

AXYZ ToolPath—File Prep Process

1. Start by clicking on File to open the File Open dialog box.
 - a) Select file location (drive & path).
 - b) Select file format. The preferred import type is AutoCAD DXF R12.
If opening an existing AXYZ file, choose RDY, the proprietary ready file.
 - c) Select Open to accept and open file.
2. Click on Analysis, click on “Direction Errors” and click on OK to accept.
This process “corrects” nested internal geometry to default of alternating CW and CCW cutter paths. The directional path can be individually reversed later.
3. Click on Layout and move origin to upper right hand corner (Safety issue).
If the drawing is set up properly, click on the “CAD origin” & then OK buttons.
4. If no groups, skip to Step #6.
5. To group job (i.e., multiple tools and/or depths):
 - a) Click on Groups.
 - b) Click on Move to Group.
 - c) Choose shapes/curves to be moved to a different group
 - d) Click on To Group and choose the desired group. (Note: Groups are differentiated by color; group colors are independent of direction of cut).
 - e) Repeat grouping steps as required.
 - f) When finished assigning groups, click on Main Menu to exit.
6. To remove large internal areas:
 - a) Click on Special, then “Engrave 2D.”
 - b) Choose closed shapes/curves and press
 - c) Select bit radius, fill type, & Apply to (typically, a particular group).
 - d) ToolPath will develop cutter centerline path, check for completeness and desired behavior.
 - e) Click on the Enter (top of menu bar) to accept, otherwise, click on Undo.
 - f) Repeat 2D engraving steps as required.
7. To optimize the sequence (order) of shapes as they are cut:
 - a) Click on Edit then Sequence.
 - b) Choose shapes in the order you wish them to be cut.
 - c) Click on “Forward” cutting direction.
8. To optimize the start point of shapes to be cut:
 - a) Click on Edit then Start.
 - b) Choose starting point by clicking each shape at the desired starting point.
9. From the Main Menu, click on Output
10. Complete each color group (compensation, cutting direction, depth, tool, feeds & speeds, multipass, curl on/off, etc.)
11. Rename Job Name as desired (8 characters max) and click on Save Ready file.
12. To confirm the order and starting points of the shapes, press N &/or P keys for next &/or previous shapes. Edit as required (Steps #7 & 8). Re-sequence by groups if desired (Edit, Sequence, Advanced, By Groups, OK, Main Menu, Output, Save.)
13. Click on Send.
14. Check developed paths: WYSIWYG (What you see is what you’ll get).
15. Click on Transmit to send to AXYZ controller.