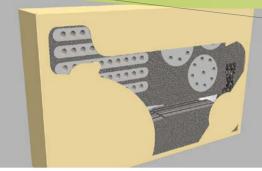
ArtiosCAD Module Descriptions





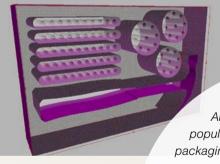


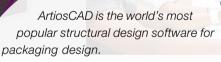














With dedicated tools specifically designed for packaging professionals for structural design, product development, virtual prototyping and manufacturing, ArtiosCAD increases productivity throughout your company. ArtiosCAD is the ideal product for all corrugated, folding carton and POP display designers. It comes with modules that can be added to the basic configuration, depending on your needs.

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Description of the sales bundles

ArtiosCAD 2D Drafting Solution

2D Design Features

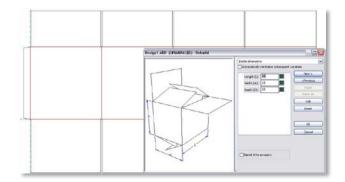
- Geometry is created quickly using a wide range of powerful tools.
- Multiple tools for copying, moving, trimming, splitting, adjusting and stretching geometry.
- Construction lines are available for planning complex work or sketching shapes.
- Expressions can be built using the on-screen keypad. This also supports copying distances and angles.
- Bridges are automatically created when lines and arcs are being constructed using user-defined bridging formula.
- Multiple selection tools quickly select elements either using the cursor or by geometry attributes. The Change tool operates on all selected elements.
- Annotate and dimension designs including a detail function to enlarge and correctly dimension small areas.
- Quickly define printed and varnish areas in a few keystrokes using specialized tools.
- Import from DDES, CFF2, DXF, DWG, HPGL formats.
- Import PDF files as vectors to map geometry data to ARD line types.
- Tracks corrugation/grain direction and inside/outside of designs to prevent errors in communication.
- Copy and Paste with the Windows clipboard copies geometry between designs as well as copying to other applications.
- Output to a plotter, report, sample table or any of the ArtiosCAD output formats (DDES, CFF2, DXF, DWG, HP-GL or EPS).
- Export designs to PDF, including the structure as well as any PDF files imported as graphics.
- Samples produced by ArtiosCAD have numerous configuration options including fine tuning the processing of special rules such as perf or cut/crease and specifying how tight corners of the design are to be cut to avoid tearing. There is especially strong software integration available when driving Kongsberg tables.
- Unique CloseUp windows allow any area to be enlarged without changing the main view and can be moved around to give you an on-screen magnifying glass.

Rebuildable Design Features

- Build new designs from any style in the style catalog.
- Shows documentation diagrams on screen when entering values.
- Validate the data entered to verify it meets the guidelines expected by the creator of the standard. This prevents styles being accidentally used for inappropriate jobs.
- Rebuild designs created from the style catalog or custom styles with different sizes, board or other parameters.
- New designs created will automatically have the fold angles pre-defined if the style being used was previously folded.
- Display Standards: New POP display standards have been added to the style catalog. Design POP displays in minutes with parametric design templates.

Graphic Features

- Artwork from any graphics system can be imported into ArtiosCAD. Graphic formats supported are PDF, JPEG, TIFF, PNG, BMP and DIB.
- The artwork can be accurately registered on the structure with a single click.
- Open normalized PDF with embedded link to ARD and graphics are automatically registers to the structure.
- Correctly registered cutouts and windows can be created by tracing the artwork with the drafting tools.
- Line-art can be created directly in ArtiosCAD using tools for color fills and strokes.
- Graphics can be used to automatically carry artwork into print cards, PDF's, etc.



Database Access Features

- Add an unlimited number of user-defined fields to be collected with all designs and tracked in the database.
- User-defined fields are units-aware i.e. they correctly convert between inch and metric depending on the type of data.
- Manually enter data or automatically calculate based on the geometry of the design.
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- The designer, salesperson and owner for designs will also be tracked in the database.
- Search for designs in the database using any userdefined fields.
- Information Filter defines outputs for your customers and suppliers to insure they always are sent designs in the file format needed and to control the amount of information received.
- Directly creates e-mail messages from ArtiosCAD with attached designs.

