

CAD

How to use OnShape, etc.

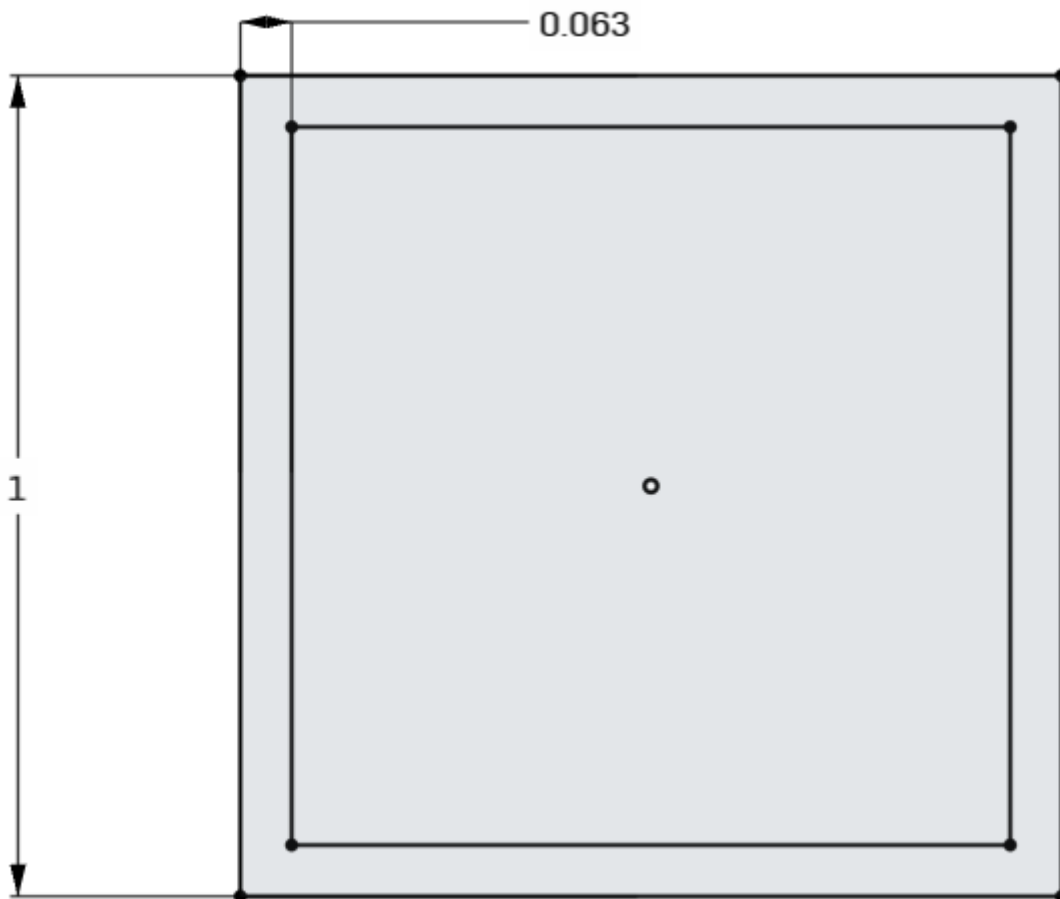
- [Making Configurable Parts](#)

Making Configurable Parts

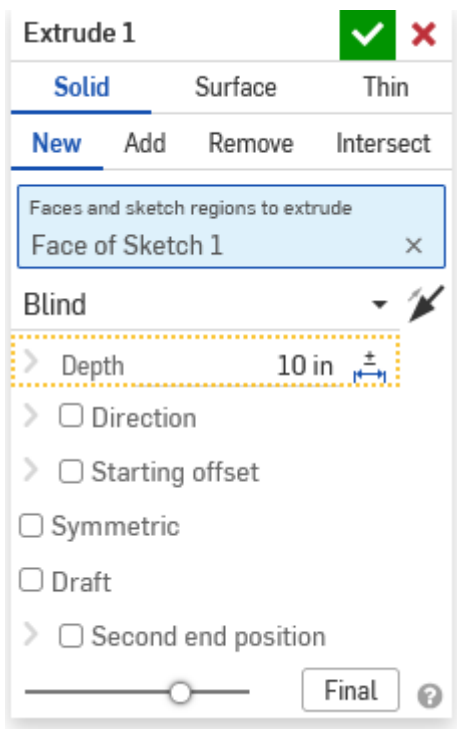
Want to have multiple different lengths of the same extrusion? Want to be able to change bearing sizes? Shaft lengths? Bracket thickness? Don't make multiple copies of the same part, make them configurable instead!

Example: STORM Extrusion

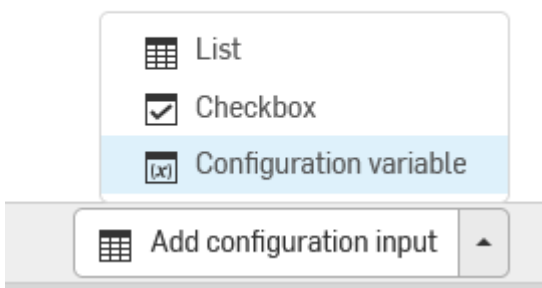
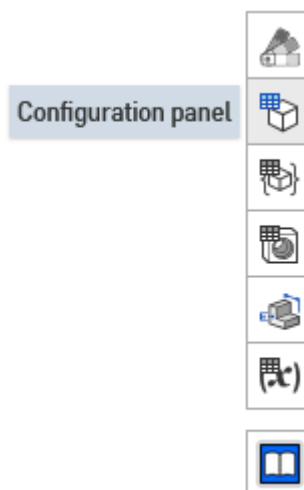
1. The configurable property we care about here is **length**, so first, make the sketch for the extrusion as usual.



2. Then, extrude the part to whatever you want the **default length** to be. In this case, it is 10 inches, a reasonable default for STORM's 18 inch size limit.



3. Next, open the "**configuration panel**".



Variable input ✓ ✗

Name

Length

Angle

Integer

Real

Text

Default

Minimum

Maximum

Extrude 1 ✓ ✗

Solid

Surface

Thin

New

Add

Remove

Intersect

Faces and sketch regions to extrude

Face of Sketch 1 ✕

Face of Sketch 1 ✕

Face of Sketch 1 ✕

Blind ⌵ ↗

> Depth ±

> ☐ Direction

> ☐ Starting offset

☐ Symmetric

☐ Draft

> ☐ Second end position

Final ?

☐ List

☑ Checkbox

☒ Configuration variable

☐ Add configuration input

⬆

