Final Design Day Pitch

Flush Bolt Face Plate Jig

Right Hand Routers

Introduction

We are the Right Hand Routers, inventors of the Corner Hold to help AMBICO speed up and increase accuracy on their flush bolt installation on their doors

This project was done over the course of our second semester, in our GNG1103, Engineering Design class

Problem

Our Semester Goal

AMBICO required a easy to use, adjustable and durable jig to mark and router the hole to install their flushbolt faceplates on their doors.

Their current solution was hard to use, time consuming and inaccurate

AMBICO
SPECIALIZED DOORS · FRAMES · WINDOWS

Problem

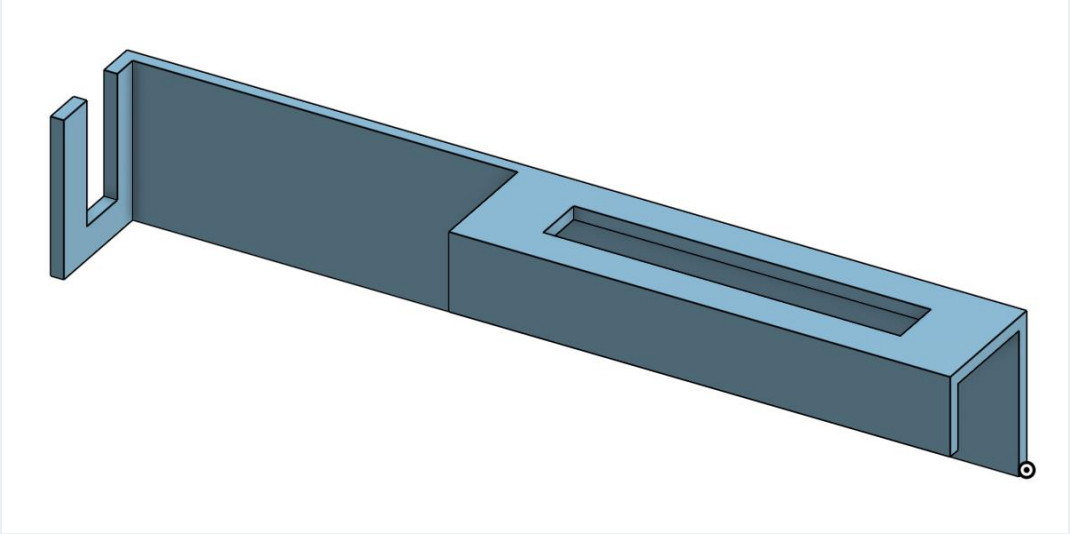
Needs

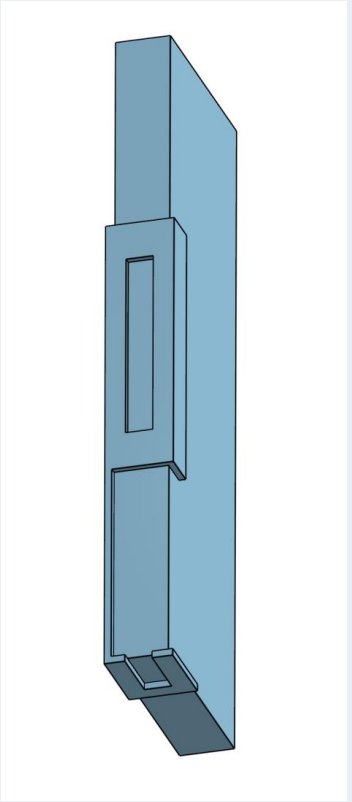
- Durable
- Adjustable
- Accurate
- Easy to use
- Damage free

Constraints

- Cost
- Adjustability
- Accuracy
- Weight

Design





Solution

Corner Hold

An easy-to-use metal jig that sits securely on the corner of the door, allowing slots for both the punch and the faceplate holes to be routered

Features

Durable structure

Being made out of sheet metal allows our design to be durable, reusable, and easy to remake in case of breakage.

Cost effective

Because our design is only 1 part and sheet metal, it is inexpensive to source and produce. AMBICO has their own sheet metal supplier and so it can be made directly at their warehouse

Accurate

Our jig stays put directly on the door, allowing for the router to cut while it is still in place, allowing for the maximum accuracy possible.

Easy to use & store

The jig has a handle for storage and use, making it ergonomic, and without moving parts, it is super intuitive to learn and use.

Thanks!

Are there any questions?