

OVERALL STRUCTURE

NAVBAR:

- Contains HOME and FUNCTIONS buttons
- Note: Among FUNCTIONS' screens, only need to work on FUNCTION-A screen for now.

WORKSPACE:

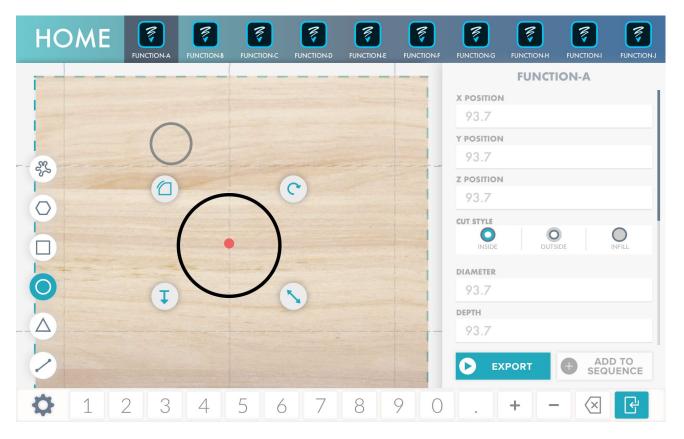
- User moves/adjusts shapes here
- It has an invisible grid (so shape movement/adjustment should follow grid resolution).
- User can zoom in/out

SIDEBAR:

User can input/view details here

KEYBOARD:

For user to input numbers



When Function-A screen first opened

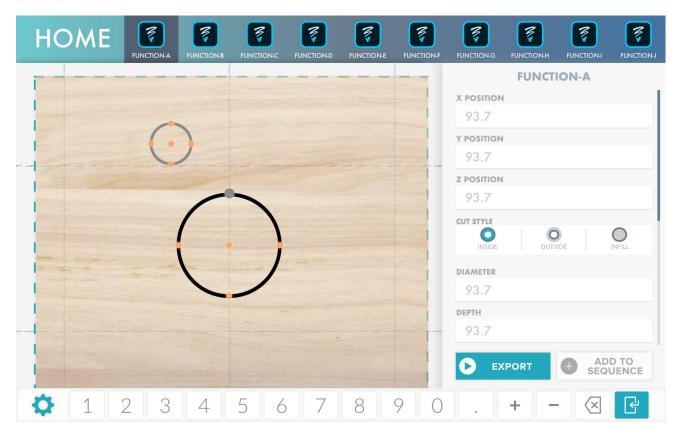
Operation shape shown (let's call it CURRENT_SHAPE) should be a duplicate/copy of the last Operation shape that was created by User on any Function screen in the app.

CURRENT_SHAPE's parameters' values are shown in sidebar.

CURRENT_SHAPE can be adjusted using the four adjustment buttons around it.

In case User wants to replace the CURRENT_SHAPE with another, then...

- --OPTION 1) User can press Settings button and select a different type of shape (here, a Circle).
- --OPTION 2) If user press-holds another existing shape's outline seen on screen...
 - Then a duplicate of that other shape becomes CURRENT_SHAPE (i.e., all the parameters' values get imported to the new one)

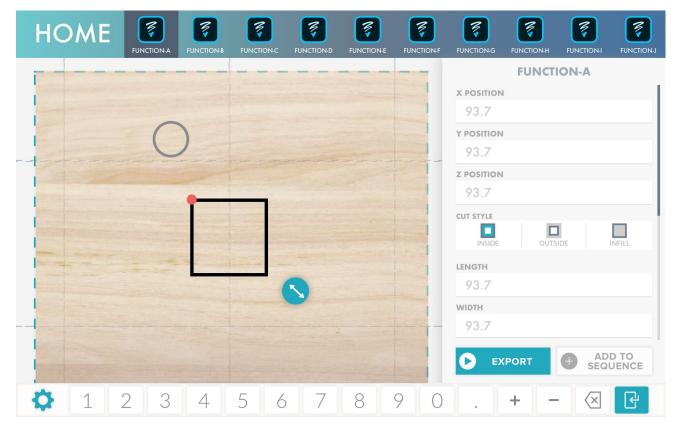


At any time, User can drag the outline of CURRENT_SHAPE to move it anywhere.