Reporting Features

- Construct report templates that can be run by any user with Connect.
- The view of the designs on the report can be precisely controlled.
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- Multiple designs and manufacturing layouts can be combined on a report.
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- Fold angles for designs are remembered allowing rapid switching between flat and folded views.
- Measure distances in the folded view to check allowances and offsets.
- Combines multiple designs to create complex assemblies.
- Creates folded designs directly from DDES or CFF2 format files.
- Import Collada, VRML and .BAG 3D models.
- Export Collada and VRML single designs or multicomponent designs.
- Export 3D images to a PDF document, including interactive 3D PDF, to create detailed and accurate renderings of 3D models.



3D Animation Features

- Animation steps can be recorded as the design is folded or assembled, creating a 3D view with animations quickly.
- Fold angles and animations for designs are remembered allowing rapid switching between flat and folded views.
- Combine multiple designs to create complex animated assemblies.
- Export 3D files as AVI and QuickTime movies.
- Export 3D files as 3D PDF with animation that can be viewed using a free Adobe® Reader®.
- Export 3D files as VRML models that can be viewed using any VRML browser plugin. VRML models can even be viewed over the Web.
- Animated 3D PDF and VRML models can include a toolbar to play the entire animation, step forward or backward through an animation or display the model with transparency.
- Export individual frames as PDF PowerPoint or Word documents.
- Export Animation frames for assembly drawings in PDF format.
- Using the clipboard, Animation steps can be used to create detailed assembly drawings.

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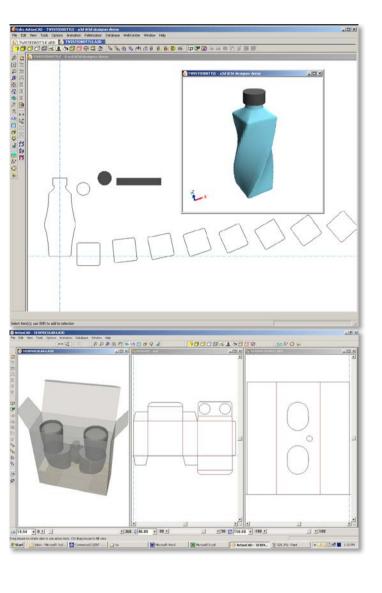
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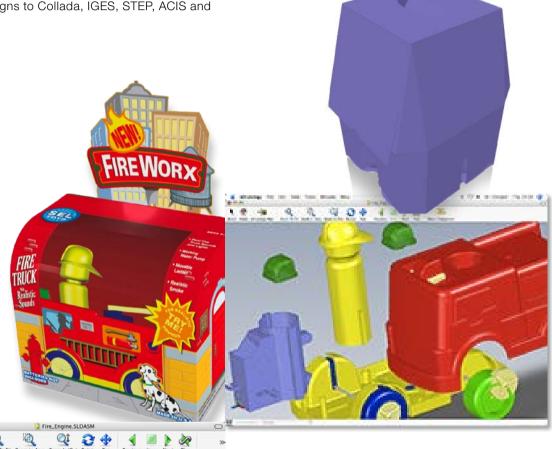
3D Design Features

- Create realistic product models of cans, bottles, containers and bags.
- Combine these product models with folding cartons and corrugated boxes to create presentations of the product and its packaging.
- Add graphics such as labels to the models created with to produce realistic product representations.
- Create cross sections and intersections based on one or more 3D objects
- Run a standard parametric design to one or more 3D objects
- Animate the models to create VRML models can include a toolbar to play an entire animation, step forward or backward through an animation or display the model with transparency.
- Export 3D images to a PDF document, including interactive 3D PDF, to create detailed and accurate renderings of 3D models.

3D Data Exchange Features

• Import Collada, SolidWorks(*), CATIA V4, CATIA V5, IGES, STEP, SAT, ProEngineer, Parasolid, NX format 3D solid files directly into ArtiosCAD 3D.

