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**1. The latest mode to grade a product using four different grading size categories.**

<b>Gemini Grading on four different size categories</b>	<b>1.</b>	<p>Next to the numerous facilities added on the latest Gemini X8 version, the grading on different size categories represents the change who mostly improves the product grading. Thus, the designer has the possibility to grade the product for a wide range of customers.</p> <p>Now, in Gemini Pattern Editor the user has the possibility to establish 4 grading categories (grade, drop, spec and extra sizes). In addition, the program calculates automatically the sizes and grading combination from all four grading categories, obtaining in this way a combined size set.</p> <p>All reference point will have now four grading tables, each one corresponding to a size category, and the grading operations will be done on the active grading table.</p>
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**2. New facilities in Gemini**

<b>Application</b>	<b>Cr No.</b>	<b>New facilities or modifications in program:</b>
<b>Gemini Pattern Editor</b>	<b>1.</b>	<p>The "Edit size set" window looks different now. You can edit four different grade size sets. They will be automatically combined if when editing the size set, the "Generate automatically" setting is checked.</p>
<b>Gemini Pattern Editor</b>	<b>2.</b>	<p>In "Grading" tool mode, you can change a size shape without affecting the others. To change a size shape using this method, select first this size as base size and then activate the <b>"Modify the shape of the piece on the base size without changing the other sizes"</b> button. As long as this function is active, you can reshape a piece, as in <b>"Shape"</b> tool mode. This means that you can move a graded point, a curve point or a control point by mouse drag. To modify precisely a point position, you can use the arrows from key board.</p> <p>After this change, all control and curve points will keep them grading independent from the neighbor graded points.</p>
<b>Gemini Pattern Editor</b>	<b>3.</b>	<p>You can cancel the changes made on the base size, in <b>"Grading"</b> tool mode without altering the other sizes. For this, make a click on the arrow next to the <b>"Cancel the "Manual modification" of one size for the selected points"</b> button and from the opened menu choose:</p> <ul style="list-style-type: none"> <li>- <b>"Cancel the "manual modifications" for points"</b> in case you want to cancel the grading only for the selected points</li> <li>- <b>"Cancel the "manual modification" for piece"</b> in case you want to cancel the manual grading for the entire piece.</li> </ul> <p>If you choose one of this two options, all curve and control points positions, who was manually changed in "Grading" tool mode, will be recalculated according to the nearby points grading.</p>

<p><b>Gemini Pattern Editor</b></p>	<p>4.</p>	<p>You have the possibility to add a new size in <b>Grading</b> tool mode anywhere you need in the size set. For this, you must complete properly the “Grade index”, “Drop index”, “Spec index” and “Extra index” fields. Thus, the new size will be added next to the size with the index in order smaller than the latest inserted one. The user can insert also a decimal number as index. The new added size will be graded automatically proportionally with the nearby already existing grading. The grading step will be calculated proportionally with the grading step from the nearby sizes.</p> <p>Any size from the size set can be deleted without affecting the other sizes.</p>
<p><b>Gemini Pattern Editor</b></p>	<p>5.</p>	<p>You can display grading in two ways:</p> <ul style="list-style-type: none"> <li>- the graded sizes appears with the contour colored different for each size</li> <li>- or the graded sizes appears filled with color, each size having a different color.</li> </ul> <p>You cannot display grading in both ways on a single piece, but you can pass from one way to the other by checking the desired option.</p> <p>Besides grading, you can display the grading direction for each graded point, and you can check the grading category for which you want to display grading.</p> <p>To choose how to display grading, the user must make a click on the “Show/hide grading” button. Choose the desired option from the opened menu.</p>
<p><b>Gemini Pattern Editor</b></p>	<p>6.</p>	<p>There are new functions and options about copying a point grading from one piece to another point from a different piece. For this, select first the graded point to copy grading from it, then make a click on the “<b>Copy point grading in clipboard</b>” button; after this, select the point where you want to paste grading and make a click on the “<b>Transfer grading from clipboard</b>” button.</p> <p>The user can copy grading as it is, or he can copy grading flipped on X, flipped on Y, or flipped on both ways X and Y. All these options are displayed in the “Copy point grading in clipboard” button menu, if you make a click on it extension.</p> <p>You can transfer grading flipped on X and Y, flipped only on X or flipped only on Y. All this options are displayed in the “Transfer grading from clipboard” button menu, which opens if you make a click on it extension.</p>
<p><b>Gemini Pattern Editor</b></p>	<p>7.</p>	<p>In the “Edit size set” window, you can hide the unused size sets. For this, after editing the size set, check the “<b>Hide the unused size set</b>” setting.</p>
<p><b>Gemini Pattern Editor</b></p>	<p>8.</p>	<p>Now, in Gemini Pattern Editor you have the possibility to view all pieces displayed into a table called “<b>Piece bar</b>” placed on top of the screen under the tool bars. The table can be hidden or displayed. In piece bar, you can select one or many pieces, if the “Select the pieces on the screen” function is checked.</p> <p>You can zoom the selected piece, from the “Piece bar”, if the “<b>Zoom to the pieces on the screen</b>” is checked. When selecting the piece, it will be centered on the screen.</p>
<p><b>Gemini Pattern Editor</b></p>	<p>9.</p>	<p>In Gemini Pattern Editor, you can create new pieces using the already existing pieces or only sections from them. All sections can be joined together into a new piece. For this, you must use the “<b>Trace mode-draw around the contour of the existing pieces</b>” function, from the second tool bar in <b>Drawing</b> tool mode.</p>

