# 3D Printing Summary

|  |  |  |
| --- | --- | --- |
| **Metrics** | **HandRaiser with 15mm Snap Hanger** | **HandRaiser with 20mm Snap Hanger** |
| Total Print Time (min) | 69 | 69 |
| Total Number of Components | 3 | 3 |
| Typical Total Mass (g) | 10 | 10 |
| Typical Number of Print Setups | 2 | 2 |

# 3D Printing Settings

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Print File Name** | **Qty** | **Total Print Time (hr:min)** | **Mass (g)** | **Infill (%)** | **Support (Y/N)** | **Layer Height/ Nozzle Diameter(mm)** | **Notes (orientation, special settings, etc)** |
| Snap\_Back.stl | 1 | 0:12 | 3 | 20 | N | 0.2/0.4 | Print in orientation given in STL |
| Snap\_Hanger.stl (10mm) | 1 | 0:17 | 3 | 20 | N | 0.2/0.4 | Print in orientation given in STL |
| Snap\_Hanger\_15mm.stl | 1 | 0:21 | 3 | 20 | N | 0.2/0.4 | Print in orientation given in STL |
| Snap\_Hanger\_20mm.stl | 1 | 0:21 | 3 | 20 | N | 0.2/0.4 | Print in orientation given in STL |
| Faceplate-Blank.stl | 1 | 0:36 | 4 | 20 | N | 0.2/0.4 | Print in orientation given in STL |
| Faceplate-ATMakers.stl | 1 | 0:36 | 4 | 20 | N | 0.2/0.4 | Print in orientation given in STL |
| Faceplate-Hand.stl | 1 | 0:36 | 4 | 20 | N | 0.2/0.4 | Print in orientation given in STL |
| Faceplate-Adafruit.stl | 1 | 0:36 | 4 | 20 | N | 0.2/0.4 | Print in orientation given in STL |

# Post-Processing

The Hand-Raiser is printed without supports; hence no post-processing is required.

# Customization Options

The Hand-Raiser can be printed with different sized hangers depending on which size works best for the user. There are .stl files for a 10mm (1), 15mm (2) and a 20mm hanger (3), but the. f3d file can be modified to accommodate other sized hangers if needed. The hand raiser can also be printed with different designs on the faceplate. The faceplate can be printed with an outline of a hand (4), an adafruit (5), the ATMakers symbol (6) or plain (7) as faintly shown below. Other customizations include printing the device in different colours.

|  |  |  |
| --- | --- | --- |
| 1. 10cm Hanger | A picture containing background pattern  Description automatically generated   1. 15mm Hanger | Background pattern  Description automatically generated   1. 20mm Hanger |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | 1. Hand | 1. Adafruit | 1. ATMakers | 1. Blank |

# Examples of Quality Prints

Below is a picture of what quality is expected from printing the device.

A picture containing indoor

Description automatically generated