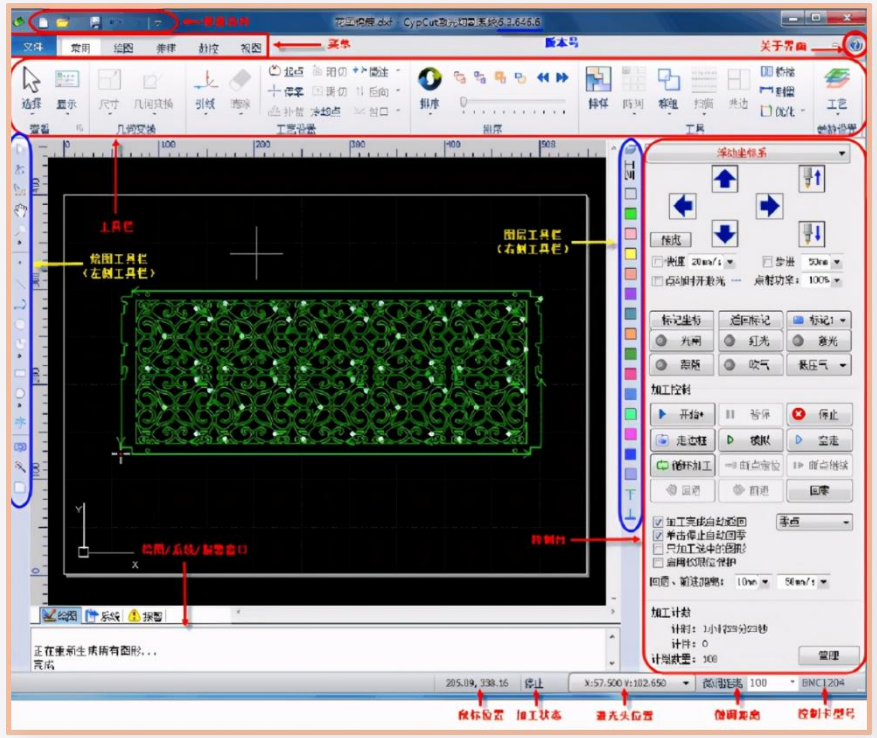
An Introduction to Efficient Cutting & Drawing Software

2026 Software Design Series: From Interface to Output, Optimizing Workflow and Efficiency

CONTENTS

Learning Objective:Master the five core modules, understand the software's operational logic, establish a standardized workflow, and lay a solid foundation for efficient design and production.

01 Overall Layout Overview



Streamlined interface design for maximum operational efficiency

Top Function Hub

Contains ten core function menus, serving as the entry point for all software commands. Each menu corresponds to a different operational module.

Central Core Workspace

Integrates shortcut icons, side panels, and the drawing area. The main interface for daily operations and parameter adjustments.

Bottom Equipment Console

Integrates equipment operation, task execution, and status monitoring in one, providing intuitive control over equipment status and production safety.

02 Top Menu Bar Overview

01
File
Manages import, save, export, and device parameters. The central hub for the entire file lifecycle.

02
Select
Offers multiple selection methods like single-point, area, and property-based selection for quick and accurate target location.

03
Edit
Provides flexible editing of selected graphics, including copy, rotate, scale, and layer sorting for design layout.

04
Industry
Offers professional tools for advertising, garment, and milling cutter industries, deeply integrating with professional needs.

05
View
Adjusts display styles, showing auxiliary grids and markers for comprehensive visual control.

06
Page
Performs intelligent nesting and splitting for large-format materials, achieving efficient nesting and cutting to maximize material utilization.

07
Draw
Includes basic shapes, Bezier curves, and other drawing tools, supporting the creation of industry-specific standard patterns.

08
Info
Displays real-time information like dimensions and node counts, and supports task allocation for dual-beam cutting equipment.

03 Central Toolbar Functions

Integrates 58 core function entry points, transforming complex operations into intuitive visual icons and scientifically categorized layouts, significantly enhancing creative efficiency.