• Export 3D designs to Collada, IGES, STEP, ACIS and XCGM format.







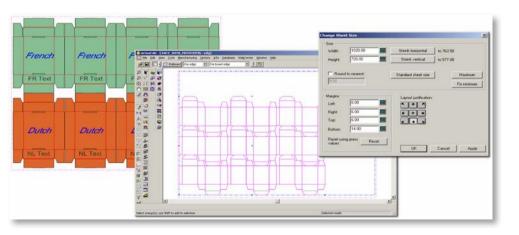
ArtiosCAD Layout Tools

Basic Features:

- Powerful nest and copy tools graphically construct sheet layouts.
- Mixed sheet layouts are built by adding different designs.
- Tracks sheet side, grain direction and board and checks consistency with every design added.
- Designs with multiple print variations are supported and tracked on the sheet layout.
- Calculates sheet size using the edge allowances for the selected machinery.
- The use of designs and print variations on each layout are tracked in the ArtiosCAD database.
- CAPE Integration: Layout pallet of blanks in ArtiosCAD, show stripped or non-stripped blanks. Send CAD data to CAPE and eliminate duplicate data entry.

Advanced Features

- Automatically create nested layouts of a single 1-up Design on a user-defined set of standard sheet sizes.
- Examine thousands of layouts to find the solutions with lowest production cost to meet the order requirements and production constraints.
- Minimum and maximum overrun quantities determine how close the solutions must be to the exact order requirements.
- Solutions can be controlled by setting rules for gutter distances and which designs can nest with others.
- Create multiple cost centers to model the production process.
- Costs are calculated based on the printing press and diecutter selected. All configured cost centers can be included in the calculations.
- Graphical formula editor sets up costing rules for print items.
- Prompted variables are used to set additional parameters for adjustments to the costing formula.
- Each cost center operates on whole sheets of individual designs. Design cost centers can either operate on all print variations together or have separate make-ready for each print variation.
- Calculate production costs for a design at different quantities.
- The full costing results can be included on ArtiosCAD reports.



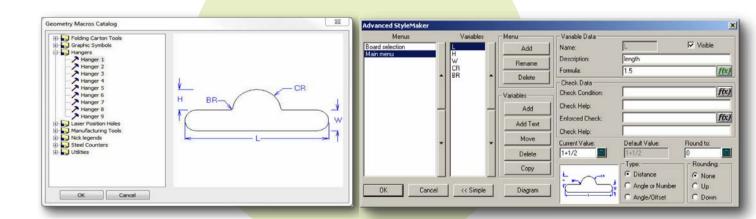
ArtiosCAD Resizable Design Tools

Basic Features

- Create fully parametric designs.
- Add variables to designs to control parametric geometry that can be rebuilt with different sizes.
- Tools to convert fixed designs to variable geometry.
- Rebuild Playback examines and adjusts the construction of parametric designs.
- Access a library of general-purpose geometry tools to quickly add components to designs.
- Specify lengths and angles based on existing lines using the on-screen keypad to further control how geometry changes when designs are rebuilt.
- Automatically identify units allowing styles to work in inch or metric values with no additional work.
- Create a documentation diagram for the design showing how the variables were used.
- Add parametric designs to the Style Catalog to make them available to all users.

Advanced Features

- Tools for creating advanced self-documenting standards.
- Create variables with default expressions based on other variables.
- Create check conditions to enable user entry validation.
- Group variables in multiple menus with individual documentation diagrams to simplify use and control relationships between the variables.
- Style choice variables allow users to pick from a list of options.
- Documentation diagrams for variables can vary based on prior style selections.
- Graphical formula editor simplifies complex, conditional and constrained expressions.
- Functions in the formula editor allow standards to run with meaningful values in either inch or metric units.
- Library functions allow central management of frequently used expressions.
- Variables can be hidden to prevent changes by users



