Zünd Cut Center – ZCC The software suite for digital cutting



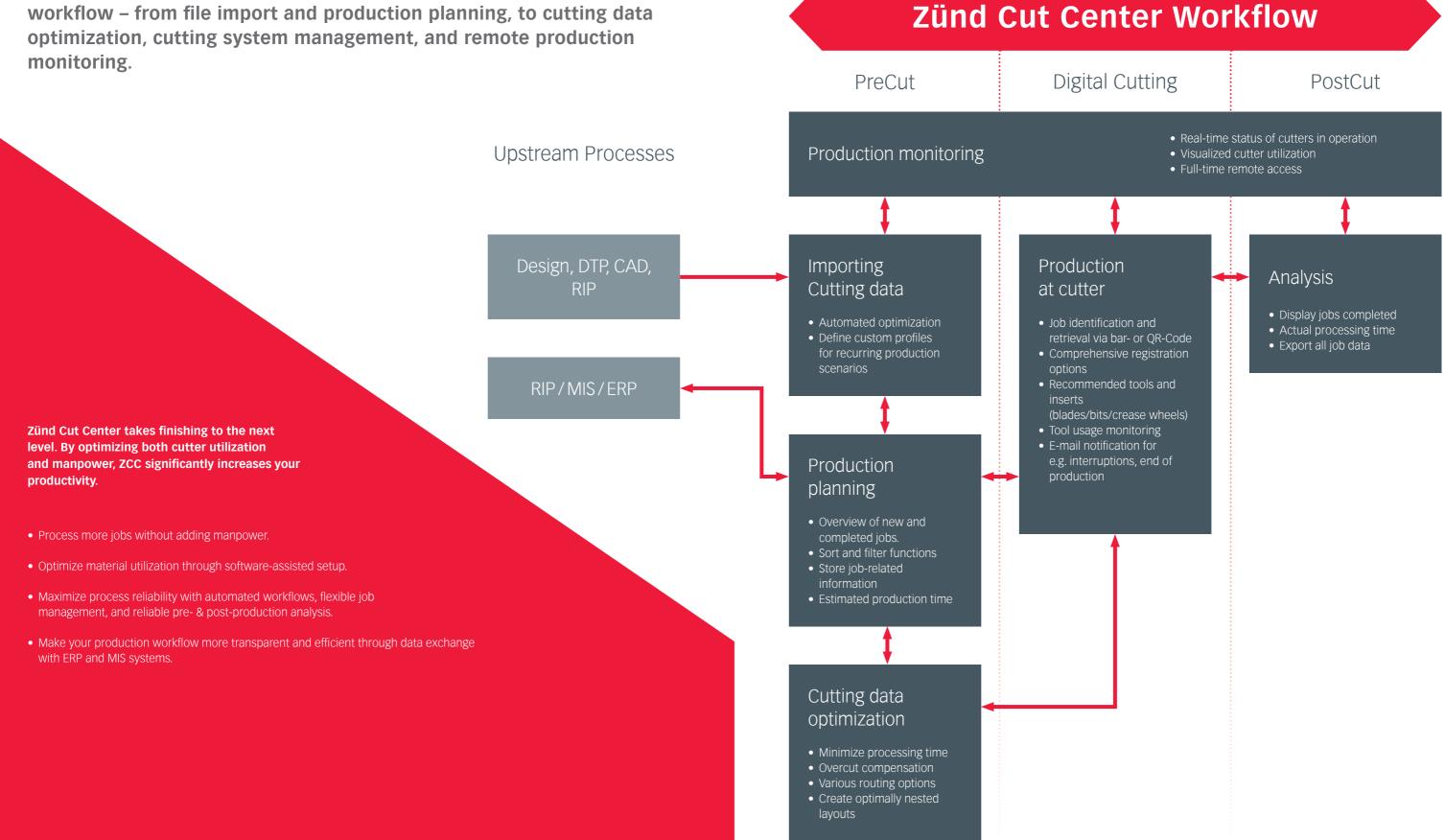
Your first choice in digital cutting.



Zünd Cut Center

Software designed to take you further

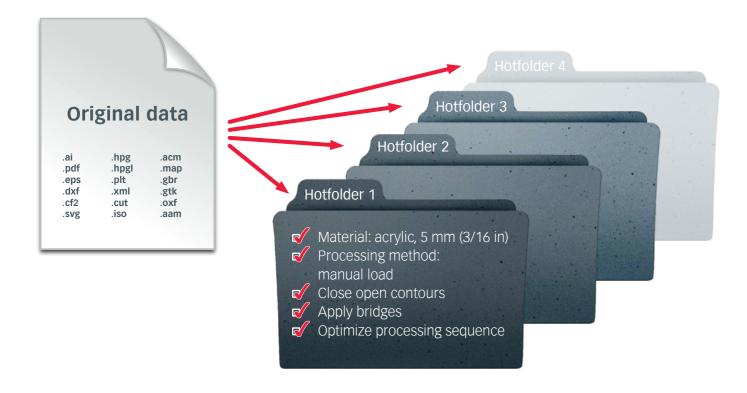
Zünd Cut Center software facilitates every aspect of the production workflow - from file import and production planning, to cutting data



Import cutting data » ☐ Hot Folder

Intelligent, automated file preparation

Let Hot Folders do cutter-related file preparation for you! Automatic generation of production-ready data accelerates your workflow and eliminates the need for manual steps in file preparation.



