

## **Procedures to import points of a 3D model from AutoCAD to Flex per points of CALDsoft7:**

1- Inside the importer of CALDsoft7, the user must choose between transition (two plans) and intersection (four plans).

2- With the project developed on CAD in 3D, the user must divide the outlines in an equivalent quantity of points;

2.1- It would be interesting to create a line and use it as a base in the capture of points;

3- After having executed this division, the user must load, on CAD the routine "apload" and after that in the opened window select the file called "getpoints.lsp" inside the folder of CALDsoft7 and click in Load;

4- Close the window and verify, in the line of command, the message that the file was loaded. Type again in the line of command of CAD "getpoints". After that, it will appear an orientation to select the point;

5- Select the points of the first plan obeying to a sense (clockwise or anti-clockwise). After selecting all the points of the first plan verify, in the line of command of CAD, the orientation: must type "N" to go to the next plan.

6- Select the points of the second plan, from the same position in which was began the first plan, following the same sense;

7- The plans must posses the same quantity of points. After concluding the capture in the second plan, observe in the line of command, the orientation must appear: Type "Q" to conclude...

8- After typing "Q" and "Enter", the points will be recorded in temporary folder, in the CALDsoft7 folder;

9- Back in the screen of the importer of points, click in Import from CAD. The two tables must be fulfilled automatically. By clicking in visualize, it is possible to verify if the 3D is correct and if there is any point out of the wanted position;

10- Clicking on the disk in the window of the importer, it is possible to save, in a document of text, the coordinates of the points imported to use them later;

11- While clicking in calculate, just select the width wanted to the part.

**Observation:** To use the Flex per 3D points the outline for importation must always be the medium line of the part.