<p><b>Gemini Pattern Editor</b></p>	<p>10.</p>	<p>Now you can apply automatically <b>“Bulge”</b> function on a piece, many times.</p> <p>To enlarge a piece, by applying the <b>“Bulge”</b> function into many points, you must pick up the function first from <b>Shape</b> tool mode. After activating it, a window will be displayed on the screen containing the steps to be taken to apply the function: <b>“Select the breaking point”</b> and then <b>“Select a fixed point different by the breaking point”</b>.</p> <p>You can start selecting the indicated points, when the cursor turns into a selection cursor, to apply the function in this way: select the first breaking point, select the fix point, select the second breaking point, then select the fix point (which can be the same with the first one or different) and so on till selecting all desired breaking points with the corresponding fix points. When the selection is done, make a click on the “Apply” button, and in this moment, a new window will be displayed on the screen. This window is called <b>“Bulge settings”</b>, and you can insert here the angle or distance bulge values. If the user types a single value in the corresponding field, this value will be split equal into the selected breaking number of points (if you have for example 3 breaking points, the inserted value will be split into three parts). If you want to apply different bulge in the breaking points, you must insert separate values for each breaking point (the values order must be the same with the breaking points selection order).</p> <p>In addition, you can select in <b>“Bulge settings”</b> window the type for the processed contour. You can set it to be <b>“Processed”</b> – meaning smooth or <b>“Unprocessed”</b> – meaning cusp.</p>
<p><b>Gemini Pattern Editor</b></p>	<p>11.</p>	<p>Starting with this version, the user has the possibility close automatically folds. For this, there is a new function in <b>Shape</b> tool mode called: <b>“Bulge close”</b>.</p> <p>This function can be used to eliminate the surplus from a piece. For example, if you need to transform a model with a large silhouette in a model with tight silhouette, than you can remove automatically the plus from large model by using one of them.</p> <p>For this, you must establish four points who determines the surplus, then pick up the <b>“Bulge close”</b> function, from <b>Shape</b> tool mode and select the desired points. When finish the selection, the section determinate by the selected points will be eliminate, and the remained two sections will be joined together into a single piece.</p>
<p><b>Gemini Pattern Editor</b></p>	<p>12.</p>	<p>The « French curve » is a special curved draw tool, used by designer to draw the plane curves.</p> <p>In <b>Shape tool mode</b>, you have the possibility, to add a French curve on the piece contour. This tool is very useful to create all curved shapes like arm wholes, sleeve curves, neck wholes, etc.</p> <p>Adding a French curve on a piece presumes first to create a French curves library (a French curves collection) with the most used curves shapes. This means to create first the needed shapes, and then to save them in the library from where the user will take them later and he can use them as many times as he needs.</p> <p>If you want to add French curves into the French curves library or if you want to use one of the existing, you will have to access one of the <b>“Add a French curve to the selected piece”</b> function options.</p> <p>The user has the possibility to just check or review the French curves list by opening the <b>“View French curves”</b> window, directly from the General setting window of the Gemini Pattern Editor application. For this, you must make a click on the <b>“View French curves”</b> button.</p>
<p><b>Gemini Pattern Editor</b></p>	<p>13.</p>	<p>You have the possibility to load patterns cut or digitized with a special device called <b>DigiPen</b>. This device contains a table and a pen.</p> <p>Using the DigiPen device, the piece shapes is memorized into a file that follows to be read in the Gemini Pattern Editor application. To load such a file, you must access the <b>“DigiPen”</b> function from <b>“Draw”</b> tool mode.</p>

