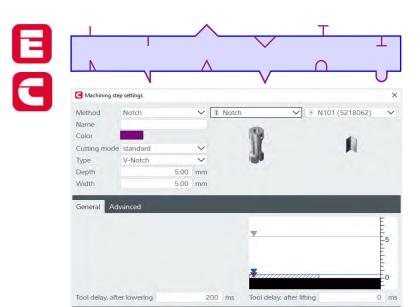
Zünd Cut Center 3.1 (06-2018) Essential new features



New "Notch" processing method

ZCC 3.1 already supports the forthcoming Notch module – NMM. The new "Notch" processing method facilitates internal and external notches and includes the six types I, V, T, L, R and U. Each of the different notch types can be assigned individual dimensions.

The notches are created automatically when importing from AAMA, ASTM, and DXF files. The Cut Editor also facilitates the manual creation, processing, and removal of notches.



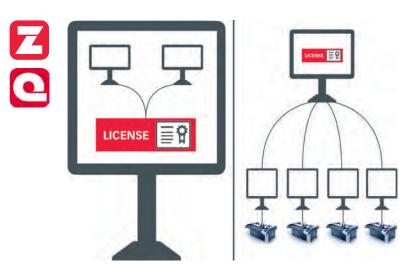
"Server only" license

The "Server only" license allows for moving the automatic data import via hot folder as well as the dashboard server functions to a separate computer. This relieves the cutter's base computer and thus increases its performance.

The "Server only" license includes all functions of the basic license with the "Cut Queue" option, with the following exceptions:

- Process jobs (Cut Editor)
- Produce jobs (Cut Center)
- Barcode and batch production

The "Server only" functions can be executed within a virtualized computer, whereby the software license must be installed on a physical computer.





Zünd Cut Center 3.0 (12-2017) Essential new features



Dashboard

The dashboard gives area managers and production staff easy and secure remote access to relevant production data around the clock. It allows you to always keep an eye on the precise status of each order and utilization of your Zünd cutter.

The dashboard is a browser-based application and can thus be run on devices with different operating systems.



Over Cutter Camera - OCC

The high-resolution camera above the working area detects all registration marks.

It enables rapid and fully automatic detection of the registration points.





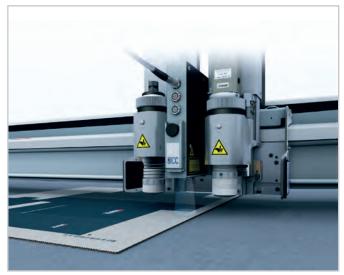


Intelligent, time-optimized registration with ICCSignificantly faster reading of registration points based

Significantly faster reading of registration points base on the following three configuration options:

- Apply distortion of the first copy
- Ignore irrelevant registration points
- Optimize the number of registration points for the required quality/productivity





New graphical operating interface

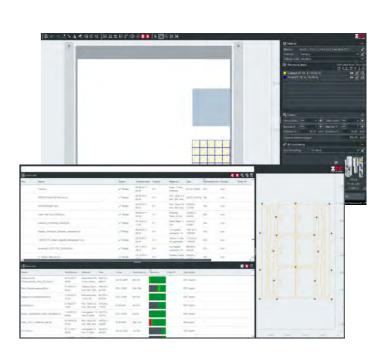
Optimized, user-friendly operating interface in modern design.

64-bit application

The conversion to a 64-bit application has made the ZCC even faster. This requires a Windows 64-bit operating system.

Software license

Changing from a hardware key to a software key has made working with the ZCC safer than ever. A USB port is no longer needed. Future license upgrades will be easier.





Zünd Cut Center 2.7 (12-2016) Essential new features



Paging with roll feed

In roll processing, material advances usually occur after everything on the table/in the cutting area has been completed. By selecting the paging function, the user can now make the system advance after each page. This facilitates off-loading cut pieces in jobs that are shorter than the maximum table length.





Automatic export of job information

In Cut Manager, the user can choose to automatically export job information, such as total processing time and cut length, as XML or CSV file. This makes it even easier to gather and analyze production data.



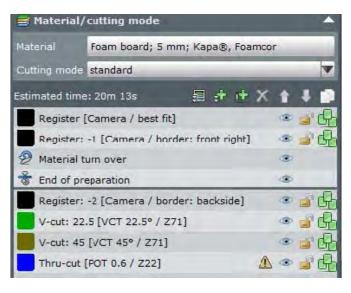
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Saving preparation steps

The preparation steps selected during setup are saved together with the cut file. If the job needs to be repeated in the future, there is no need to go through the preparation procedures again.

