

Fusion 360 CAM/Manufacture Procedures

Cheat Sheet

1st Pick inches!!!!!!! Pick Inches!!!!!!!!!!!!!! Pick Inches!!!!!!!!!!!!!!!!!!!!!!

Setup

- 1) Choose: Cutting
- 2) Choose: Model orientation
- 3) Choose: Stock Box Point
- 4) Click: Box Point (Pick a point on the sketch. This point is where the table will zero too when you start the cut.)
- 5) Choose: Sketch

STOCK

- 1) Choose: Relative Size Box
- 2) Stock Offset (adds material to sketch) Choose Add Stock To Sides Top Bottom. Then enter the offset in Stock Side Offset (about 1/8th inch) Stock top and stock bottom set to 0.

Post Process

- 1) Name Project (if you want)
- 2) Hit OK

Tool Path (Is located under Fabrication)

- 1) Choose: Cutting
- 2) Choose: 2D Profile

Under Tool

- 3) Pick your plasma cutter from the Local Tool Library
- 4) Set Cutting Mode to Through-auto
- 5) Set Feed, Lead-in, and Lead-out rate

Under Geometry

- 1) Contour selection: pick all lines to be cut on the table, pick outside lines first
- 2) Choose: All loops
- 3) Choose: Start outside
- 4) Pick Tabs if you want any tabs to hold pieces together

Under Heights

- 1) Set all to 0 (there is no height control on the crossfire)

Under Passes

- 1) Tolerance- the tighter they are the bigger the file size
- 2) Always Compensate: Left
- 3) Compensation Type: In Computer
- 4) Click: preserve order if you want lines cut out in the same order you picked them under contour selection
- 5) Stock to leave: unchecked unless you want some material left to grind away
- 6) Smoothing: not sure about this

Under Linking

- 1) Click keep Nozzle Down
- 2) Max stay down distance 24" (table size)
- 3) Cut stock clearance: .1"
- 4) No Force Retract
- 5) Stay down feed rate: 300 inches per minute
- 6) Click Lead in (if you want them)
- 7) Lead-in radius: .06
- 8) Lead- in Sweep Angle: 90 degrees
- 9) Lead-in distance: minimal
- 10) Lead-out: not necessary
- 11) Pierce clearance: .06"
- 12) Entry position: pick where in the sketch you want the cut to start
- 13) Hit OK

At this point you can run a simulation (if you want to)

Finally click the G1/G2 box at the top to post process into gcode.

The only thing you need to check/change before posting is the Pierce Delay

