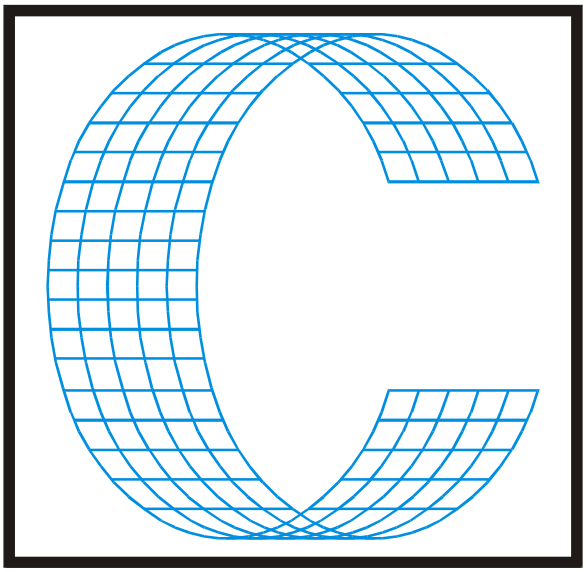
CimPACK Version 17.0



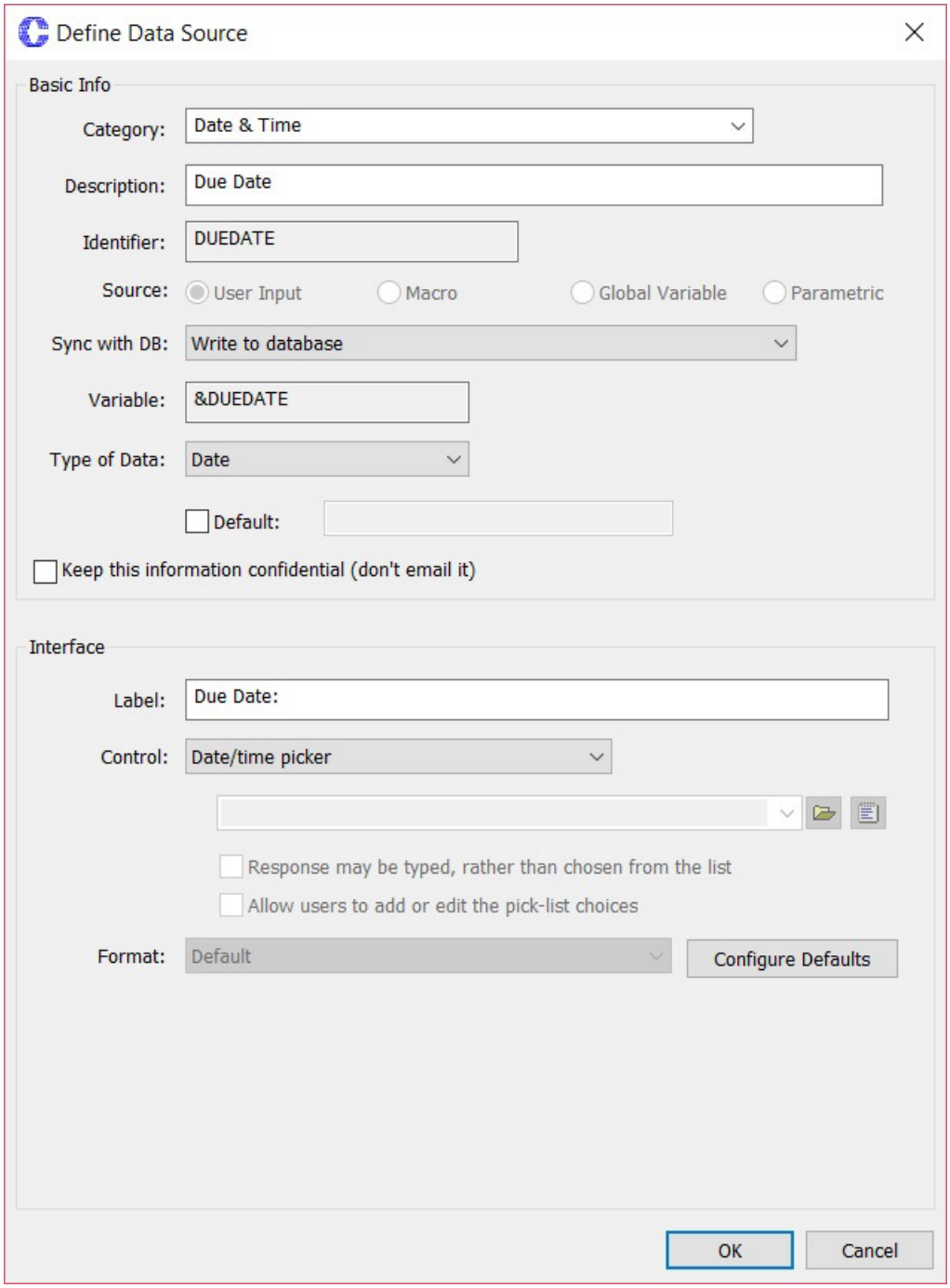
cimex®

Cimex Corporation
30 Front Street, Suite #2
Belchertown, MA 01007
USA
Phone (413) 323-1090
Fax (413) 323-1096
www.cimexcorp.com
E-Mail info@cimexcorp.com

CAD Portion of the Program

Database & Forms

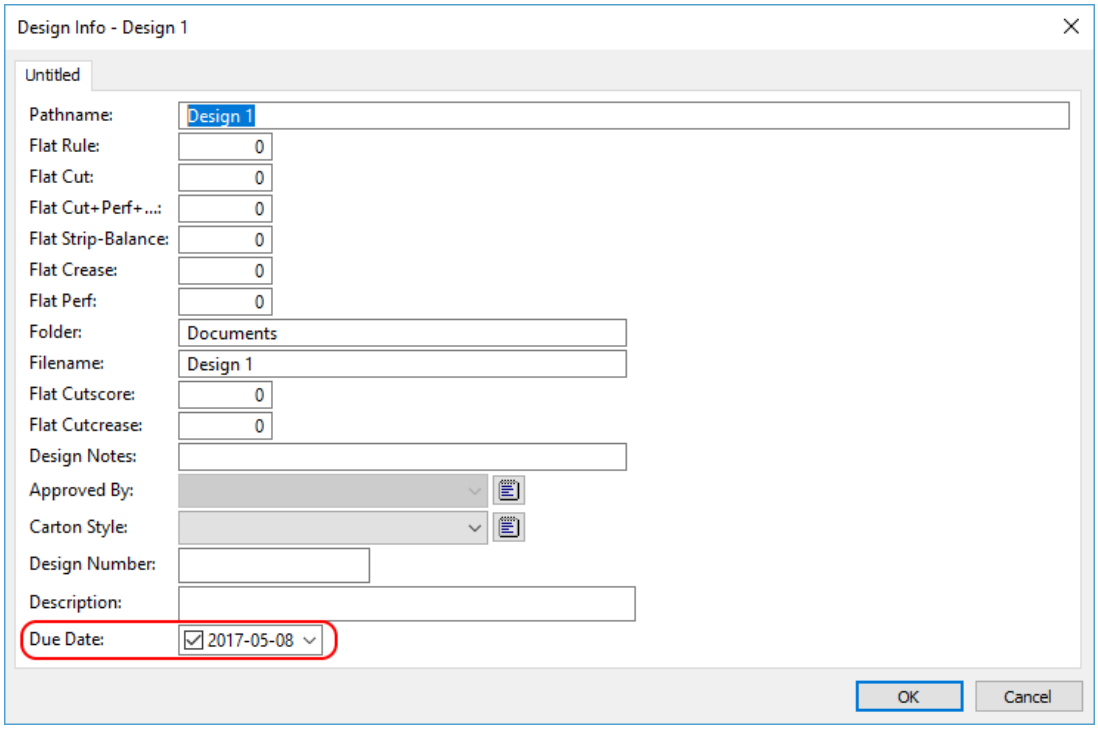
Control over data sources has been enhanced in multiple ways:



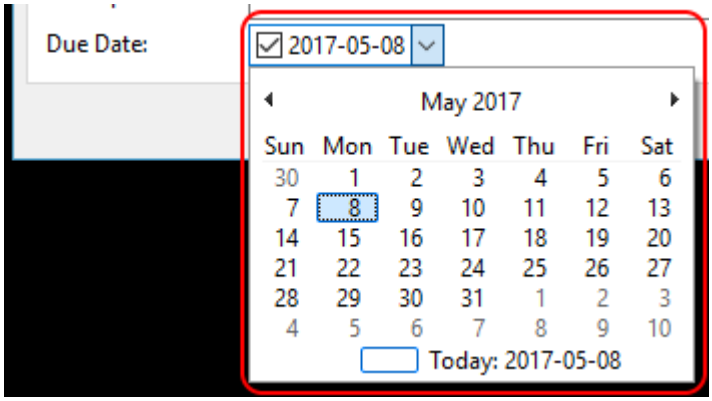
Database data sources can now be read-only, read-write, or write-only (the default, and the way they have always been in past releases). This can allow you to synchronize your data with external software which can now update fields in the Cimex database and have that information automatically reflected into your designs. It is up to your IT dept. to implement access and set such information in the Cimex database if

this functionality is desired at your workplace. We have merely opened the door to make it possible. However, what you do with this is entirely up to you.

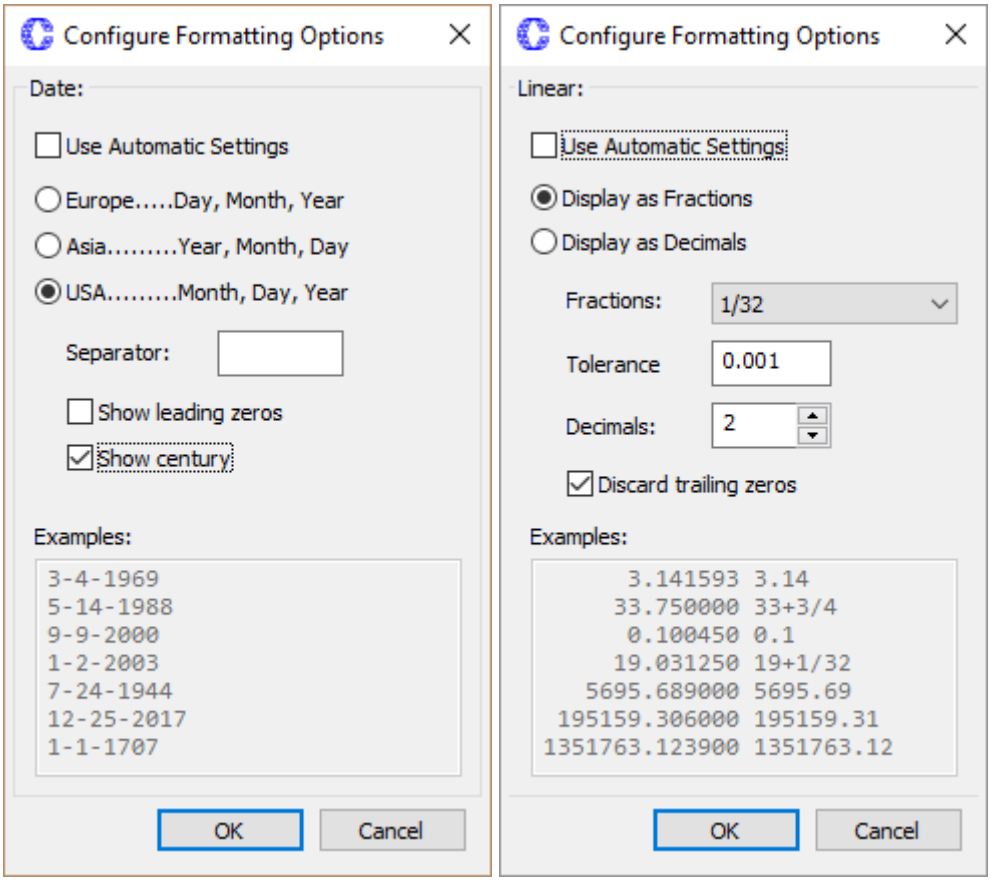
There is now support for a date, time, and timestamp picker interface & data integrity checking