With the function "peform preparation only", cut files can be prepared for batch processing. Batch processing can then be performed without repeating the preparation steps for each job individually.





3.6kW routing module RM-L

The water-cooled 3.6 kW router module is designed for maximum performance.

The RM-L is equipped with a pneumatic collet. In conjunction with an 8-bit capacity automatic bit changer, the RM-L router module is a fully automated system capable of processing jobs that require different types of bits.

The RML-tool is completely integrated with Zünd Cut Center ZCC.





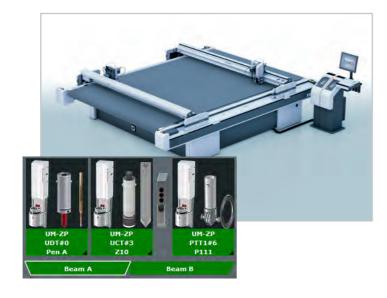


Zünd Cut Center 2.6 (6-2016) Essential new features



Dual beams for maximum productivity

Depending on the job, one cutter with two beams operating independently of each other can double the throughput. ZCC controls the workflow and optimally distributes the cutting/processing tasks between each beam, ensuring maximum productivity.



Manually loading multiple sheets

It is now possible to manually load and lay out multiple sheets/boards on the cutter for processing. Doing so extends the active processing time between loading and unloading, which frees up the operator to perform other tasks. In addition, multiple sheets cover more of the vacuum area, which optimizes material hold-down. All Zünd cutter series (S3, G3, D3) support this function.



Jobs utilizing both beams

The dual-beam cutting system can process rolled and sheeted/board materials, no matter whether the job consists of multiple smaller sheets/boards or full-size ones.



Single-beam operation

A dual-beam cutter can also be run with only one beam (beam A) in operation.

If, for instance, the router option is installed only on beam A, beam B can be deactivated.



Registration capabilities

As is the case with single-beam cutters, the Zünd ICC camera system in combination with Zünd Cut Center ensures perfect registration and compensation on dual-beam systems.





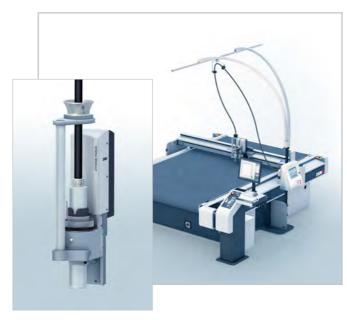
Zünd Cut Center 2.5 (10-2015) Essential new features



Now supporting Leibinger inkjet

The versatile Leibinger Jet 3 inkjet printer is ideally suited for labeling a wide variety of materials. Its many applications include labeling with text or barcodes or drawing/plotting lines. The Ink Jet Tool - IJT is now fully supported in Zünd Cut Center.





Batch processing: cut files retrievable via barcode

Users can now retrieve files easily with a barcode scanner and add them to a batch. Once batch processing is launched, simply scan in the jobs you wish to include.





SVG export

Cut data can now be exported from Cut Editor as SVG file for import in other systems. All objects under a method are combined into a group.

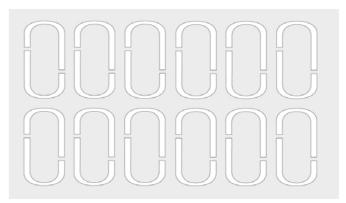




Automatic bridging during import

Bridges can now be inserted automatically while importing cut files. The number of bridges and distance between them are user definable. This feature is also available when importing files via hot folders.







Zünd Cut Center 2.4 (6-2015) Essential new features



Tool usage monitoring

Previously, it was often difficult to determine the wear on a blade or bit, which tended to create unnecessary waste. ZCC now tracks tool usage and lets the user know when a blade/bit has reached the end of its expected lifespan and needs to be changed.

The data used for tool monitoring is based on past experience and has to be set up individually.



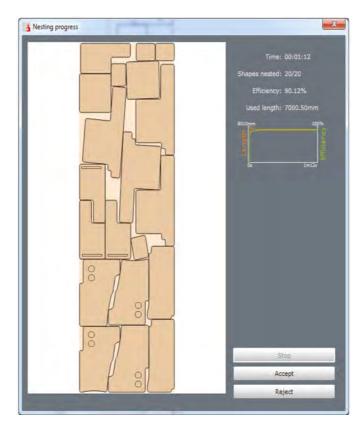


Nesting

A user-friendly nesting option integrated in Cut Editor automatically calculates the most efficient placement of individual parts or groups of parts on rolled and sheeted/ board materials. The automatic nesting function uses powerful algorithms that ensure optimal nesting of even the most complex patterns. This saves time, maximizes material yield, and keeps waste to a minimum.







