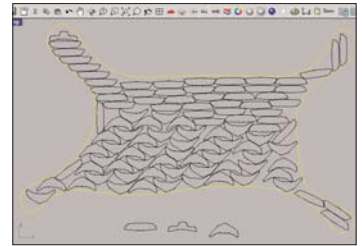
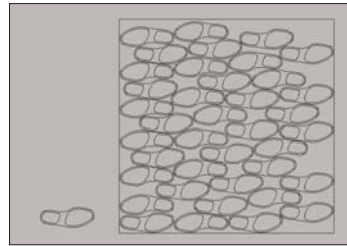
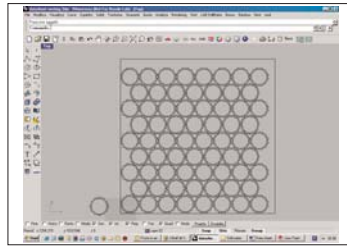
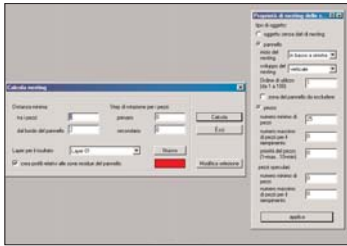




MOSAIX

nesting software



THE TOOL

Mosaix is nesting software, a Rhinoceros plug-in, that makes it possible to automate the arrangement of a series of profiles inside closed areas.

USE

Nesting is an irreplaceable application in various machining operation fields, and is used to automatically arrange the pieces to be created on metal sheets, sheets of glass and marble, pieces of leather and fabric, and in all those applications that require the ordered or fitted arrangement of a countless series of figures. The profiles, both external containment profiles and the pieces to be nested, can be of any shape.

Mosaix provides the user with a series of tools that makes it possible to execute the placement of profiles by simply selecting the area.

The fields of application are lasers, wire EDM, water-jet, flame cutting, plasma, 2D milling, and engraving.

Given the versatility of the software, it is possible to run a swarfs recovery simply by designing the piece to be recovered and assigning it as an external area.

FUNCTIONS

Functions are available depending on which the setting is executed by external area or by individual pieces. For the external filling area, the user can define the selection of the nesting starting point, development of the calculation, whether horizontal or vertical, and whether this area includes other internal areas involved to be excluded from the calculation (for example, operations already executed or imperfections in the material to be excluded). For profiles on the other hand, a series of parameters may be defined, such as the minimum and maximum number of pieces, the insertion priority of each individual unit, and whether mirror pieces are desired.

Before running the nesting calculation, Mosaix requests the minimum distance between pieces, the distance of the internal figures from the edge, the primary and secondary angular values permissible for rotation of the figure during the calculation, on which layer the result of the calculation should be arranged, and whether the user wants the calculated profile of the remaining area that can be reused for other pieces.

When the data is entered, the software processes the position of the pieces, optimizing the areas.

In the event that the quantity of pieces to be arranged is greater than the containment capacity of the filling area, a warning window will appear.

Before concluding, the nesting report is shown, providing the information about the total number of input pieces, those requested, those entered, and those not entered, and on the panels detail - that is, the total area and the swarf area - and the pieces detail - that is, the perimeter and area for each. The report can be printed. As a final result of the nesting operation, the user will obtain the arrangement of the pieces in the given outline.

CAM

At this point, with a CAM available, it is possible to automatically execute the appropriate operation, applying to each profile the data referred to the operation.