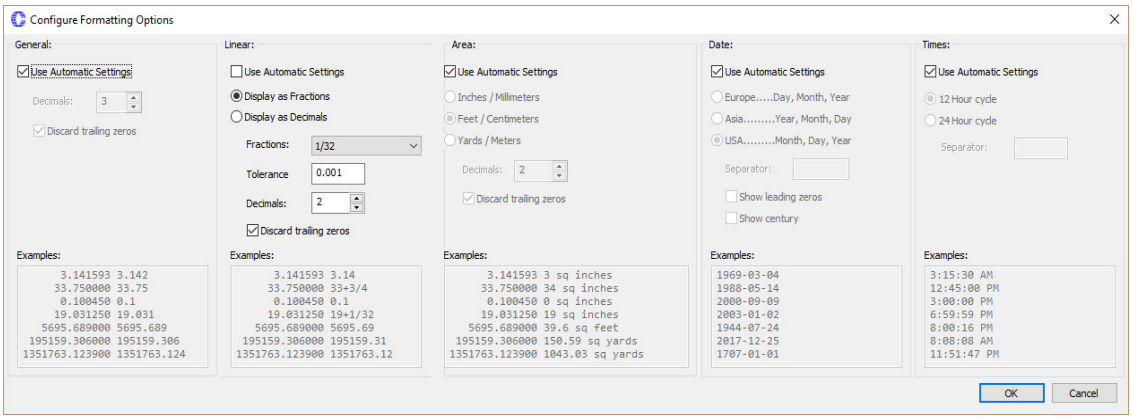
This can be expanded to input a date through a calendar date-picker interface (one of several interface options):



Enhanced formatting options for all data sources have been added. Each data format has sophisticated controls for you to specify how you wish to view and interact with your data, such as the new date formatting options:



Global defaults can be set under: Edit | Preferences | Data Formatting:



Enhanced data & time handling to use 4-digit dates (with century), so as to ensure integrity of information from and to the database

Database Setup & Edit Data Sources are better about telling you what the minimum version requirements are, and being clearer about what the implications are going to be if you choose to edit them in 17.0.

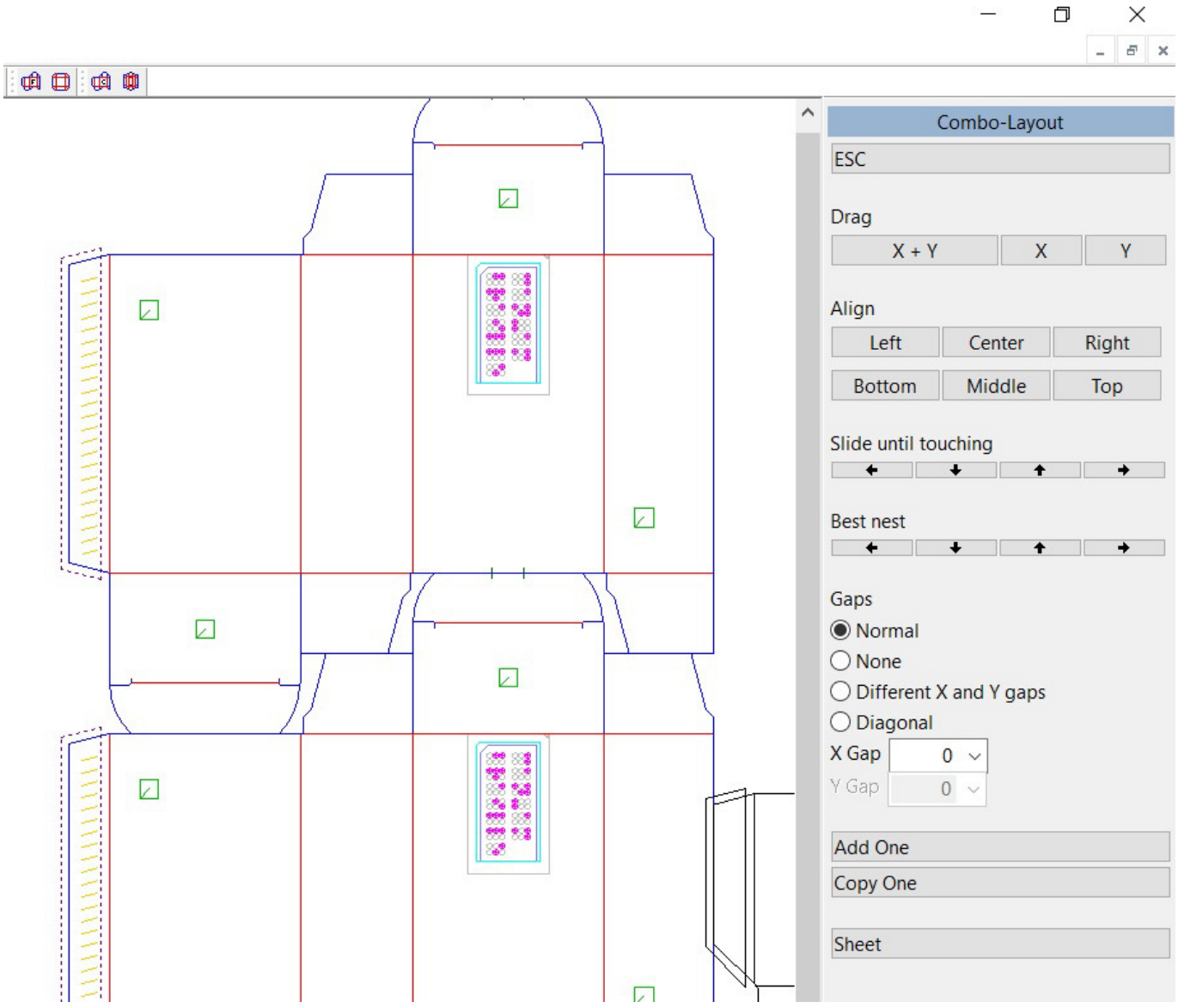
When 17 is initially installed, a backup of your database configuration is automatically created for you in order to protect against accidental upgrades or changes which you wish to revert from.

A custom data source to calculate the length of all lines of any custom line type that you add to CimPACK (irrespective of pointages) is automatically created for you for all such custom line types. You can add them to your database or forms as any other data source can be.

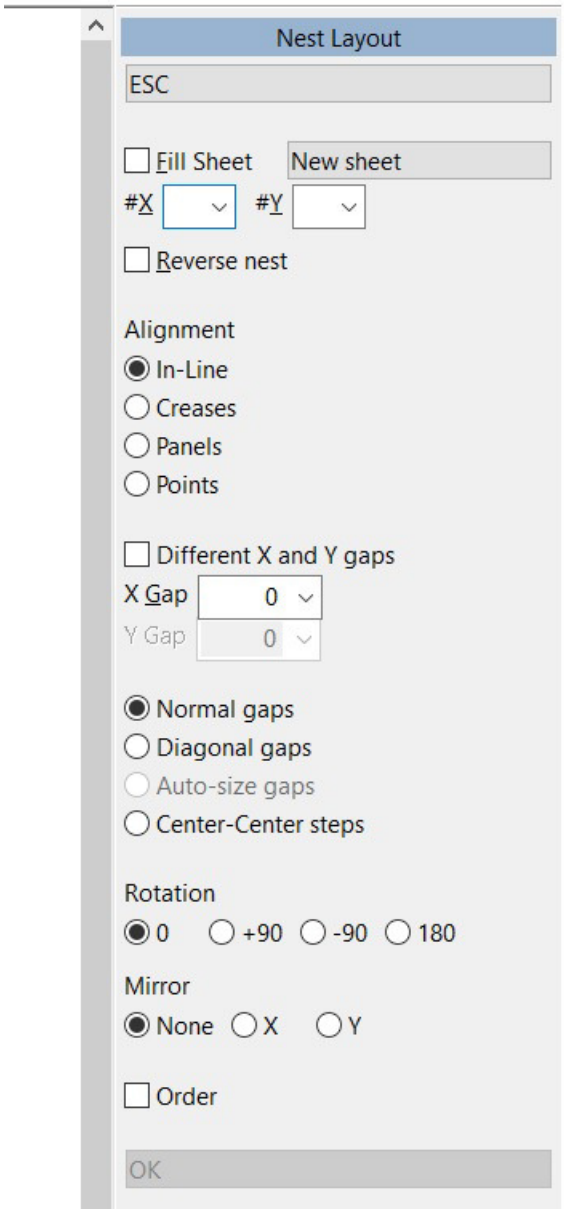
Data Sources generally run much faster now, so saving a design is quicker

Layouts

A new menu for Combo Layouts was created which speeds up the positioning process for additional designs.



The Nest Layout menu is now much more interactive. If the layout X or Y gaps are changed, the layout is regenerated with those gaps automatically. The same is also true if the boxes are rotated (+90 for example), then the layout is automatically regenerated. Similarly, if you change the quantities in X & Y and the layout is regenerated.



Dynamic Menus & Dialogs & Property Sheets

Enhanced layout options to allow for more sophisticated interfaces with arbitrarily nested blocks

Now supports PNG, JPG, GIF, etc., in addition to .BMP files

The macro language can now dynamically manipulate associated images at runtime

Buttons can have both a label and an image visible

Miscellaneous

The installer was improved to refer to existing locals, rather than existing installs (since you upgrade from a previous configuration, not from a previous single install in some cases) The installer also now gives better feedback about what's about to happen (new install, additional install, etc.)

Lots of consolidation of code happened under the hood to make various parts of the software all work and act the same, such as the following:

a. Standardized most Message Box interface
b. Dialogs remember where you put them
c. Dialogs remember their location relative to the application window
d. Dialogs size themselves relative to their parent window
e. Many more subtle behaviors are shared and therefore behave the same in all locations in the software

Enhanced support for PAR(215) – Beep: Visual / Silent / Standard so that this is respected in almost all cases (except during startup & shutdown when our core libraries cannot be relied upon we must rely upon the OS's facilities).

Many speed improvements were implemented (including faster startup after a reboot of the PC, and faster data crunching for database and forms).

A number of improvements made to Import and Export of DXF, PDF, DDES3, etc., for example when you import a DDES3 file it now sets up tags for perforations and cutcrease, which show up in the Info menu

A bunch of new macro functions & engine functions were added (see updated Macro Language Syntax help for more information)

When dragging lines, we now optionally show both the unsnapped and the snapped lines.

An Edit Group option was added, similar in concept to editing a subroutine.

The Stretch Menu now has an option to stretch a panel, so easier to edit a design.

The Subroutine Menu now has an option to rename a subroutine.

The Extend Menu now has an option to extend a selection with override, similar to the Shorten with override option.