Automatic cutting data optimization

Reduce processing time even as you import data. ZCC optimizes cutting data for the best processing direction and sequence, keeping travel distances as short as possible. Among other things, the software also defines open contours, removes duplicate lines, and smoothes curves.

Customizable import settings

Insert bridges for every routing job, or make sure a certain material is always processed using the same methods and parameters. User-definable import profiles help you deal with recurring production scenarios without the need for manual entries.

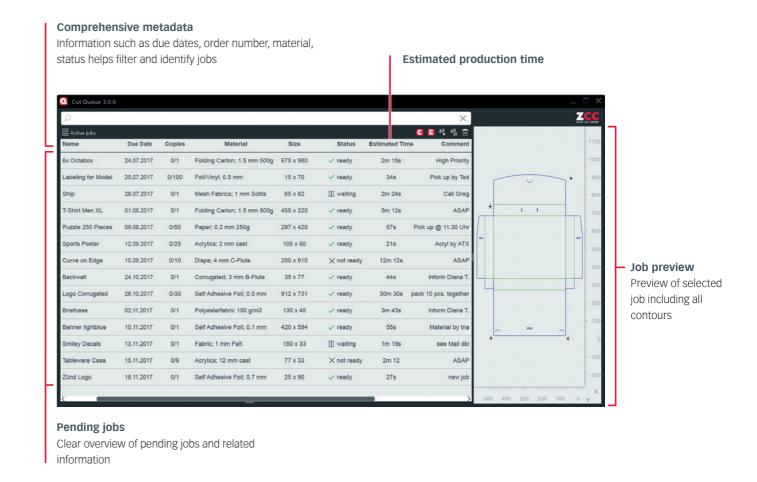
Benefits at a glance:

- Automatically optimized cut-paths and processing time
- Create user-definable import profiles
- User-definable processing methods

Production planning » • Cut Queue

Organization & overview of all your jobs

Cut Queue facilitates production planning and order management. It gives you the ability to easily manage orders, sort, filter or combine jobs for batch processing.



Benefits at a glance:

- Scheduling and management of pending jobs
- Sort and filter functions facilitate production planning
- All job-related information stored in one place
- Processing time estimates for reliable production planning
- Batch processing for efficient production workflow

Optimize cutting data » Cut Editor

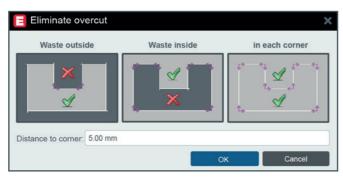
Powerful functions for perfect results

Cut Editor lets you change settings any time. Make the most of your cut files!



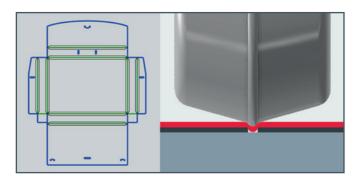
Estimate production time

Changes in cutting parameters can affect production time. Compare settings and estimate production times for accurate production planning & scheduling.



Eliminate overcut

Optimize cut quality with overcut elimation. The system determines the best cut path based on material thickness and blade used for processing.



Perfect creasing

The use of creasing counters optimizes the quality of creases. In Cut Editor, you can now create matching counters with just few mouse clicks.



Powerful nesting function

Designed for maximum yield from unprinted materials, Cut Editor offers intelligent nesting algorithms that create layouts with perfectly nested contours.

Benefits at a glance:

- Estimated production time calculations
- Numerous functions for cutting-data optimization
- Last-minute changes to objects and cut paths
- Cut Editor can be run on several PCs simultaneously

Cut Editor, a powerful editing tool with numerous routing functions:



Inlay function

To ensure inlays fit perfectly, the inlay function automatically creates a secondary cut file from the positive shape, which is then used to create the negative shape.



Lead in/lead out

For best results, start and end points are positioned outside the cut path.



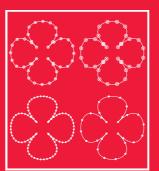
Multipass optimization

The system automatically determines the ideal number of passes for optimal speed and bit longevity.



Multi-function passes

Switch from clockwise to counter-clockwise passes, or from rough cuts to smoothing and polishing.