Automatic Router Bit Changer - ARC

The Automatic Router Bit Changer is fully integrated with Zünd Cut Center - ZCC. The ARC offers the user a magazine that can hold a combination of up to 8 different router bits for processing. The system automatically selects the correct bit for the job and material at hand, guaranteeing optimal results. This eliminates the potential for operator errors that can easily occur in higher-volume routing applications.

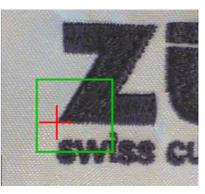




User-definable register marks

Before now only symmetrical shapes where permissible for use as register marks. Starting with Vers. 2.4, register marks in any shape can be captured and correctly interpreted by ZCC.





Border recognition for rolled materials

Following each advance, the system checks the border of the material. If it detects any movement, ZCC compensates for it and moves all objects accordingly.





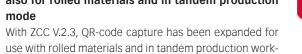


Zünd Cut Center 2.3 (9-2014) Essential new features

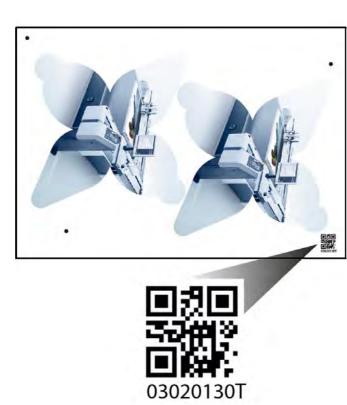


Automated production with QR-code capture now also for rolled materials and in tandem production mode

flows.

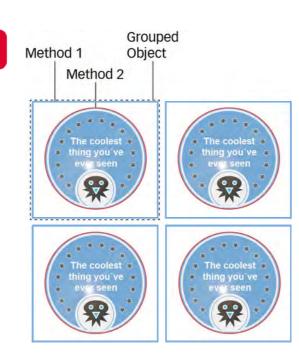






Object-by-object processing function

Before now processing methods could be specified only sequentially for the entire job. With the function *object-by-object processing*, one grouped object can now be completely finished before going on to the next one.



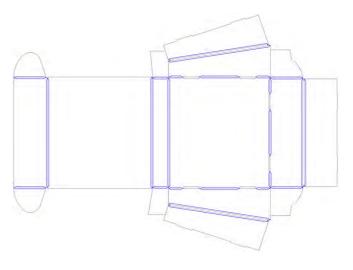
Creasing counters

The use of creasing counters significantly enhances the quality of creases. In Cut Editor, you can now create counters to match crease lines with just a few mouse clicks.

Tip:

Use creasing counters in a tandem production workflow. The tandem setup guarantees maximum throughput for producing top-quality folding boxes.

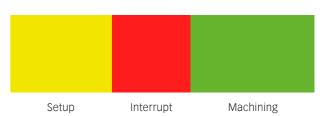




Cutter capacity and productivity indicator

The Cut Queue offers tools and methods for increasing your productivity. The software automatically calculates cutter capacity and, with a three-color status bar, permits the user to see at a glance in what ways producing a job could be made more efficient.





Integrated Tool Initialization - ITI

ZCC with Integrated Tool Initialization (for G3 cutters) enables the following new functions:

- Automatic blade/bit failure control
- Automatic recalibration at user-defined intervals to compensate for blade wear during processing.







Zünd Systemtechnik AG

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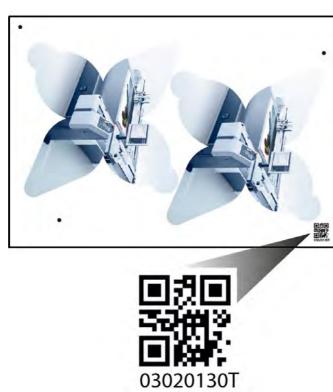
Zünd Cut Center 2.2 (4-2014) Essential new features



Automated production with QR codes

Job retrieval via QR code is the next step in fully automated processing/finishing of sheeted and board materials. It is now possible to process a sequence of different jobs without operator intervention: after the materials are loaded automatically with the Board Handling System - BHS or the sheet feeder, the ICC camera captures a QR code; the corresponding file is retrieved automatically, opened in Zünd Cut Center, and processing begins.





Zünd Webshop

From anywhwere within the **European Union**, you can now order blades, bits and other accessories directly through the Zünd Webshop. Click on the shopping cart symbol in Zünd Cut Center, Cut Manager or Cut Queue to access our online store.