Hotlighting subs shows them not as bold as before (just 2 pixels wide)

Hotlighting a line in a sub shows the rest of the sub dimmed

Emailing bug reports now zips the files

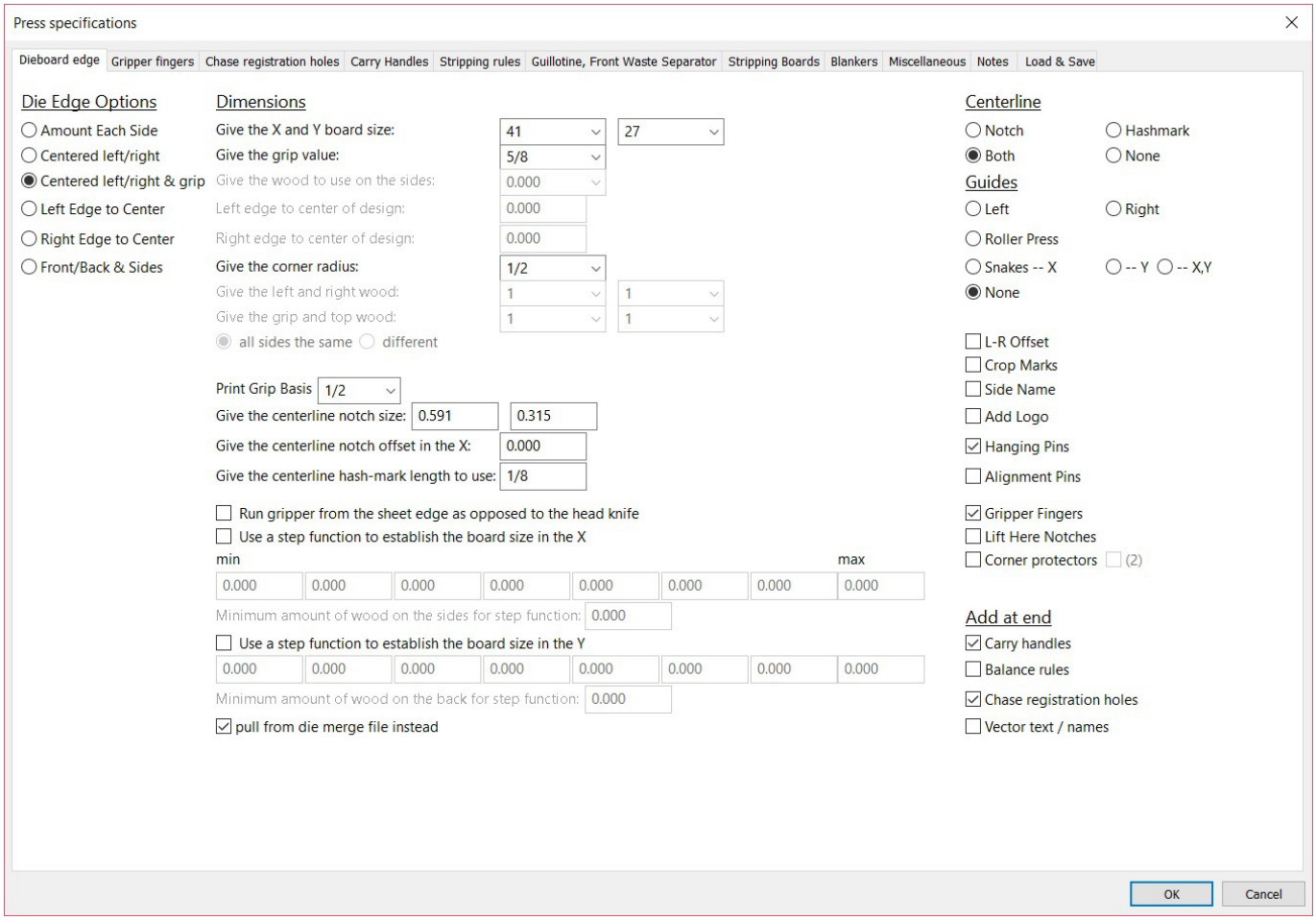
The menu for Insert Subroutine was improved, and now offers the rotation and mirror options etc.

Inserting Offset lines now allows default mode to be set (line first or offset first), and when using Insert horizontal/vertical it now allows “no snap” to be set as a default

CimPACK Portion of the Program

Customer Specs

There is now a totally new version of Customer Specifications available, combining many of the features of prior methods and versions into one brand new more powerful option. A multi-tabbed dialog allows all the different aspects of the machine to be configured. Here is the dieboard edge tab for example, offering a bunch of options available in the various dieboard options.

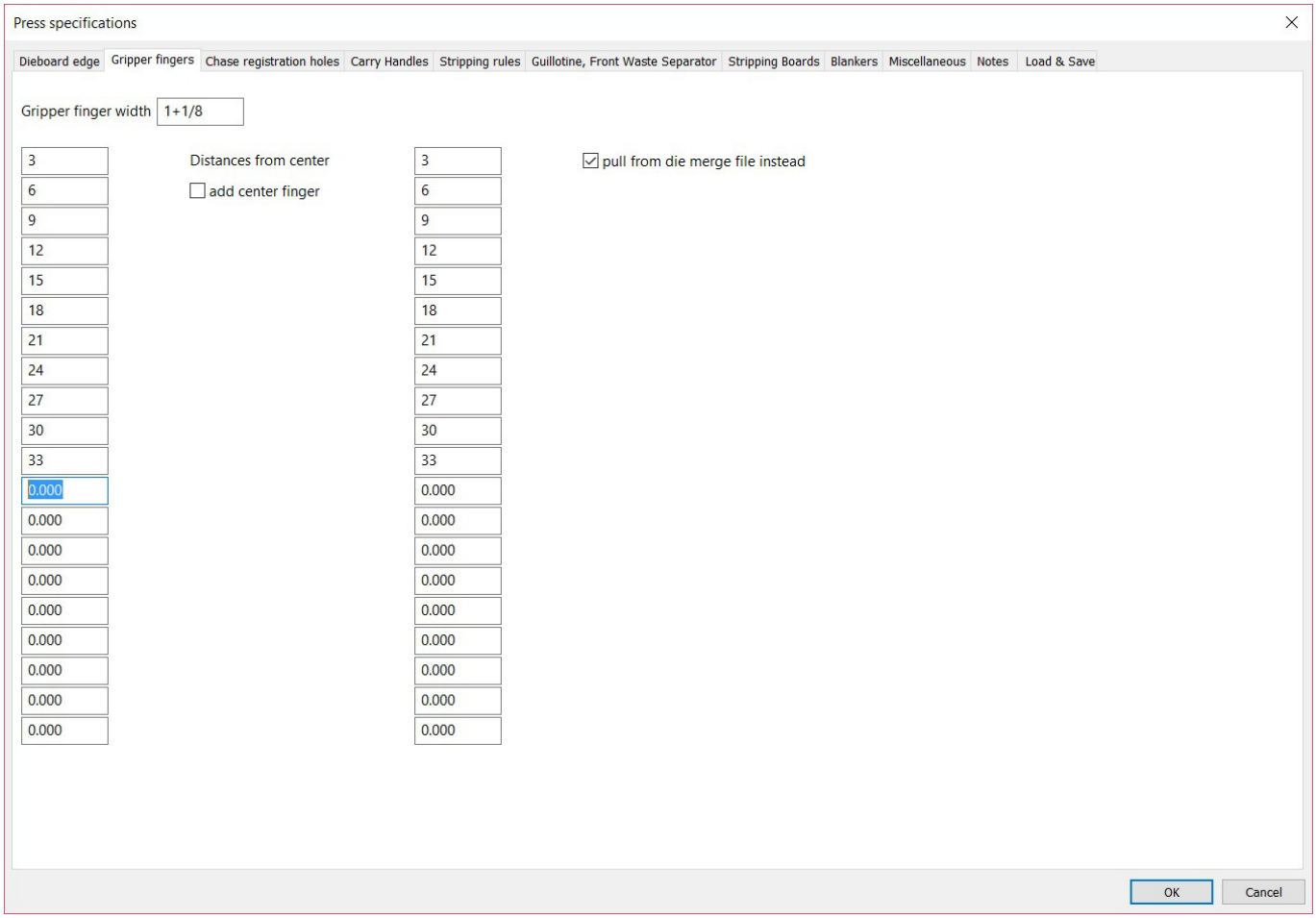


All the following tabs are available:

- Dieboard Edge
- Gripper Fingers
- Chase Registration Holes
- Carry Handles
- Stripping Rules
- Guillotine & Front Waste Separator
- Stripping Boards
- Blankers
- Miscellaneous
- Notes
- Load & Save

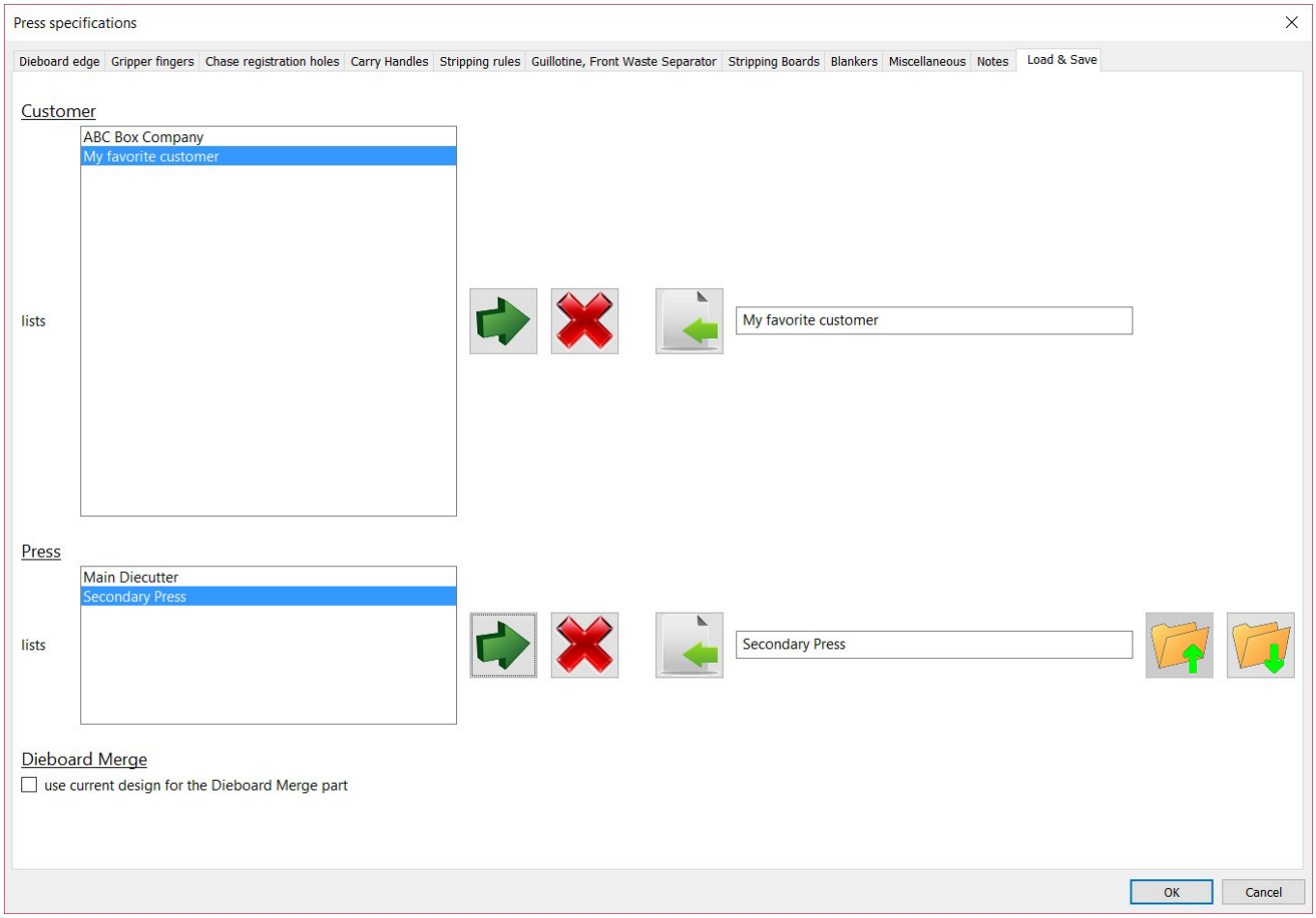
The Dieboard Merge option is very useful for some machines, but there is a limit to what you can do with it. The new method allows you to use part of a dieboard merge file for each of the areas that are relevant.

For example, here is the tab for the gripper finger locations. You can either specify all the locations of the fingers on either side of the centerline, or you can set the checkbox to pull the gripper finger lines from the dieboard merge file. The same applies for the carry handles, and for the dieboard edge, and so on.



The chasehole pattern can be part of the merge file, or similarly to the gripper fingers tab, you can elect to have the chasehole locations pulled from the merge file, or define them in the dialog here, up to 120 hole centers can be specified.