<p><b>Gemini Pattern Editor</b></p>	<p><b>14.</b></p>	<p>Now you can overlap pieces pint to point, even if the pieces are grouped. Thus, when you select many pieces, all grade points from the selected pieces are active and you can select any point to overlap it to other point from a different piece that don't makes part from the group, using ALT key from key board.</p>
<p><b>Gemini Pattern Editor</b></p>	<p><b>15.</b></p>	<p>In Garment Tool working mode, you can create a sequence of internal points on a piece. This means that you can create many internal points in the same time. To create a sequence of internal points, you must select first the piece where you want to create it, then make a click on the <b>“Create a sequence of internal points”</b> button and then select a path from inside the pattern. The path can be represented by an internal element like depended line, parallel to the contour, translated contour, by a section from an auxiliary piece or by an internal axis, like text axis or grain axis. The user can establish the path direction, the offset for the first and the last point from the sequence, the internal technical points type, and how they will be drawn. You have two choices: to insert a number of points with a specific distance between or you can insert a number of points equal distributed.</p>
<p><b>Gemini Pattern Editor</b></p>	<p><b>16.</b></p>	<p>The segments dimension can be displayed directly on the piece. For this you can activate the <b>“Show/hide distances on the pieces”</b> from the first tool bar, in Gemini pattern editor application. The dimensions will be displayed on all pieces in the same time.</p>
<p><b>Gemini Pattern Editor</b></p>	<p><b>17.</b></p>	<p>If there is a model picture in the “Product technical sheet”, the user can preview this picture, in the open model window. For this, he must check the <b>“Preview product drawing”</b> option from the <b>“Open model”</b> picture.</p>
<p><b>Gemini Pattern Editor</b></p>	<p><b>18.</b></p>	<p>The user has now the possibility to create his color profile. This thing can be done in the <b>“Settings / Colors”</b> window. Here, the user can change the background color, the pieces color, the panels, the buttons and the editable fields color.</p>
<p><b>Gemini Pattern Editor</b></p>	<p><b>19.</b></p>	<p>In Gemini Pattern Editor, you can import files directly from Investronica data base. From all Investronica files, you can import only the piece and model files. To import files from Investronica data base, make a click on the “Model” written menu, then choose <b>“Import”</b>, and from the opened menu, make a click on the <b>“Investronica Data Base”</b> option.</p>
<p><b>Gemini Pattern Editor</b></p>	<p><b>20.</b></p>	<p>The user can change the Default plotter path, but it cannot be deleted from the plotters list. In this list it will appear on the last position.</p>
<p><b>Gemini Pattern Editor</b></p>	<p><b>21.</b></p>	<p>Now, the digitizing table dimensions are automatically completed. For this make a click on the <b>“Edited profile”</b> button and then check the <b>“Set dimensions”</b> from the <b>“Edit digitizer profile”</b> window. After this make a click on the right up corner from the active digitizing area table.</p>

<p><b>Gemini Pattern Editor</b></p>	<p>22.</p>	<p>If you copy a piece from one project to another, the piece will be paste graded, even if the size sets from the two projects are different.</p> <p>After copying a piece in this way, the size set from the project where you have paste the piece, will be changed, depending on the indexes and the size sets from the source project. All grading from the new copied piece, who doesn't exists in the destinations project will be inserted automatically on all other pieces from the destination project and backwards, all piece grading from the destination project who doesn't exists on the new piece (s) will be inserted automatically on the new pieces.</p> <p>If the new copied piece contains grading on a different size set than the destination project, the result will be a combined size set for the destination project.</p>
<p><b>Gemini Cut Plan</b></p>	<p>1.</p>	<p>If you want to eliminate pieces obtained by doubling a piece, you must check the <b>“Don't load the double pieces for double sheet”</b> setting. If this message remains unchecked, all pieces will be loaded on the marker, without the corresponding mirrored symmetrical pieces.</p>
<p><b>Gemini Nest Expert</b></p>	<p>2.</p>	<p>The user can change the Default plotter path, but it cannot be deleted from the plotters list. In this list it will appear on the last position.</p>
<p><b>Gemini Nest Expert</b></p>	<p>1.</p>	<p>In the <b>“Marker”</b> window bottom from <b>“Marker settings”</b> window, the user has the possibility to view the total marker weight, the used fabric weight, and the wasted fabric weight. All these information are automatically computed and displayed, if the user has set a value for the <b>“Specific weight”</b> in Gemini Cut Plan program and if the marker is nested. If you haven't set this in Gemini Cut Plan, all this will be displayed only if you complete the “Weight per unit” field from the <b>“Marker weight”</b> section.</p>
<p><b>Gemini Nest Expert</b></p>	<p>2.</p>	<p>The user can change the Default plotter path, but it cannot be deleted from the plotters list. In this list it will appear on the last position.</p>
<p><b>Gemini Nest Expert</b></p>	<p>3.</p>	<p>You have the possibility to edit and to print a Marker Report. This report contain all the information about the current marker, the obtained consumptions, the quantities and the sizes used for each model from marker even if you have nested many models and if you didn't placed all the pieces.</p>