Toolbar - Basic File & Drawing Measurement

01. Basic File & Undo Management

Clear Canvas: Quickly clear all graphics, reset the workspace, and start a new project with one click.

Multi-format Import: Natively supports mainstream industry formats, ensuring smooth and efficient file opening.

Batch Import: Conveniently add multiple design files at once, improving pre-processing efficiency.

Flexible Undo/Redo: Multi-level undo and redo functionality ensures design flexibility and operational security.

02. Drawing Measurement & Annotation Tools

Smart Selection Mode: Switch between multiple object selection modes, supporting point, line, and area selection for precise targeting.

Engineering-level Measurement: Accurately measure length and dimensions, with clear visual feedback for efficient design adjustments.

Precision Line Drawing: Draw arbitrary straight lines, with real-time display of length and angle for accurate drafting.

Rich Text & Markup: Add text labels and process parameters directly on the drawing for clear information transfer.

Toolbar - Graphic Transformation & Layout

01 Line Modification Class

Break: Split a line at any position, realizing flexible design and modification of complex contours.

Fillet/Round Corner: Perform fillet processing on sharp corners, optimizing the cutting path and improving product aesthetics.

Modify Start Point: Freely adjust the starting point of enclosed graphics, adapting to different processing techniques and optimizing cutting efficiency.

02 Graphic Transformation Class

Move/Copy: Quickly adjust the position of graphics or create duplicates, significantly improving layout efficiency.

Rotate 90°: Rotate graphics in 90° increments, adapting to material placement and saving layout time.

Snap to Axis: Automatically align graphics to the coordinate origin, standardizing design layout and facilitating precise positioning.

Toolbar - Positioning Optimization & Notch Processing

01 Positioning & Display Aids

Camera Recognition
Supports multiple positioning markers like circles and crosses, with precise visual positioning for rapid material alignment.

Key Point Visualization
Highlights cutting start points and all nodes, making the processing path clear at a glance.

Graphic Numbering
Automatically numbers each piece for easy production management and product tracking.

02 Toolpath Optimization & Notch

Offset
Achieve equidistant scaling of graphics, quickly creating inner and outer contours.

Line Merging
Automatically merge connected lines, reducing cutting breaks and improving efficiency.

Overlap Removal
Intelligently eliminate duplicate and overlapping lines, ensuring accurate cutting paths.

Multi-functional Notch Tool
Batch create T/U/V notches with customizable size and shape for diverse needs.

Toolpath Optimization
Optimize cutting sequence and entry/exit points, minimizing idle travel.

04 Side Shortcut Panels

Function Aggregation

Integrates commonly used functions into classified panels, making complex operations just one click away.

Batch Processing

Supports multiple graphic editing and optimization commands, freeing hands and greatly improving work efficiency.

Real-time Feedback

Specialized panels for milling cutters and manual sorting, providing real-time visual feedback and making parameter adjustments more intuitive.

Flexible Configuration

Customize the workspace layout according to personal work habits, creating a personalized design environment.

Common Editing & Optimization Panels

01 Common Editing Panel

Reverse Selection	Combine/Break Apart	Copy Array
Rotate/Mirror	Graphic Centering	Delete

Highlight:Integrates the most commonly used graphic transformation and copying functions, with intuitive operations.

02 Common Optimization Panel

Snap to Axis	Merge Connected Lines	Break Long Lines
Delete Redundant Nodes	Remove Overlapping Lines	

Highlight:One-click execution of multiple graphic preprocessing operations, saving significant manual adjustment time.

Milling Cutter & Manual Sorting Panels

Milling Cutter Panel

Core Process Functions

Integrate inner/outer contour offset, precise slotting, outer frame/card slot addition, automatic break at toolpath intersections and toolpath extension, fully covering core process needs for milling cutter machining.

Process Advantages

Deeply customized for milling cutter cutting scenarios, aligning with machining logic to reduce manual secondary adjustments and significantly improve cutting precision and production efficiency.

Manual Sorting Panel

Sequence Adjustment

Precisely adjust the graphic processing order with operations like move forward, backward, to top, to bottom, to customize processing priority and paths as needed.