The Load and Save tab is where you can save out different customers and different machines, and then load them etc. You would set the customer to the appropriate one, set the name of the press to the appropriate one, then either pick the load or the save icon, so either pulling the information from the folder, or saving it back to it. To create a similar version of a machine for a different customer, load one that is close, then change what is different, then save to a different press for a different customer. Here is the load and save tab.



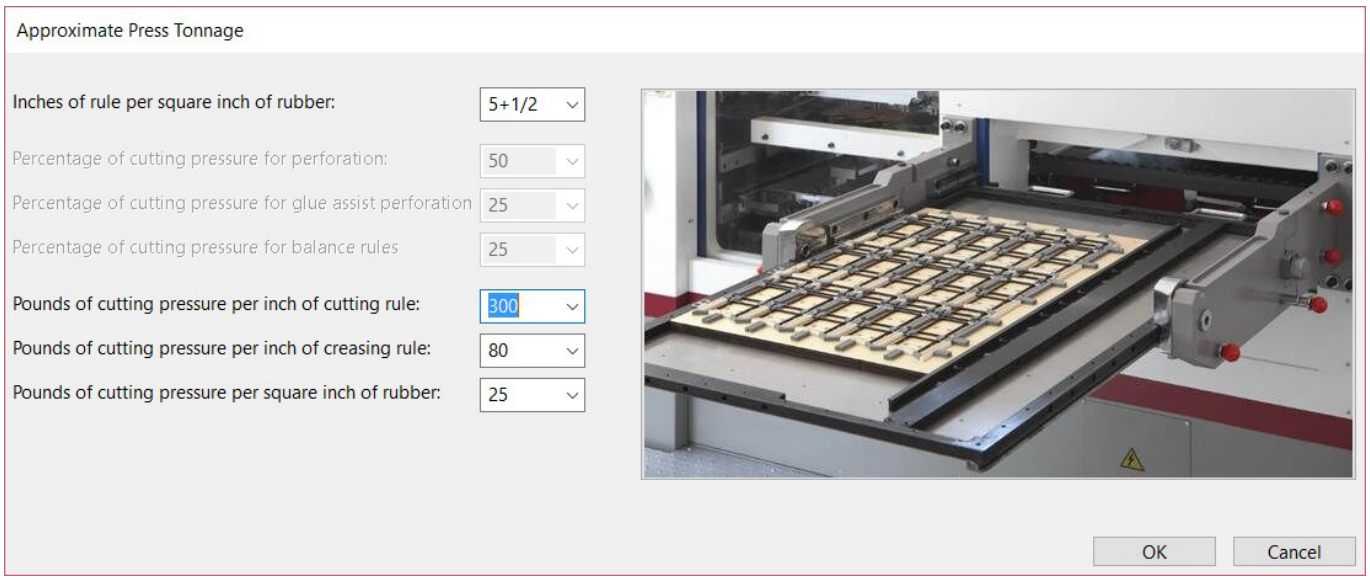
There are also capabilities that were never available, such as a notes tab for example, where you can add a bunch of notes or things to remember to do etc. for jobs that are going to be run on this machine.

Designer Module

The Spot Sheets menu has a new option which cuts out the spot sheet like a sample, but also adds a hanger file to the left side so can be hung up. Rather than the grip being a straight line, the die grip is stretched down to the specified amount. Spot Sheets configurations were also expanded from the current 6 configurations to a new total of 12.

An additional corrugated onepiece standard was added.

The Tonnage calculation has two new pressure percentage fields. You can set a percentage for glue assist perforation as opposed to regular perf. You can also set a pressure for balance rules, on the principle that as they don't hit the stock, they exert a lot less pressure.



Samples was changed to automatically convert any nick lines that are found to be sample nicks, then you are placed in the nick menu to make any further changes as needed. The nicks use their configured widths if there, however are adjusted for an overcut. You can now also change the nick width of selected lines in the menu to make adjustments as needed.

The TE Zipper rules option was updated to include the latest catalog of 2 and 3 point designs from Zimmer / National.

The different wave rule profiles available from Zimmer / National are now also supported.

Rotary

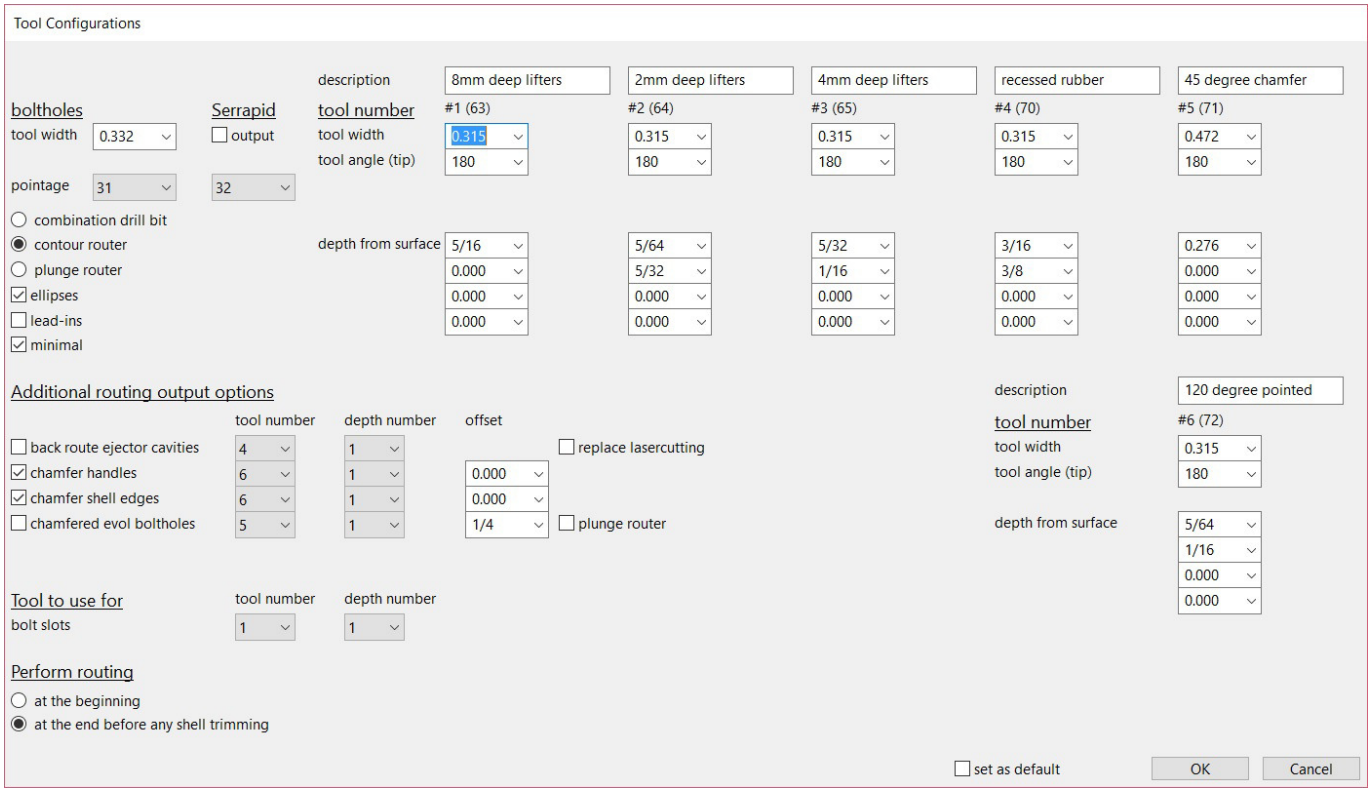
The Rotary LeGards option now has a "count all gards" option which now separately totals the Le Gards, Gards, and Euro Gards. They are now also differentiated when added in the first place. Changes were made to the forms macro for LeGards to use the new counting option, and new forms macros were added for the Gards and Euro Gards also.

The Rotary Zero-line now can also add visual notches on each side at the zero-line positon, and at the center of the die-cut design lead and trail. Also, when adding the text / etched line, they can now either go to the right of the selected bolt, or to the left.

The Rotary Boltholes Configuration Dialog now also allows the default rule height to be set, so .970 can be changed to .990 for most cylinders here.

Changes were made to the Posilock cylinders, so that one shell configurations can now be done, and as with Serrapids you get asked if the single shell is to run on the lead or on the trail.

The QuickMill Routing Dialog has a new configuration area for tapered Mitsubishi Evol style boltholes. For the cylinders like that, you can now elect to have the boltholes chamfered with a 45 degree tool instead of the normal round tool, so creates a chamfered countersink instead. You can either specify an offset from the edge of the countersink for the tool, or to have it sent out as a single plunge. The default is to use these tapered styles for the Evol and Isowa versions only, but can be toggled either way anyway. Also, a 5th and a 6th routing linetype were added to CimPACK, along with all the Quickmill controls for them.



The Rotary Shells Sketched Seam option now supports a 1x3 shell pattern.

The Rotary Reverse Score now allows the scaling ratio to be either the middle of the score profile, or the rule height minus penetration level. The height of the score profile is now changeable, and all these changes are also configurable.

The Rotary Shells Menu now has an option to try and fix messed up shell structure. Rather than looking at what lines are in what shell section, it looks at the sizes for each shell that you entered when you added the shells. Those sizes are used to create text for the center of each shell. If you have manually stretched the shells so the sizes entered originally are no longer correct, you do get the chance to move the text numbers for each shell to make sure that each one is inside each shell. The shells are then re-created from all lines that are the appropriate linetypes. The same option is now also used for the Sketched Seam option, so now all shell patterns even up to 6x2 are supported as opposed to just the simpler patterns. Each shell has to be a closed shape still, but this gets around all the accidentally deleted copies of each seam etc.

The Rotary Create Wood Collars option was changed to support the routing parameter 119.

When listing out the advanced ruletypes in a design, the current filename and date are also now added.

The Rotary Marks and Designations menu now has a version of the C/L and L/E marks, but without the filename.

The Rotary Bolthole option for converting holes to plastic bolt inserts was changed to prompt for a selection, so just some of the holes can be converted rather than all of them.

Parameters were added to preset the lead and trail movements of the Hamada Stripping Pins.

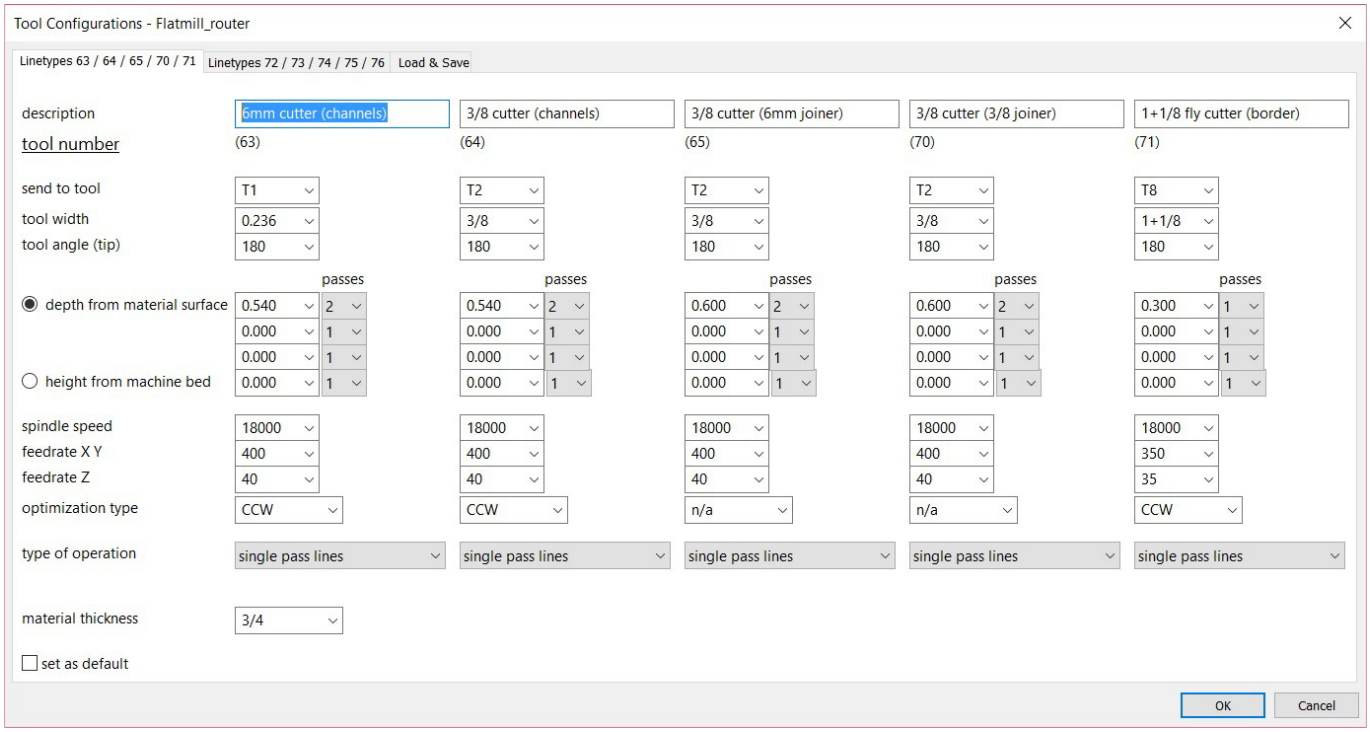
A parameter was added to control the 3 point segments added to rotary outputs around the seams, and you can now have it leave lines alone that hit seams, but are basically horizontal lines.

