

Short Instruction to Convert DXF Files to MTasc Format

1. Open DXF file with “Open” from file menu.

2. Group objects (lines, arcs and circles):

- **Create connected contours:**
 - Click "Connect", then click a piece of the contour to be connected.
 - Then group connected contour as described below.
- **Change starting point** of a closed contour:
 - Click "Connect", then select the piece of the contour to start with.
- **Change orientation:**
 - Single object: Click "Revert", then click object where you want to change orientation.
 - Connected contour: Click "Revert", then click one object, then click "Connect", then click the same object again.
- **Group objects** (of same process type):
 - Click "Select", then click the objects to be grouped. Objects will be grouped with “Append” in the order of selection.
 - Alternatively or additional: Click "Select", then click one of the folder symbols for Type or Tool. Objects will be grouped in the current order.
 - Alternatively or additional: Click "SelBox", then select the objects by drawing a box with the mouse. Objects will be grouped in the current order.
 - Group the selected objects by clicking "Append".
 - Rename layer "DxfAppend" as something else.
- **Change Order** of objects:
 - The only way to change the order of objects is by selecting them an appending them at the end of the file.

3. Setup of process types

- **Automatic** setup:
 - If you choose the appropriate layer number within CAD then the converter will choose the process type by layer number: 1=drawing, 5=drilling, 6 to 8 = milling. 6=with cutter radius compensation right, 8=left, 7=without compensation .
- **Manual** setup:
 - Click the layer to show the types, then double click "Type" and choose the process type from the context menu. A tool will be chosen automatically. The tool may be changed later (see below).
 - When milling with cutter radius compensation be sure to select the compensation with regard to the milling direction.
- To **highlight** the objects corresponding to a type, click “Select” from toolbar and then click the folder symbol of the type. The objects will be selected an shown in yellow color. Already selected objects will be deselected.

4. Tool Setup

- **Automatic** setup:
 - Automatic tool setup takes place when process type is set up. The tool is selected by tool type in the tools table. The selection can be changed manually.
 - For drilling holes only tools with correct radius are selected. If there is no match, a negative tool number will be displayed.
- **Manually** setup:
 - Click the layer to show the types, then click the type to show the tools. Double click the tool to be changed and select a tool from the context menu.
 - For drilling holes the tool radius will not be checked.
- To **highlight** the objects corresponding to a tool, click “Select” from toolbar and then click the folder symbol of the type. The objects will be selected and shown in yellow color. Already selected objects will be deselected.

5. Conversion and Output to File

Click the “MTtasc” button on the right of the graphic pane. You will be prompted for the name of the converted file.