To move-snap to another shape:

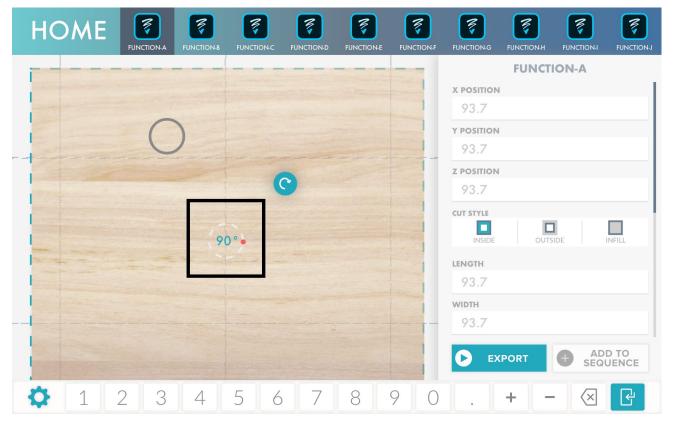
- User double-presses some place on CURRENT_SHAPE's outline.
- Then the nearby key-point of CURRENT_SHAPE gets highlighted in Grey.
- Also, key-points of all other shapes are shown in Orange.
- When User presses another shape's key-point, then CURRENT_SHAPE selected key-point is moved to the other shape's selected key-point (so CURRENT_SHAPE is moved).





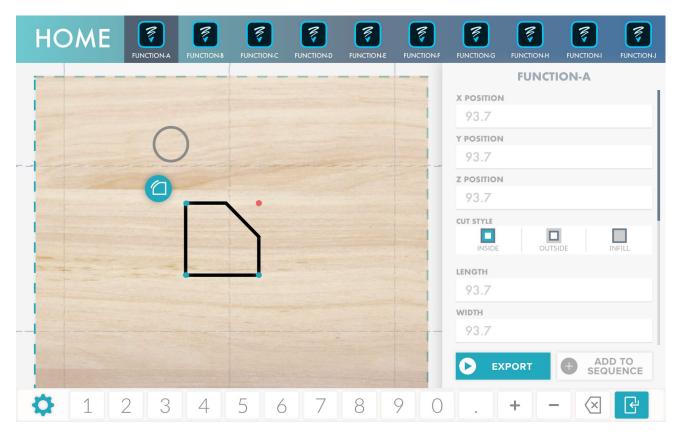
To resize CURRENT_SHAPE:

User holds the RESIZE button and pulls in any direction.



To rotate CURRENT_SHAPE:

User holds the ROTATION button and drags to any angle around the shape.



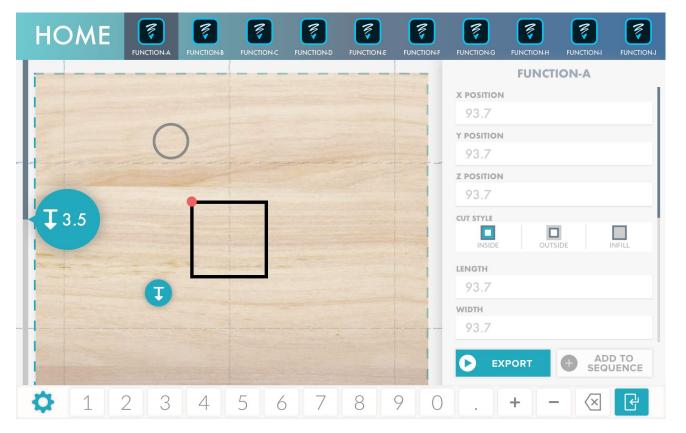
To create a chamfered/rounded-corner on CURRENT_SHAPE:

On specific points:

- User presses the CORNER button
- User presses one or more points, and then does the usual adjustment.