Automatic laser routing was added to an additional bolt slot style, option number 9.

Additional rotary cylinders were added as follows –

Apstar HG2 924
Emba 245 (non Serrapid)
G”pfert 66 Serrapid SR3 off center, reverse of the normal pattern
Latitude 38/42 Serrapid SR4
Mitsubishi Evol-115
Martin DRO 1632 SR4 off center
Posilock 8.20 off bolt, but 2-inch step not 50mm
Posilock 8.20 on a bolt, but with the 100mm bolt step left to right
Posilock 924 on center
Posilock 1636 off center
Ward Serrapid SR4 50 on center
Ward Serrapid SR4 66 on center bolts, but between bolt mushrooms

An initial version of an expanded flat version of Quickmill was added, called Flatmill. It supports 10 tools instead of 5, and has various options for a flat router. Additional router linetypes were added to support the extra tools. New router drivers can now be written that take advantage of this capability.



The Pace Mitsubishi Evol Lifters file was updated to contain 4 new lifters from Pace.

Changes were made to the way all Serrapid cylinders are added, so as to better support on and off center score positioning options.

Stripping Boards/ Blankers

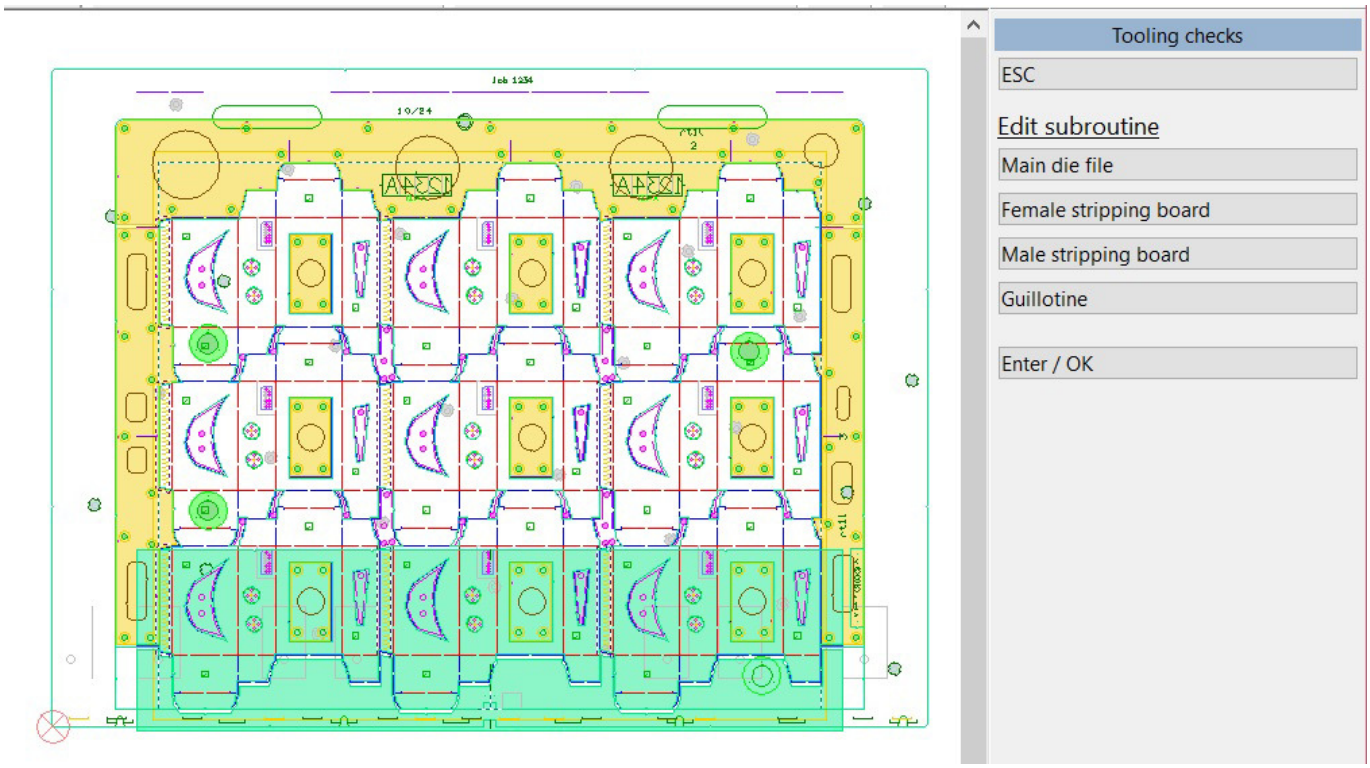
The claw / rule usage in Male Stripping Boards now also checks for and totals the five standard wave rules used by CimPACK.

A parameter was added to allow the 15x8 centerline notches in stripping boards to also get screw holes added instead of the secondary notch hole.

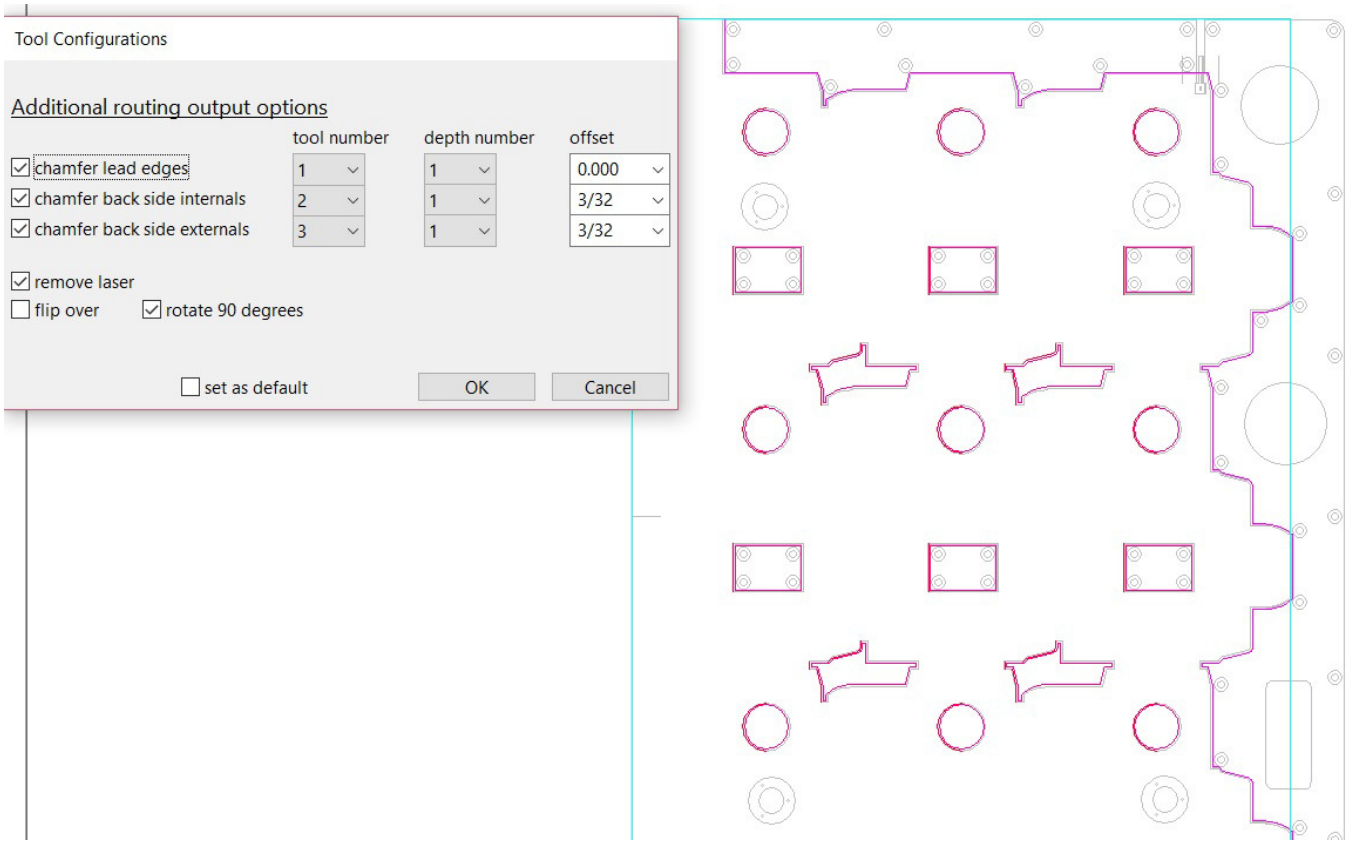
Male and Female stripping boards no longer require the striprules to be in section STRIPRULE, as long as they are line-typed correctly that is now sufficient.

An option was added in the Male Stripping Boards Options Menu to add in reference lines 2 inches out from any wooden blocks, so clearances can be maintained for foam when adding vacuum holes.

A Stripping Tooling Check option was added to the dieboard options menu. It creates an overlay file including the die, male and female stripping boards, and the guillotine all on top of each other for checking purposes. A menu comes up allowing each of the tools to be edited, then you are returned to the checking overlay when you close the edited subroutine.



An option to do the partial routing on a female stripping board was added to the flat routing section in the rotary routing menu, for the lead edge chamfer and the back-side chamfer.



The old Super-Strip profile for stripping boards was updated to the newer Quick-Strip one.

Ejection Rubber

An additional control was added to how the ends of creases are treated in ejection rubber. When changing the end treatment, you can now also add an extension to the bleed, so moves the end treatment further away from any matrix / phenolic counter.

An option was added in Ejection Rubber under Configure for Accuracy issues. For when the edge of windows and panels is done, you can elect to use a "looser" tolerance which sometimes helps with less than stellar files. You can also elect to change all the creases / cuts to be ovals so changed to bubble lines so can sometimes get around larger gaps, you can have the creases enlarged then returned to normal when done with the panel / window giving you trouble.