Customer benefits:

- 24/7 order placement
- 48-hour delivery time within EU
- Free shipping for orders above €400
- Easy payment options with Visa, Mastercard or direct bank transfer
- Processing parameters for original Zünd accessories included in Zünd Cut Center.

Take full advantage of the capabilities of your Zünd

(Internet connection required - access via shopping cart symbol only within the European Union)





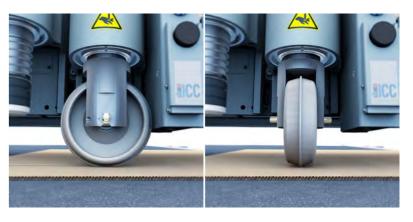




Creasing

In addition to the pressure mode, creasing depths for creasing tools CTT1/2/3 can be set differently for creasing with or against the flute/grain.





Tandem vacuum system

The following functions have been added to the tandem vacuum option:

- Work front or rear section of cutter ONLY: Zünd Cut Center now lets you define which half of the cutter is used as default cutting area. This permits limiting shortrun production to one vacuum area, which results in greater energy efficiency.
- Continue processing in cutter section where processing approval has been granted: the cutter no longer automatically switches back and forth between the two vacuum sections; instead, it continues processing on the side where approval was granted first.







Zünd Cut Center 2.1 (9-2013)

Essential new features



Job info export

Use job info export for generating and analyzing order statistics. Just export an XML file and import it into e.g. Microsoft Excel.

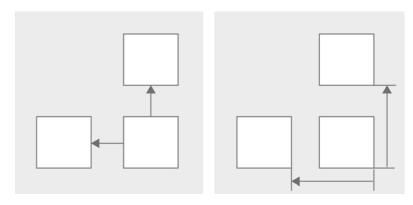




Multiple copies

Choose between «distance between shapes» and «distance from shape to shape».

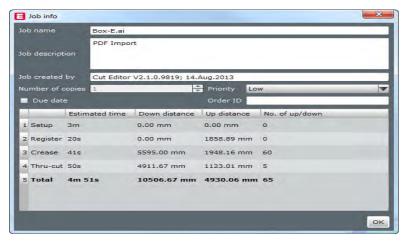




Cut-time estimation in Cut Editor

Processing time is an important factor in production planning. Already in Cut Editor, you can now see the estimated processing time per copy. This feature makes e.g. daily production planning very simple and efficient.

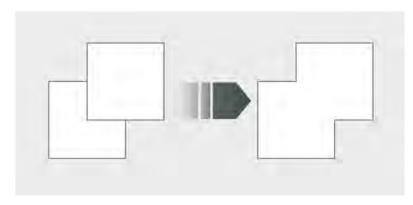




Unite operation

Several overlapping objects may be combined into one.



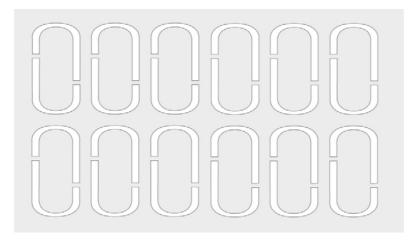


Automatic bridging

Insert bridges for all objects with a mouse click. The number of bridges and minimum distance between them can be specified individually.

Especially in routing applications, bridges prevent cut objects from moving. In addition, with all cut objects still attached, unloading becomes a simple, one-step process.





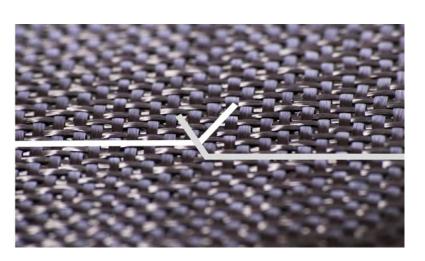
Feed connection cut

This function guarantees consistent cut quality, especially with textiles.

When the cut path extends beyond the length of the working area, advancing the material becomes necessary and with it, an interruption to the cutting process. The function «feed connection cut» ensures that no fibers are left uncut.





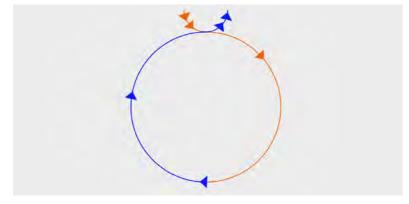


Lead-in/lead-out

Start and end points are positioned outside the cut path. Especially for routing applications, this function helps produce superior cutting results with invisible entry/exit points.