ArtiosCAD Die-Making, Basic

Die-Making Features

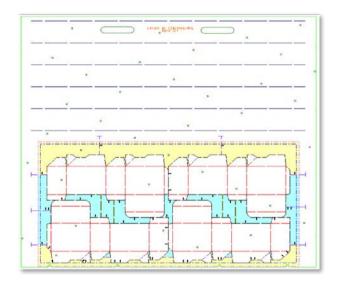
- Tools to place stripping rules including auto-repeat to duplicate stripping rules for equivalent designs.
- The gripper finger positions can also be shown when needed as a guide.
- Constructs chop knives to break up waste.
- Builds the dieboard edge and select mounting holes following the requirements for the selected diecutter.
- Places balance knives following the Bobst formula.
- Places hand holes and identifying names on the dieboard.
- Fine tune the dieboard geometry with standard drafting tools.
- Creation of multiple piece dieboards.
- Creates coating blankets based on the bleed or varnish areas defined in the design ready for cutting on a sample table.
- Define parameter sets to remember the preferred choices for the many alternatives the system provides. Parameter sets are particularly valuable when different customers require different tooling construction.
- The completed dieboard can be manufactured using the available drivers for a wide range of numerically controlled machines including laser diecutters and full scale drafting tables as well as output to any standard format for use by your diemaker.
- Customize output options to optimize the cutting sequence and use of tooling.

Rotary DieMaking Features

- Dieboard splits can break die shells horizontally or vertically. The subtended angle of the shell is shown when making horizontal splits to allow accurate design of 180-degree shells.
- Mounting holes can be adjusted horizontally or vertically for rotary dieboards.
- Rule paths are automatically calculated and can be manually adjusted as needed. Manual changes are automatically repeated to equivalent rules across the dieboard.
- Bridges for rotary rules are placed on teeth on the rule paths. Manual changes to bridging will graphically jump bridges from tooth to tooth.
- Calculates drilling and cutting sequencing for output of dies to the Kongsberg DieSaw.

Stripping Features

- Automatically designs top and bottom stripping for waste areas using pins, rules and blocks.
- Creates slots for carrier rules to support the board across large holes in the bottom stripper.
- Supports interference or power stripping for highspeed production.
- Creates air holes in top stripper for maximum performance.
- Automatically builds the front waste separator.
- Fine-tune any stripping tool geometry with standard drafting tools.
- Creates alignment notch, mounting holes and bolt holes for support bars to accurately position tools in the press.
- The stripping elements for one area can be automatically repeated in every equivalent area across the layout.
- Provides multiple options for outputting finished tooling design to laser diecutters or for transmission to a diemaker.
- The automatically created stripping design is configured following rules set up by the user and can be manually adjusted if needed for special situations.
- Many other options including burning the bottom tool together with the blocks needed for the top stripper in one operation or output to any standard format for use by your diemaker.



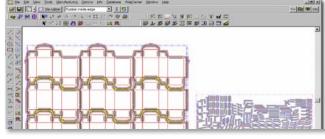
ArtiosCAD Die-Making, Advanced

Counter Features

- Automatically constructs steel or phenolic counters for designs.
- Extensive parameters support of partial cuts, reverse cuts and creases, embossing, tack bridges, tool angles and widths, treatment of the periphery and the chamfer.
- Parameter sets remember all settings allowing different styles of counters to be easily created.
- Specialized tools for rebuilding the chamfer, adding straps, adding tack bridge and adding a cut name to the counter.
- Builds counter layouts to efficiently utilize the counter material.
- Actual counter cutter tool widths can be specified on output allowing a different machine to be used without redesigning the counter.
- The chamfer can be recalculated after making manual changes to give the ideal mix of automation with manual control.
- The counter can be modified with standard drafting tools.
- The location of the counter mounting pin holes are automatically calculated from the corresponding counter position holes in the design.
- Create counters suitable for multi-spindle counter cutters.
- Specialized features for creating one-piece steel counter plates automatically, including:
- channel end cutback to provide a land for the cut knife
- crease end cutback to provide for material compression
- specify frame profile, name, die-board registration holes, storage holes, and more
- configure outputs for counter plate milling