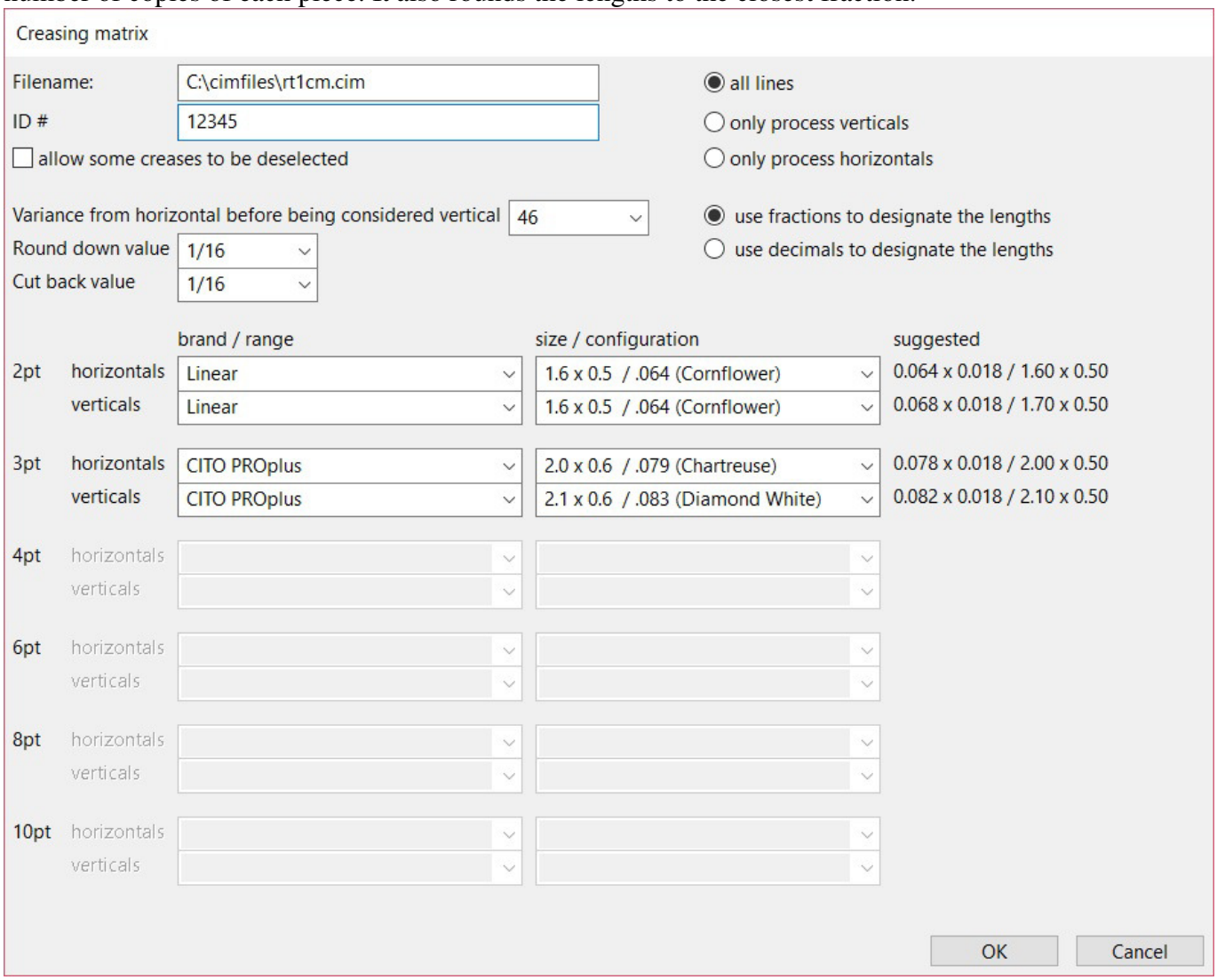
The Rubber Outputs Menu now has an output for the Lasercomb ProDigi 0813 using a modified DIN file.

The Outbreak option in Ejection Rubber now has a "Visual Midpoint" option, combining the ease of use of the visual option, but snapping to the midpoint of the closest line, so the pieces are the same length.

Two additional shapes were added to Ejection Rubber. The Delete Rubber section now has an option to delete a selection, and the Copy Rubber section now has a move selection option.

Strip Matrix

A completely new strip matrix program was added, and you can now choose between the original simple option, or this new advanced listing version. This allows you to specify the different type of matrix horizontally / vertically for each pointage found, and lists out the lengths of every piece, including the number of copies of each piece. It also rounds the lengths to the closest fraction.



A listing of each of the pieces needed is then created.

rt1 - 12345 - 0.018 SBS
2pt
#2 3 @ 1+9/16 Horizontal Linear (1.6 x 0.5 / .064 (Cornflower))
#3 2 @ 2+1/8 Horizontal Linear (1.6 x 0.5 / .064 (Cornflower))
#4 1 @ 1+1/2 Horizontal Linear (1.6 x 0.5 / .064 (Cornflower))
#5 2 @ 2+13/16 Horizontal Linear (1.6 x 0.5 / .064 (Cornflower))

3pt
#1 4 @ 4+13/16 Vertical CITO PROplus (2.1 x 0.6 / .083 (Diamond White))

Diemaker Module

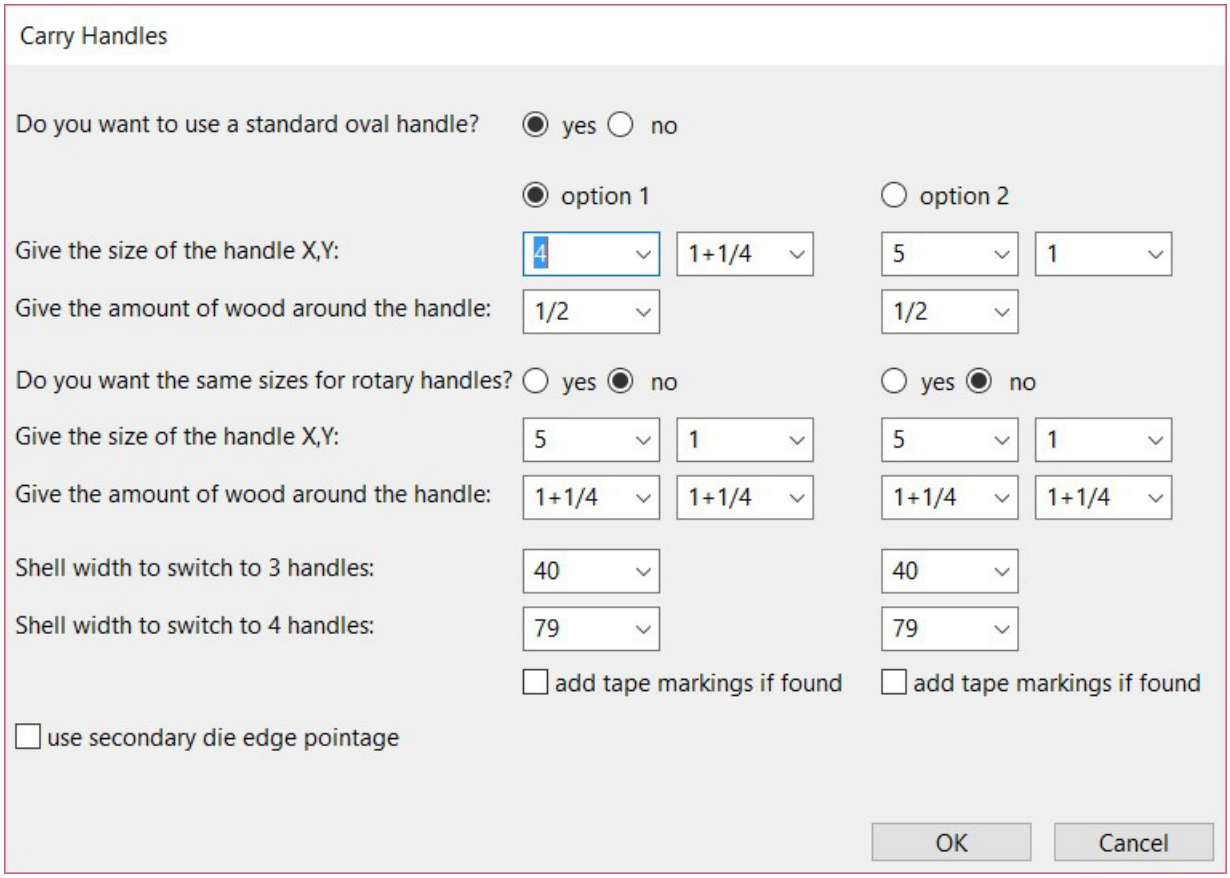
Striprules now has a "plus opposite" checkbox when adding striprules to the edge or to a length, the idea being that when the outside edge striprules are added, this can automatically add the striprule on the other side of the design at the same Y value, so lined up.

Limited specs were added for an additional diecutter brand and machine in Set Diecutter, for the SBL 1050.

Initial support was added for the Brausse Eterna SA1620S and the Brausse Eterna SA2100S.

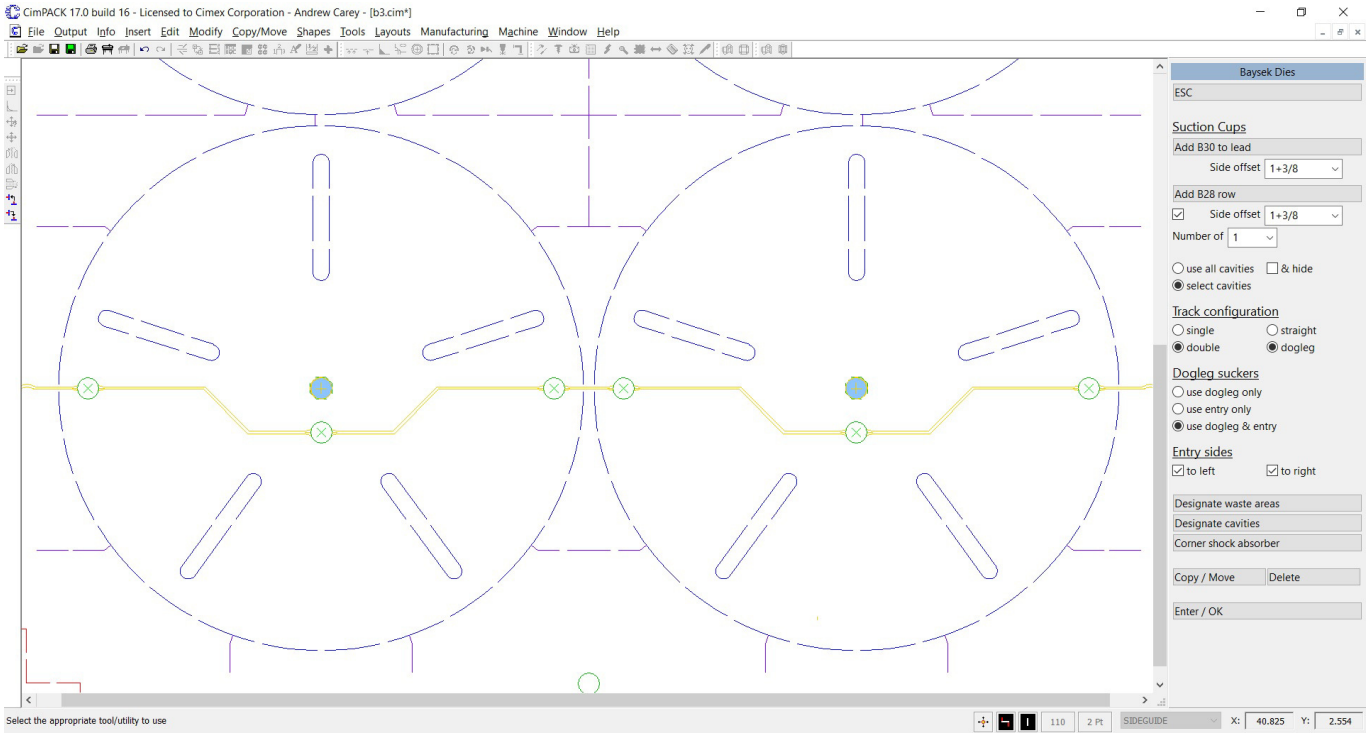
Improvements were made to the crease shortening program used in rule segments, and now the new matrix option also.