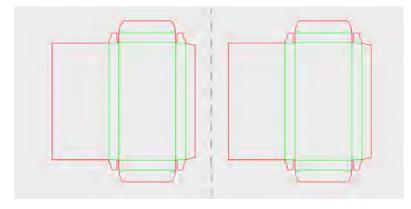




Cut-off function

Cut-offs or separation cuts can be applied after each copy/page or at the end of production. The length and position of the cuts are user definable. Use this function for rolled material (e.g. vinyl, films) or longer boards.





Multi-page loading function with BHS/ Sheetfeeder

The Board Handling System (BHS) and Zünd sheetfeeder allow for multiple loading for extended uninterrupted cutting time and covering more working area. The appropriate number of loads may be calculated automatically. This multiple-load function increases coverage of the vacuum area, which helps achieve superior vacuum hold-down.



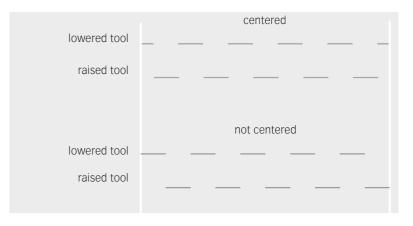


Line type patterns

The line types for individual methods may include patterns. These are controlled with additional settings and are a great option for e.g. creating optimal perforations in packaging designs.





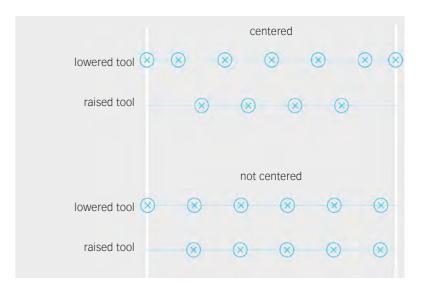


Line type pattern dotted with drill/punch

With the methods «drill» or «punch», select the dotted line pattern. This will produce a line of drilled or punched holes.

Distance and number of holes are user definable. The hole diameter is equivalent to the diameter of the tool being used.







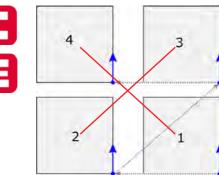
Zünd Cut Center 2.0 (3-2013) Essential new features

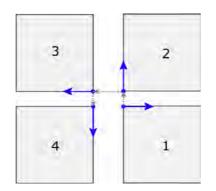


Cut path optimization

Take advantage of ZCC's automatic cut-order optimization: The software automatically makes adjustments to the cut paths to achieve the fastest-possible production time. Starting points and cut direction are automatically selected to minimize travel distances with the raised tool.



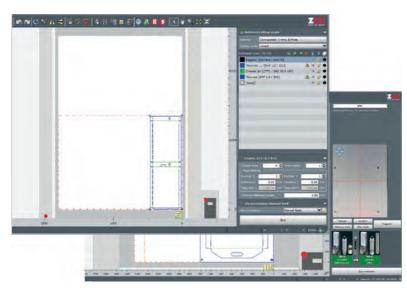




Simultaneous job preparation

With ZCC 2.0, you can prepare jobs while the cutter is producing. Several Cut Centers can be open at the same time for assigning methods, tools, or job processes.



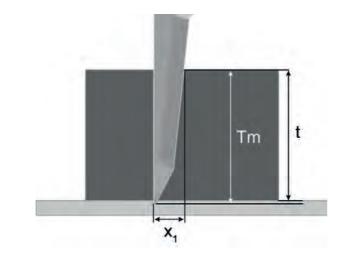


Overcut compensation

Optimize cut quality with the new compensation feature in ZCC 2.0. Cut paths are adjusted based on material thickness and blade in use.

t...material thickness TM...cutting depth x1...overcut





Production time calculation

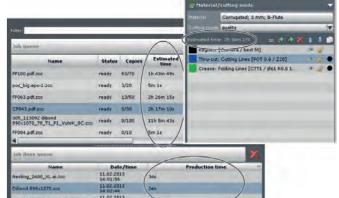
Use this feature to facilitate production planning. In the Cut Queue, each pending job shows an estimated production time. Besides pure processing, the estimate also includes the time required for job-specific setup and material advances.

While the job is in production, Cut Center continues to display the estimated time until completion. Any changes, for example as a result of longer setup times, are immediately taken into account.

Once the job is completed, the total production time is saved and displayed in the Cut Queue.

The ZCC XML-interface allows for e.g. integrating this production data into your production planning system.





Batch processing

Use the batch processing option to select multiple jobs in the Cut Queue for processing in the assigned order. For example, select a number of jobs in the evening, and have the cutter produce them overnight.





E-Mail notification

Set up the cutter, start the job, and let it run. If any operator intervention is required, you are notified by email.







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