

Main Interface Layout

User interface.

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Project Panel (Left Sidebar)

The left panel contains project-wide settings and general actions.

Sections:

- **Project Name:** Name your current project.
- **Dimensions:** Define width, length, and height of the box.
 - Units can be switched between **cm** and **inches**.
- **Material Thickness:** Set your material's thickness (e.g., 3mm plywood or acrylic).
- **Outer Sizing:**
 - ☒ Checked → Dimensions include material thickness.
 - ☐ Unchecked → Dimensions refer to inner cavity size. The overall size is bigger.

Read more on outer sizing in the respective tool manuals.

- **Enabled Sides:** Choose which sides (Front, Back, Top, Bottom, Left, Right) are visible and editable.
- **Update Sides** : Regenerates the box with selected sides.

Load / Export:

-  **Load:** Load an existing `.json` project.
-  **Export:** Save your design as a `.json` file.

Canvas Area (Center)

The main workspace where you can visually edit your design.

- **2D View:** Edit shapes, holes, and cutouts directly on a selected side.
- **3D View:** Rotate and inspect the overall box using the mouse.

Mouse Controls:

- **Left click:** Select or move a component.
- **Scroll wheel:** Zoom in/out.
- **Middle mouse click and hold:** Pan view (2D), Move camera position (3D).
- **Right click + drag (3D only):** Orbit around the box.

Keyboard Shortcuts:

Action	Shortcut
Open Existing JSON	Ctrl + O
Export JSON to Your Computer	Ctrl + S
Undo / Redo	Ctrl + Z / Ctrl + Shift + Z or Ctrl + Y
Add Rectangle	Shift + R
Add Circle	Shift + C
Duplicate Selected Component	Ctrl + D
Rotate Selected Component	R
Move Selected Component	Arrow Keys
Delete Selected Component	Delete
Toggle 2D / 3D View	T
Open Help	F1

Component Editor (Right Sidebar)

This panel updates when you select a component.

You can adjust:

- **Type:** Rectangle or Circle
- **Text:** Shown above the component, and rotates with it
- **Text Size:** Size of the text in points (pt)
- **Position:** X / Y coordinates
- **Size:** Width, Height, Diameter
- **Rotation:** In degrees clockwise (e.g., 0°, 18°, 45°, 90°)
- **Function:**
 - Drill Diameter (For Rounded Components): The diameter to create a cut.
 - Drill Width/Length (For Rectangular Components): The drill dimensions to create a cut.
 - Visible Diameter/Visible Width/Visual Length: The dimensions of a *recess area* or *engraved region*, and also determine the spacing between the component and its label text.

If a **Visible Diameter** value is entered, it takes precedence and the other two values will be ignored.

Both Rounded and Rectangular components can include *drill* or *visible (recess)* parameters.

You can also **delete** or **duplicate** components from this panel.

Help & Info Modals

The built-in **Help Modal** explains:

- Keyboard shortcuts
- File export details
- Tool usage tips

Access it via the  **Help** button.