When adding carry handles, there are now two independent configurations for handle sizes and offsets etc. You can easily switch between one and the other on the fly. Whether to use the tape marking file around the handles is also configurable for each of the two settings.



The Baysek software was improved to allow a dogleg as well as straight paths. The suckers can then be placed on the entry lines of the dogleg, the base of the dogleg, or both.

An option for the corner shock absorber was also added.



The Fix Layout option now has an entry to change lines to striprule hooks, as well as striprules.

When adding striprules to a length on the edges, the length is now defaulted to the one used previously.

An option was added to the bridge utilities menu to get a file tally, basically a list of how many small radii versus large etc., and straight lines, for info / estimating purposes.

An option was added in the striprules end menu to reset the edge variables, that way if the size of the design changed, or the origin, the edge variables can be re-calculated. Changing the edge offset achieves the same result.

There is now a forms macro to count the number of nick lines in a design, and while in the nicks menu the total number of nicks is also shown.

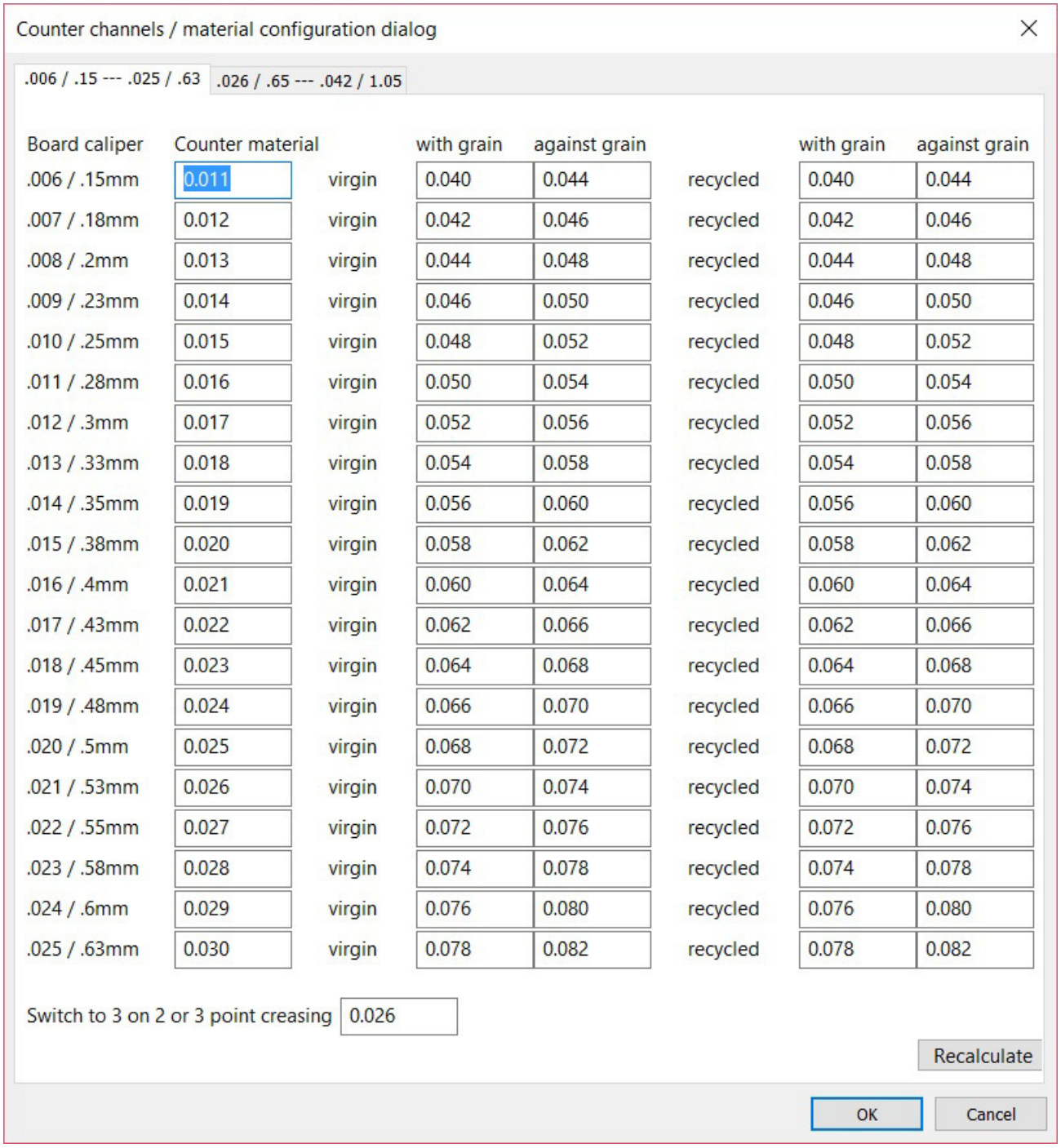
The regular bridge styles 0-2 now each have independent parameters for the spacing for 4+ bridges rather than sharing a single one.

An additional counter hole style was added, a .284 square version so slightly tighter than the normal .285 hole.

Steel & Phenolic Counters

An option was added to the Steel Counters Configuration dialog to discard subroutines. If this is checked, any design is treated as a oneup and the subroutines are exploded. This would then run the steel plate routine at the end of the channel creation also. Everything would be saved in the single file.

The counter channel configuration allowed the phenolic counter channel widths to be defaulted from .006 to .040 in .002 increments, now you can configure from .006 to .042 in .001 increments so board calipers like .015 can also be configured.

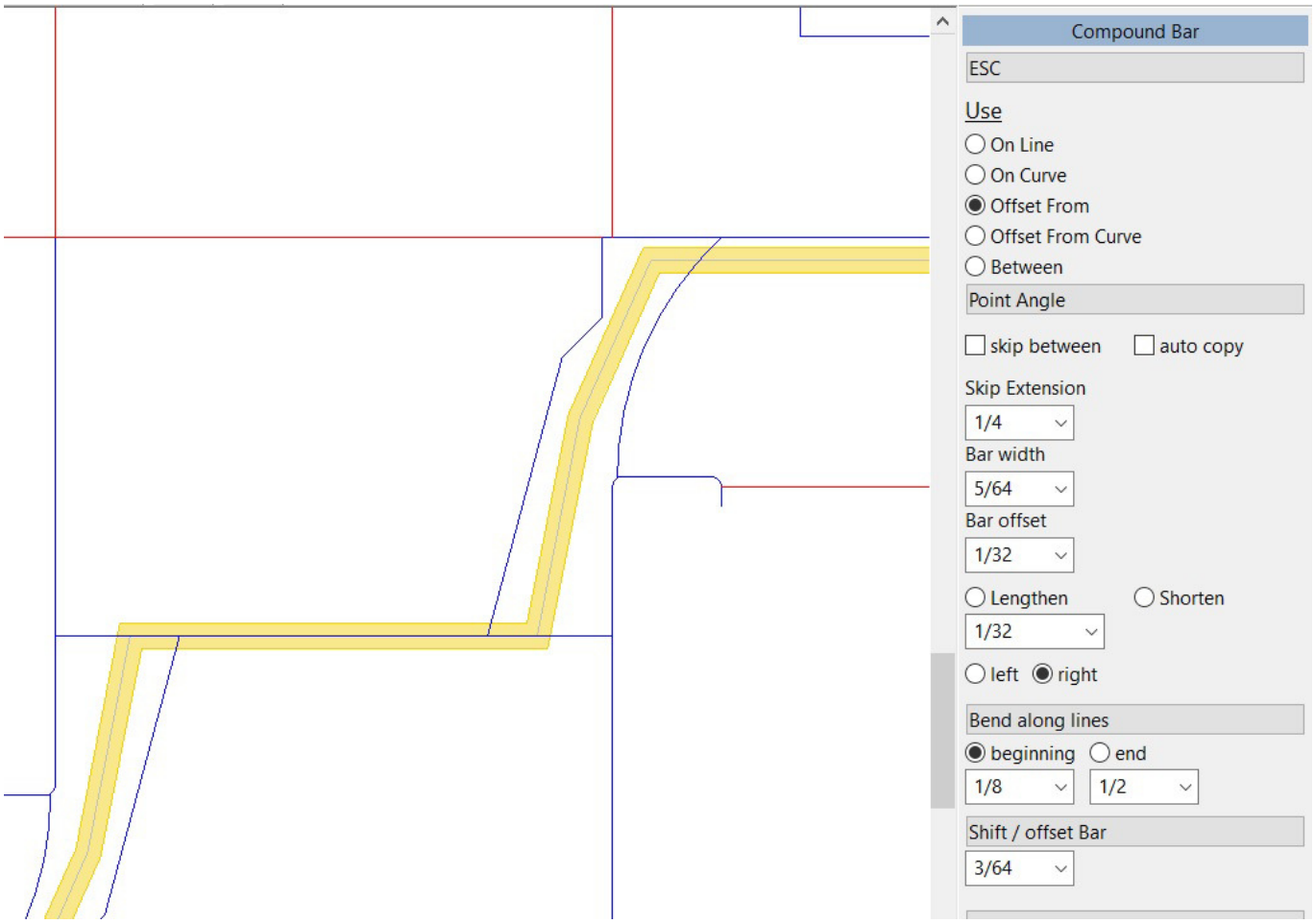


Board caliper	Counter material		with grain	against grain		with grain	against grain
.006 / .15mm	0.011	virgin	0.040	0.044	recycled	0.040	0.044
.007 / .18mm	0.012	virgin	0.042	0.046	recycled	0.042	0.046
.008 / .2mm	0.013	virgin	0.044	0.048	recycled	0.044	0.048
.009 / .23mm	0.014	virgin	0.046	0.050	recycled	0.046	0.050
.010 / .25mm	0.015	virgin	0.048	0.052	recycled	0.048	0.052
.011 / .28mm	0.016	virgin	0.050	0.054	recycled	0.050	0.054
.012 / .3mm	0.017	virgin	0.052	0.056	recycled	0.052	0.056
.013 / .33mm	0.018	virgin	0.054	0.058	recycled	0.054	0.058
.014 / .35mm	0.019	virgin	0.056	0.060	recycled	0.056	0.060
.015 / .38mm	0.020	virgin	0.058	0.062	recycled	0.058	0.062
.016 / .4mm	0.021	virgin	0.060	0.064	recycled	0.060	0.064
.017 / .43mm	0.022	virgin	0.062	0.066	recycled	0.062	0.066
.018 / .45mm	0.023	virgin	0.064	0.068	recycled	0.064	0.068
.019 / .48mm	0.024	virgin	0.066	0.070	recycled	0.066	0.070
.020 / .5mm	0.025	virgin	0.068	0.072	recycled	0.068	0.072
.021 / .53mm	0.026	virgin	0.070	0.074	recycled	0.070	0.074
.022 / .55mm	0.027	virgin	0.072	0.076	recycled	0.072	0.076
.023 / .58mm	0.028	virgin	0.074	0.078	recycled	0.074	0.078
.024 / .6mm	0.029	virgin	0.076	0.080	recycled	0.076	0.080
.025 / .63mm	0.030	virgin	0.078	0.082	recycled	0.078	0.082

The Thinplate for the Brausse 1050SE is now supported in steel counters, and in the router module.

Blankers

When creating compound steel bar profiles in female blankers, various new options were added. A bend-along option was added, so allows an additional bend to be created along a line so more alterations can be made. The shift bar option now has an independent offset and loops rather than running just once. You can also now copy a portion of the compound bar profile, so can create the difficult portion once, and then copy within the individual bar piece so quicker and more consistent results.



New Licensed Laser Driver Modules

The bridge hitting routine used by the laser drivers now also highlights the line that is hitting a bridge, not just the bridge. This makes it easier to decide if the situation can be ignored as just a crease for example. For the Gerber Rotary output, you can now also override the findings so the same as the Elcede / Lasercomb outputs.

Changes were made to the pointage display so that when outputting routed lines to the rotary lasers, rather than the routing lines all appearing the same gray color, they now show the colors of the different routing linetypes, so that you can differentiate which of the routing tools are being used.

