

## Customizable feeler gauge

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### Summary

When designing something I often need to get an idea of what a dimension feels like for real and even if I can set it...

[Hobby & Makers](#) > [Tools](#)

Tags: [design](#) [gauge](#) [feelergauges](#) [thickness](#)  
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When designing something I often need to get an idea of what a dimension feels like for real and even if I can set it on the caliper it isn't enough. I designed this in fusion allowing for customization (the files have to be created one by one though), the current set has the values from 0.2mm to 1.0mm with increments of 0.1mm; the values from 1.0mm to 5.0mm with increments of 0.5mm and the values from 5.0mm to 10.0mm with increments of 1mm.

All the parts have their thickness engraved for easier identification apart from the 0.2mm one which was too thin.

A perfect first layer is required to print the thinnest ones and some trials may be necessary to get to the right size.

The parts are kept together by a screw with 2 ends which tightly screw in place. 2 copies of the end are needed.

I included also 2 washers to place between the gauges and the ends but I don't think they are required

## Print instructions

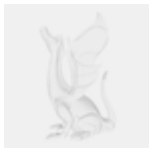
THE SCREW HAS TO BE PRINTED FLAT.

Without too much effort I have been able to get all the parts within +- 0.05mm of precision.

In the files section you can find the single files and 3 assemblies containing more than one part for easier print (named something like 01-to-09.stl).

I suggest using 0.2mm layer height for the first layer.  
For the thinner pieces 0.1mm layer height is required while for the other 0.2mm is enough

## This remix is based on



**Fusion**

## Model files



**02.stl**



**08.stl**



**07.stl**



**03.stl**

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**15.stl**

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**04.stl**

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**05.stl**

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**35.stl**

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**30.stl**

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**50.stl**

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**10.stl**

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**60.stl**

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**09.stl**

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**25.stl**

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**90.stl**

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**20.stl**

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**80.stl**

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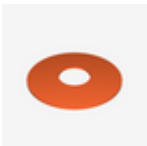
**45.stl**

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**06.stl**

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**washer.stl**

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**10-to-50.stl**

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**40.stl**

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**70.stl**

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**screw.stl**



**100.stl**



**60-to-100.stl**



**02-to-09.stl**



**cap.stl**



**02-to-100.stl**

## **long\_screw\_fully\_threaded.3mf**

☐ A very long screw that you can cut to the desired length in the slicer

[Find source .stl files on Thingiverse.com](#)

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