Personalized Customization

Break free from default system sequences, support flexible manual intervention to handle complex layouts, special process paths and customized production needs.

Core Value:Adapt to milling cutter processes with professional functions, meet personalized needs with flexible sorting, and achieve dual improvement of processing precision and production flexibility.

05 Bottom Device Control Bar

As the core hub for software-hardware interaction, it integrates key control commands such as start, stop, and reset. It is the core window connecting digital design and physical processing, ensuring every cutting action is precise and controllable.

Bottom Device Control Bar Overview

The bottom control bar integrates equipment operation buttons for single-head, double-head, and dual-head sending, serving as the core hub for human-machine interaction. Through visualized buttons, it achieves intuitive management and control of cutting tasks throughout the entire process.

01 Core Processing Instructions

Task Dispatch

Send the optimized graphics to the cutting machine with one click, realizing seamless connection between design and production.

Automatic Cycle

Set up repeated cutting tasks to meet the needs of batch production and improve processing efficiency.

02 Auxiliary Production Control

Material Conveyance & Fixing

Integrated control of pulling, clamps, and suction to ensure stable and reliable material processing.

Equipment Calibration

Precise zero setting and origin return functions to ensure the accuracy of each cutting operation.

Software Application Scenarios

Professional CNC cutting solutions for vibrating knives, milling cutters, laser, and other equipment.

Advertising • Creative Cutting

Shaped cutting for KT board, acrylic, car stickers, etc. Meets personalized customization and mass production needs for advertising signs and display props.

Garment • Flexible Cutting

Precise pattern cutting for fabric, leather, etc. Adapts to diverse designs of clothing customization and home textiles, improving cutting efficiency.

Packaging • Rapid Prototyping

Small-batch production & sampling for cartons/color boxes. Flexibly copes with frequent design iterations, reducing proofing cost & time.

Home Decor • Customization

Cuts soft bags, carpets, insulation materials efficiently. Facilitates personalized customization of complex-shaped interior decoration projects.

Core Function: Intelligent Toolpath Optimization

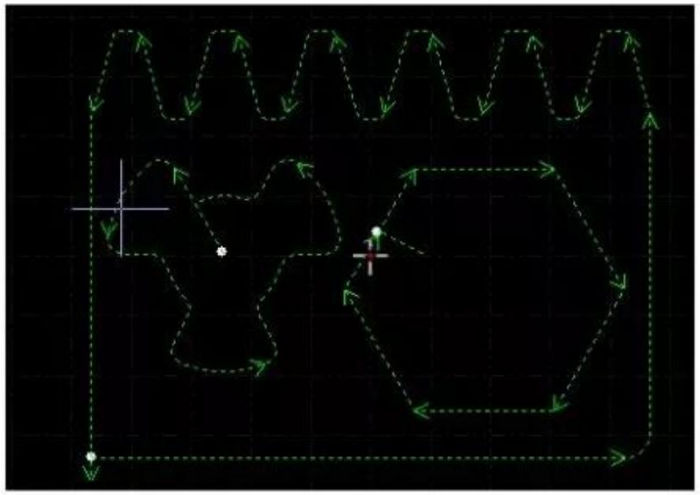


图1 切割图形

Based on advanced algorithm logic, the software can intelligently process complex graphics and generate highly efficient cutting paths, significantly reducing manual intervention and ensuring cutting quality and efficiency.

01 Automatic Recognition

Automatically identifies enclosed pieces and distinguishes inner and outer contours, laying the foundation for intelligent nesting and cutting.

02 Path Optimization

Automatically plans the shortest cutting path, reducing idle travel and improving processing efficiency while ensuring cutting accuracy.

03 Overcut Compensation

Automatically performs blade compensation to ensure cutting precision, especially for materials with strict dimensional requirements.

04 Smoothing Processing

Filters out micro-serrations and optimizes the cutting path, making the cutting edge smoother and enhancing the product surface finish.

Thank You

More software advanced function sharing is coming soon. Let's explore infinite possibilities together.