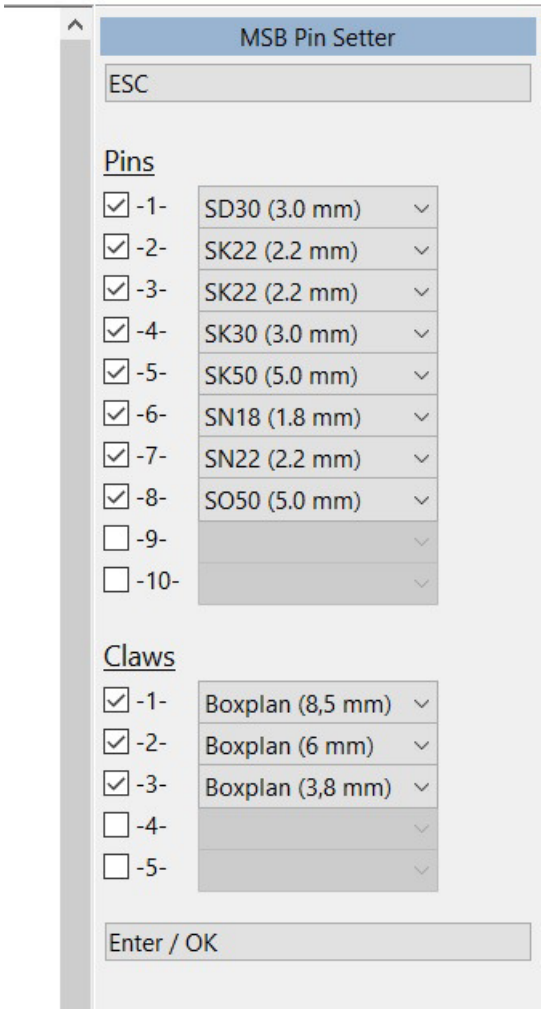
The Elcede / Lasercomb rotary laser drivers now also have quick buttons for outputting and selecting SHELL3 and SHELL4. Also, the Elcede laser driver has a configuration to force the origin to the lower left corner of the shells, even if there is no trim. Both drivers also now disable the "Run Picked Shell" option until one is actually selected.

Both the licensed Elcede and Lasercomb rotary laser drivers now allow all the lines hitting the seams to be automatically split off and shortened with 3-point segments, as is in the Gerber drivers.

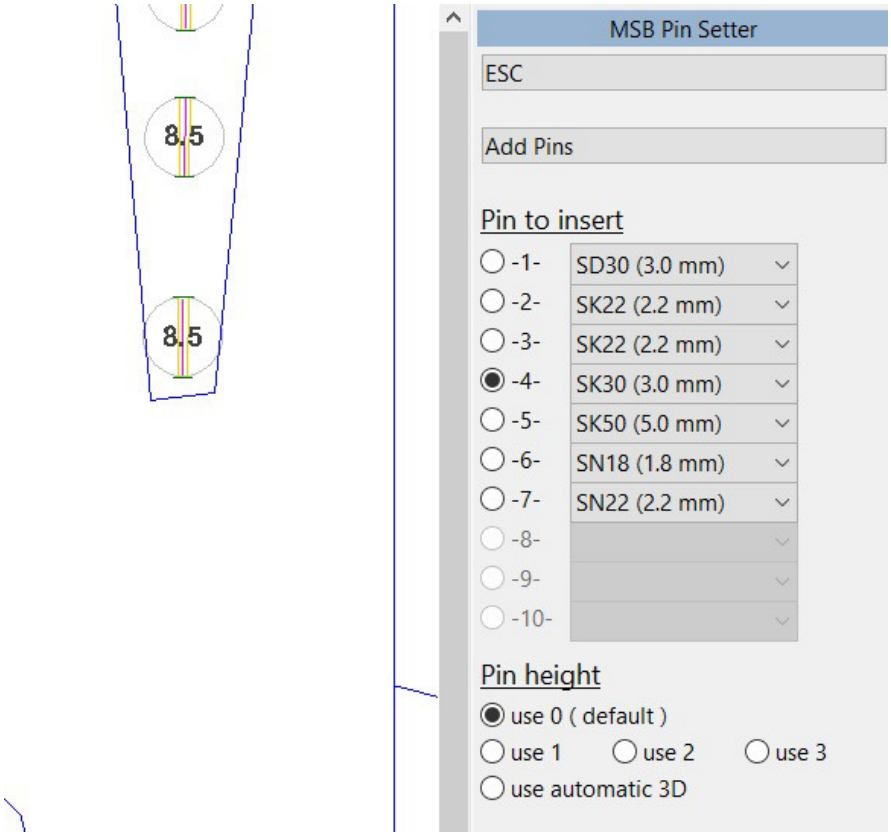
When converting etched text to vectors in the standard laser driver modules, there is now a parameter that allows for outline text to be used instead of single line text.

New Available Driver - Pinsetter

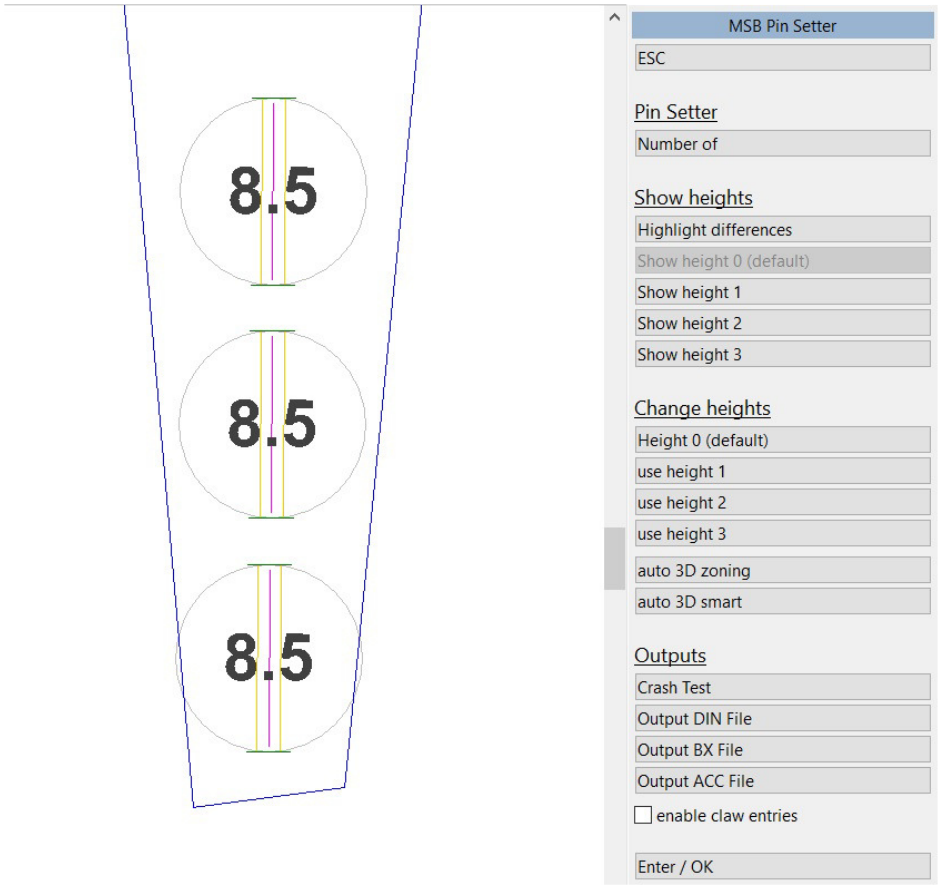
There is now a new driver option available for the pinsetter machine available from Boxplan, and also the Elcede version. You start off by enabling the appropriate number of bins / magazines depending on whether your machine has 6 or 8, and whether you have the new claw / rule inserting option. You also configure what is in each of those bins / magazines as follows.



When you insert pins, you can elect to insert them at different heights, or you can elect to just set those later with some of the automatic options which is easier.



When you are done with the design you can perform the crash test to make sure the design is OK, and change the heights as needed to create a 3D stripping effect.



DOS / Windows 95 / Windows ME / Windows 98 / Windows 2000, and Windows XP

Versions 16.0 / 14.x did NOT support Windows 2000, so required Windows XP at a minimum. **Version 17.0 also no longer supports Windows XP**, so requires Windows 7 at a minimum.

When it comes to DOS, it is now well over 10 years since we went to a Windows platform. Apart from the fact that we basically can't remember how to run the DOS version of CimCAD / CimPACK, almost none of the hardware in our office will even run the DOS version anymore. As such, we have no choice but to stop support for the DOS version, we are no longer capable of offering any effective support for it. We would encourage anyone still running DOS to take the plunge and upgrade their hardware and software. The activators for 17 are also incompatible with DOS, just another example of new hardware basically being Windows only.

Thanks

Windows XP no longer supported

This is what we said two years ago about Windows XP support : ***Versions 16.0 basically still runs OK under Windows XP, granted some things are outside of our control. However, as you can imagine it has become increasing difficult to even maintain this level of functionality. Start making plans, as seems this will be the last version of CimPACK that runs on XP.***

Notice to CimCAD / CimPACK Customers Upgrading from a version earlier than Version 11.0 (such as. 10.4)

Changes made to the Version 11.0 release shipped in July 2004 mean that if you have written any custom software, changes may be required. If that is the case and you need us to train you on the differences with 11.0 please contact us for a quote on that.

If you are upgrading from any 11.x version to 16.x there are no changes required, but if upgrading from Windows 10.4 to 17.x for example, then this applies to you.

If you paid us to write custom software for you, it may need some work done on it to function correctly in the new version.

Standard Laser Drivers and Router Maps supplied by Cimex will be converted free of charge, however means that we need a copy of your complete Local folder (including all sub-folders etc.) to convert, before we can ship your upgrade.

If you have any question on this, please contact us.

Thanks

CimPACK Version 17.0 Windows Edition Upgrade Pricing

From Windows Version	Current V16.1	V16.0	Any V15	Any V14	Any V13	Any V12
first user	$900	$1300	$1500	$1900	$2300	$2600
additional users	$175 per	$200 per	$225 per	$250 per	$275 per	$300 per

Any V11	Any V10	From DOS Versions	Any Version
$2900	$3200	first user	$3500
$350 per	$375 per	additional users	$500 per

***** Please note that all pricing is for users at a single location, not multiple sites *****

To order the Windows upgrade, please fill out the attached order sheet and either mail or fax it to us.

***** Version 17 only runs on a new type of USB key we have switched to, so anyone upgrading to 17 from any version of 11 or earlier needs new activators. Even if you currently have USB keys, we are now using a newer version of those USB keys, they look similar but are about ½ inch shorter than the original ones. Parallel keys have been phased out, as have activators that run DOS, these new keys will run Windows only. The older USB keys no longer used are the HASP4 keys, the newer ones for 12.1 onwards are the HASP SRM keys. If unsure you can go to Help > About CimPACK, and next to the "Activator :" entry it says which type of USB key you are currently using.*****

***** The activator registration forms must be filled in by the end user and faxed back before we can ship any software. The activator registration form provides the necessary information needed for us to program the activators with your license information. *****

Cimex Corporation
30 Front Street, Suite 2
Belchertown, MA 01007
Phone: 413-323-1090
Fax: 413-323-1096
www.cimexcorp.com

CimPACK Version 17.0 Windows Edition Update Form

Company Name _____

Contact Person _____

Address _____

_____

City / State / Zip _____

Phone Number _____

Fax Number _____

Email Address _____

Current version of CimPACK _____

Number of users _____

PO Number being used _____
(terms are net 30)

We wish to purchase the following:

CimPACK Version 17.0 Update $_____

Replacement USB activators @ $75 each $_____

Please check off the shipping method that you would prefer.

UPS Ground _____
UPS Blue 2 Day _____
UPS Orange 3 Day _____
UPS Red Next Day _____

Authorized Signature _____ Date _____

Printed Name _____ Title _____