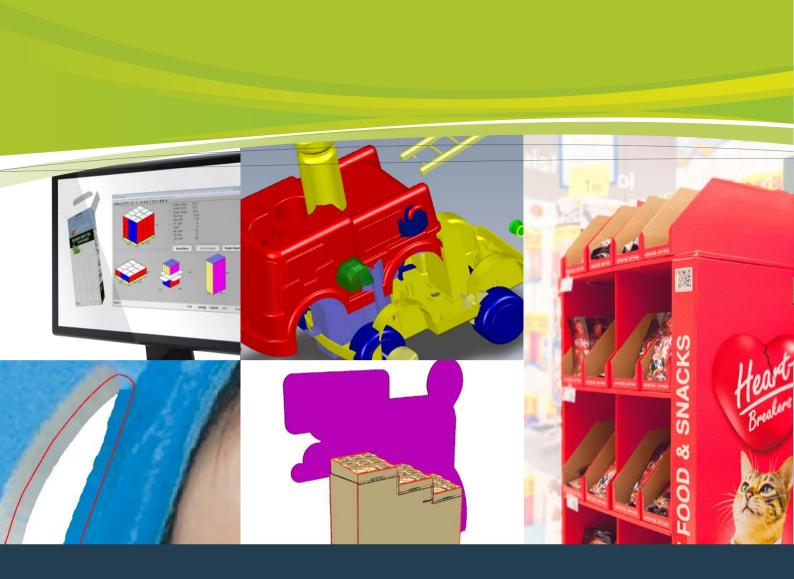
Rubber Design and Layout Features

- Automatic one-click generation of ejection rubber profiles.
- Automatically apply appropriate rubber to 'slot' or small areas.
- User configurable parameter sets for different customers and die types.
- Full range of edit tools for all similar shapes or on an individual element level.
- Select special rule types (cut crease, zipper and more)
- Supports nicks and bolt holes.
- Supports multiple rubber types including the use of stock rubber (e.g. Profile rubber) in combination with custom cut rubber shapes.
- Rubber can be designed for conventionally rubbered dies as well as those using TopMatrix[™] (both full and scrap only).
- Easily accommodate spares and remakes with the layout feature.
- Layout feature reports percent usage for each sheet.
- Stock size sheets and remaindered sheets can be used to maximize sheet usage.
- Reports, and screen views of the die and rubber layouts can be produced with and without element numbering and color coding.
- Production reports can be created for each sheet.
- Highlight all similar elements in the die and the rubber layout with a single click of the special select tool.
- Rubber element numbers and profiles can be etched on the die.
- Water jet cutters (with or without multiple heads) are supported.





SALES BUNDLES	OLD MODULES NAMES	
ArtiosCAD Connect	Connection Plus	
BASE SOLUTIONS		
ArtiosCAD 2D Drafting Solution	Connection Designer Builder ArtMaker PDF Import / Export CAD Server	
ArtiosCAD 3D Drafting Solution	Connection Designer Builder ArtMaker PDF Import / Export CAD Server Basic 3D 3D Animation	
ArtiosCAD 3D Modelling Solution	Connection Designer Builder ArtMaker PDF Import / Export CAD Server Basic 3D 3D Animation 3D Designer 3D Importer	
OPTIONS		
ArtiosCAD Resizable Design Tools	StyleMaker Advanced StyleMaker	
ArtiosCAD Layout Tools	Layout Intelligent Layout	
ArtiosCAD DieMaking Tools – Basic	DieMaker Stripping Rotary DieMaker	
ArtiosCAD DieMaking Tools – Advanced	Intelligent Counters (includes Blanking & Steel Counters) Rubber Design & Layout (Requires DieMaking tools basic)	
SOLUTION UPGRADES		
ArtiosCAD 2D Drafting to 3D Drafting Solution	Basic 3D 3D Animation (Requires 2D Drafting Solution)	
ArtiosCAD 2D Drafting to 3D Modelling Solution	Basic 3D 3D Animation 3D Designer 3D Importer (Requires 2D Drafting Solution)	
ArtiosCAD 3D Drafting to 3D Modelling Solution	3D Designer 3D Importer (requires 3D Drafting Solution)	



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