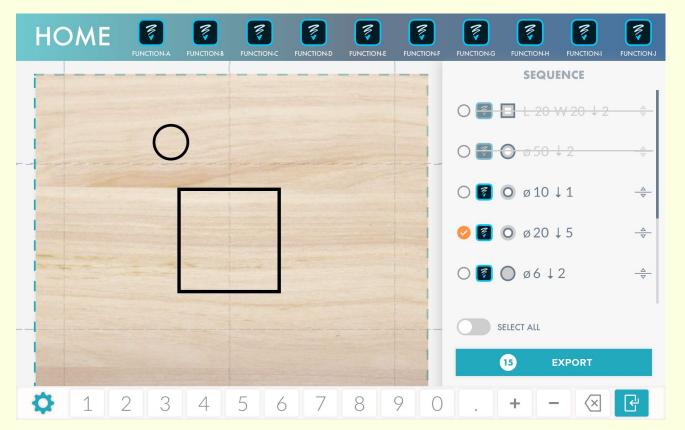
For all points together:

User holds the CORNER button and pulls either inward (for chamfer) or outward (for rounded corner) from the shape.



To change Depth parameter (only numeric value, no shape change) of CURRENT_SHAPE:

- User presses the DEPTH button
- Workspace shows vertical slider on left, which User can adjust



Sidebar: Sequence shows collection of all Operations created by user (When user presses "Export" or "Add to Sequence" buttons in FUNCTION-A screen's sidebar).

NEXT: If user does a press-hold at any point on the Workspace in HOME screen, then...



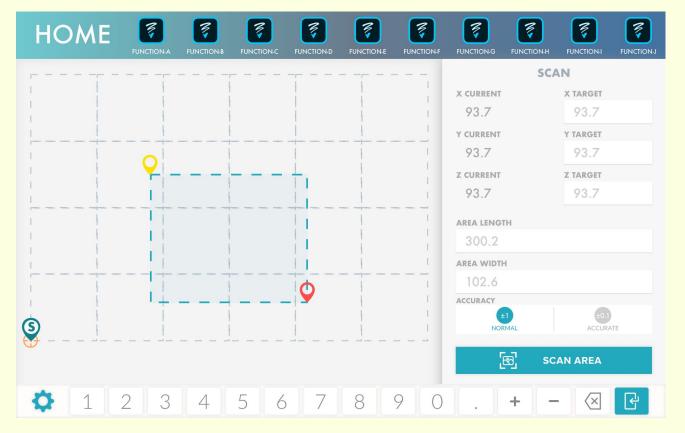
Then Workspace shows red marker where User did a press-hold.

Sidebar shows coordinates of that point.

NEXT-A: If user releases the hold now, then User has **chosen one point**. User can then press SCAN POINT button.

Or

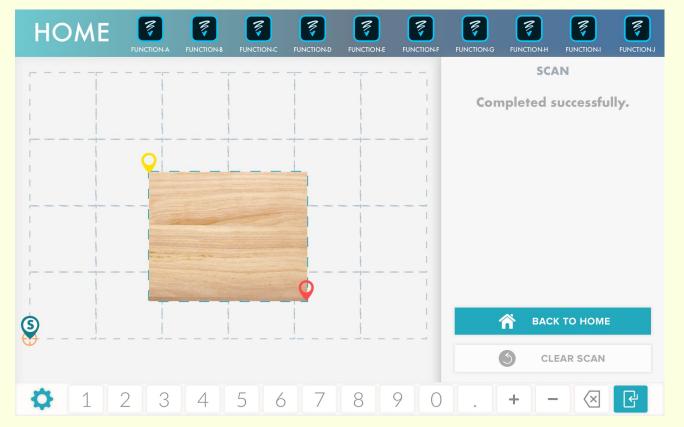
NEXT-B: If user had continued the hold by dragging to another point, then User has **chosen two points**. [see next page]



If User has chosen two points (Yellow and Red markers), then Workspace shows a dashed box between the user's chosen points.

Sidebar shows values for that box, and button name is updated to SCAN AREA.

NEXT: If user presses SCAN AREA button, then...



...Then Workspace shows an image inside the box.

Sidebar says "Completed successfully".