Dotted line patterns

The user defines the number and distance of drill holes to be cut on a path. The holes are evenly distributed and centered on the designated contour.



Automatic bridging

User-definable number of bridges and minimum spacing between them.

Production at cutter » Cut Center

Well-conceived control center

Cut Center serves as direct interface to the Zünd cutting system and facilitates your production workflow. The software suggests recommended tooling based on the job at hand.

Tool usage monitoring

E-mail notification

interruptions, etc.

interruptions during production.

The software tracks the processing distances of each

blade in use and compares these with the job data. If

before processing begins in order to prevent

The user specifies the processes that will trigger

a notification, e.g. for job completion, unexpected

necessary, the system will suggest a blade replacement

Intelligent materials database

Based on the cutter configuration and available tools, Cut Center suggests ideal tooling for the job at hand. All materials contained in the ever-growing database have been assigned recommended processing parameters.

Unique job identification

QR-codes applied to the substrate simplify identifying and retrieving the current job. Once the cutting data has been retrieved, processing begins automatically.

A perfect preview

For final review, simulate the job either onscreen or on the cutting system.





OCC – ultimate efficiency

Mounted above the cutting system, the Over Cutter Camera – OCC captures all register marks in a single shot.

Digital capture in seconds

The high-resolution optics system captures all register marks at once. This significantly speeds up the registration process.

For a perfect cut-to-print match, reliable registration is indispensable.

High-resolution optics combined with powerful algorithms: The modularity of Zünd cutting systems extends to the solutions available for digitally capturing registration marks. The highly precise ICC camera and registration system can be easily expanded with the remarkably fast Over Cutter Camera – OCC.

Automatically register rolled materials

After each material advance, ICC and OCC determine the exact position. This ensures maximum productivity and consistently high quality.

Precise material placement no longer matters

Board and sheeted materials can be placed randomly on the cutter. Intelligent optics automatically determine position and orientation.

Suitable for all materials

The ICC camera reliably captures register marks even with low-contrast or reflective materials.

ICC – maximum precision

The ICC camera mounted on the module carriage sequentially captures as many register marks as needed for precise cut-to-print registration.

Edge recognition

Unprinted materials, or printed substrates that need to be cut from the back with the print facing down, can be registered with edge recognition.

User-defined registration marks possible

Instead of traditional register marks, users can define picture or text elements printed along with graphics for the system to capture and interpret.

When jobs call for ultimate precision

The ICC camera captures the exact position of each register mark. Algorithms intelligently process the data and calculate material position, orientation, and possible distortions.

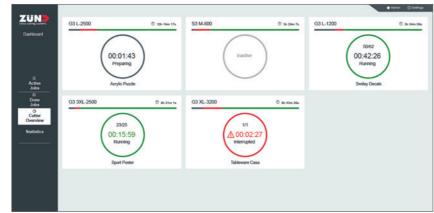


Production monitoring » Dashboard

Online 24/7: always know what's going on

The browser-based Dashboard gives management and production staff easy, full-time remote access to relevant performance data. It lets you always keep an eye on real-time order status and Zünd cutter utilization.





Keeping an eye on production

Real-time data on setup, processing and idle time.





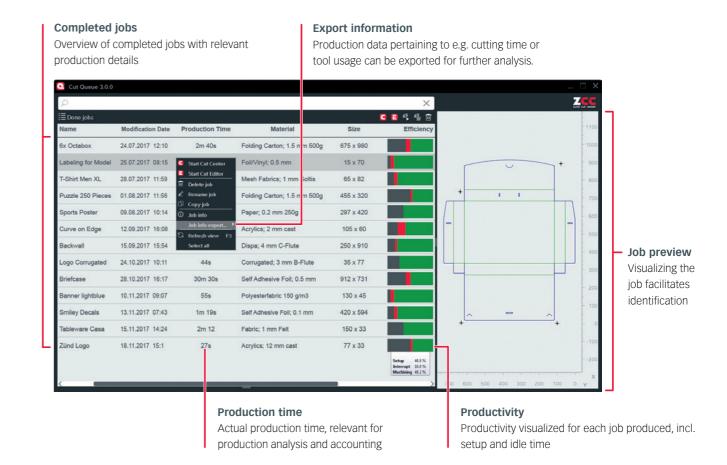
Statistics

Display and appraisal of production data for overall productivity studies.

Analysis » Cut Queue

Useful metrics, greater profitability

Increase productivity and profitablity by analyzing completed jobs. In-depth, easily reviewable production data highlights workflow efficiencies and potential areas for improvement.



Benefits at a glance:

- Review job queue via mobile device anytime, anywhere
- Quickly and easily add comments or additional job information
- Identify problem areas early, with in-depth production monitoring

Benefits at a glance:

- Fast, detailed analysis of production data
- In-depth data creates transparency for evaluating profitability
- Centralized storage of job and production data

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