## 2. Fixed errors in Gemini

Application	Nr.	Fixed errors
<p><b>Gemini Pattern Editor</b> <b>Gemini Cut Plan</b> <b>Gemini Nest Expert</b></p>	<p>1.</p>	<p>In plotter list from Export PLT window will be displayed the last plotter used. If the user usually plots with a different plotter than default plotter, it is not necessary anymore, to select for each PLT export, the used plotter.</p>
<p><b>Gemini Cut Plan</b></p>	<p>1.</p>	<p>In the Cut Plan Report, on the „Length” and „Total fabric” columns, it is added also the spreading gap</p>
<p><b>Gemini Nest Expert</b></p>	<p>1.</p>	<p>In the table „Piece properties” you can not set anymore, different properties for the halves of the same piece.</p>

### 3. Useful information and advises:

1. Most of the latest facilities and the fixed errors were included according to the customer suggestions and therefore we thank them for their contribution to improving our program. We advise you read carefully about all the latest changes in the program, since chances are you might find useful many of the things we added on request from other users.

2. The Gemini Application version X8 lunched on 05.12.2007 contains all the latest updates to all Gemini applications. Please make an update from [www.geminiCAD.ro](http://www.geminiCAD.ro) – the download section if you don't have the latest version yet. You can read the version number in the splash window. You must know that for the moment the latest updates are free!

3. In the “User guide version X8” and the “User guide appendix no. 11” you will find explanations to all new functions. Please ask for the Appendix if you don't have it! All changes are included also in the “Program help”.

4. We advise you study all last changes in the program and to try to use them; all updates and changes are meant to make your work using Gemini programs easier.

Success!

From the latest changes the most important and useful are:

<b>Applications</b>	<b>Cr. No.</b>	<b>Explanations</b>
<b>Gemini Pattern Editor</b>	<b>1, 2, 3, 4, 5</b>	The grading mode is improved.
	<b>9, 12</b>	You can draw by following the contour of already existing pieces and you can add on pieces French curves.
	<b>10, 11</b>	You can automatically open or close many folds.
	<b>19</b>	You can import pieces and styles directly from Investronica database.
<b>Gemini Cut Plan</b>	<b>1.</b>	You can set to not load on marker the pieces set as double if you want to spread double layer with half of pieces.
<b>Gemini Nest Expert</b>	<b>1.</b>	The user can see the total weight of the marker.

## 5. For the next versions:

<i>Application</i>	<i>Cr. No.</i>	<i>In work:</i>
<b>Gemini Pattern Editor</b>	<b>1.</b>	You will be able to select many internal elements as notches or internal points.
	<b>2.</b>	<p>It is in work the GeminiCAD 3D Simulator which will allow:</p> <ol style="list-style-type: none"> <li>1. to get dressed interactive and dynamically the model</li> <li>2. the opportunity to handle in real time the designed clothes</li> </ol> <p>Using different words, you will be able to drag and drop the cloths, to rotate, to move the legs and the hands of the model, to execute movements like walking, sitting, chest rotation and in all this time the clothes simulation will be in real time.</p> <p>We are working on a three dimension simulation module who permits to:</p> <ol style="list-style-type: none"> <li>1. dress dynamically and interactively the mannequin</li> <li>2. And the possibility to manipulate in real time the simulated clothing.</li> </ol> <p>In other words, in Gemini 3D module, the user will have the possibility to move the clothes, to rotate them, to move the mannequin hands and legs, and to execute movements like: waking, sating, inclination, or chest rotation. In all this time, the clothes simulation will be done in real time together with simulating the usage rate, the comfort rate or the product or the product stretching in some areas. Etc.</p>
<b>Gemini Cut Plan</b>	<b>1.</b>	The Gemini Cut Plan will generate a new report which cumulates the information from „Cut Plan Report”.
<b>Gemini Nest Expert</b>	<b>1.</b>	The Update function will be added in Gemini Nest Expert also. This will allow you to update a pattern file. If you make some changes in the project on the piece contour (lengthen, shorten, add a notch) or inside the piece (technical points, auxiliary pieces, grain axis) you will be able to keep the nesting
	<b>2.</b>	You will be able to delete or to add pieces for nesting directly in Stock area.
	<b>3.</b>	You will be able to set also the segment gap not only the up/ down/ left/ right gap.
	<b>4.</b>	You will be able to export as HPGL file several markers at the same time.