

Updated OpenSCAD library for HSW attachments



ddded

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updated 27. 12. 2023 | published 27. 12. 2023

Summary

Updated version of "OpenSCAD library for HSW attachments" model



0.33 hrs



1 pcs



0.20 mm



0.40 mm



PLA



3 g



Prusa
MK3/S/S+

[Household](#) > [Other House Equipment](#)

Tags: [wall](#) [openscad](#) [storage](#)

UPDATE 14.12.23

Added supportless=true settings in insertAttachToWallEmpty(), which allows printing the model without supports.

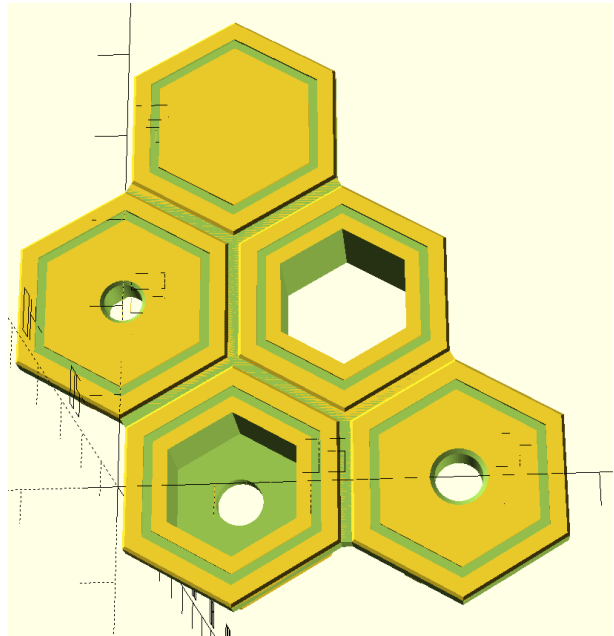
Description

This is updated version of [OpenSCAD library for HSW attachments](#)

- added metric nuts inserts from M2.5 to M10.
- added wall attachment inserts with or without latch, with or without empty fastener.
- hole in wall attachment insert can be moved from center, in case you drill hole not accurate :)

- any insert can be rotated to print horizontally with `makeInsertHorizontal()`
- inserts has decorations. To turn it off set: `insert(decorations=false);`
- updated file fully compatible with old, you can just replace "hex plug library.scad".
- you can use customizer in `custom_insert.scad` to easily generate insert.
- you can generate array of inserts attached to each other with `grid()` and `row()`, see example below.

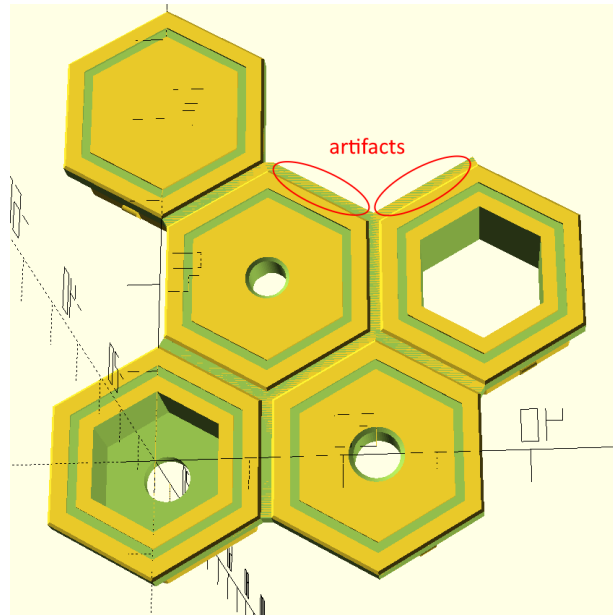
```
grid() {
row() {
```



```
insertAttachToWallEmpty(5);
insertM5();
}
row() {
insertM4();
insertEmpty();
}
row() {
insert();
}
}
```

in case you want other order of inserts use: `changeCellOrder=true`

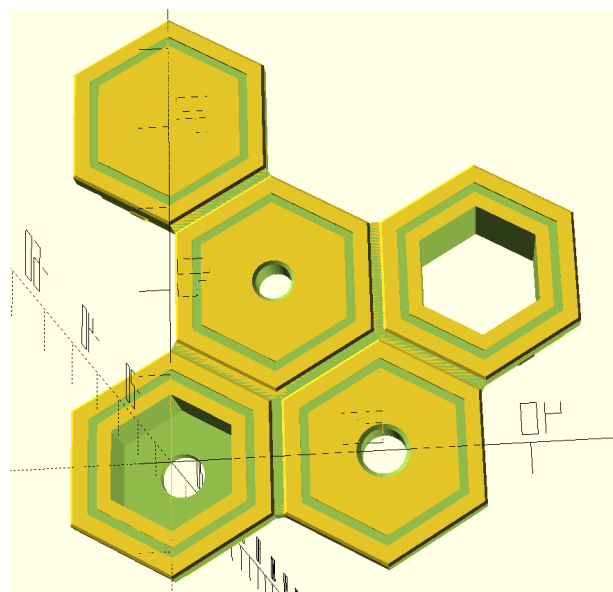
```
grid(changeCellOrder=true) {
row() {
```



```
insertAttachToWallEmpty(5);
insertM5();
}
row() {
insertM4();
insertEmpty();
}
row() {
insert();
}
}
```

If you have some artifacts in inserts edges, try specify array of row lengths:

```
grid(rows=[2,2,1],
changeCellOrder=true) {
row() {
```



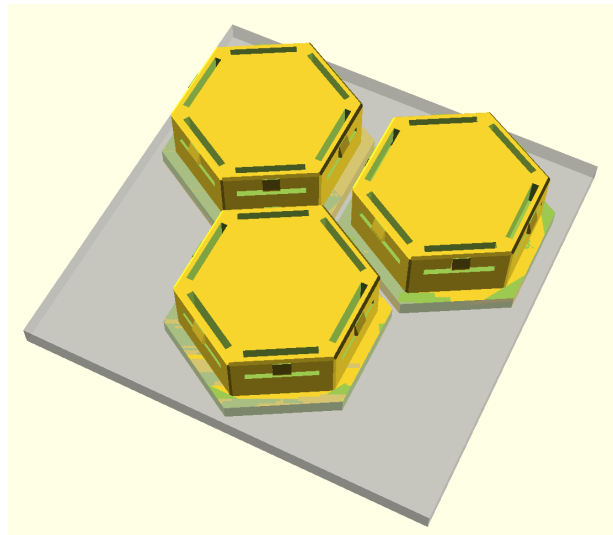
```

insertAttachToWallEmpty(5);
insertM5();
}
row() {
insertM4();
insertEmpty();
}
row() {
insert();
}
}

```

Also, you can remove connections between inserts with `row(connections=false) {}`. It can be useful for creation you own tools.

```
%translate([-15, -13, 0])
```



```

cube([50,50,2.5]);
grid(changeCellOrder=true) {
row(connections=false) {
insert();
insert();
}
row(connections=false) {
insert();
}
}

```

UPDATE 09.09.23

add parameter decorations in `row();` function. When

row(decorations=false) connection between inserts higher, see picture:



UPDATE 03.08.2023: improve compatibility with old file.

UPDATE 08.08.2023: decorations added. Turn on by default.
insert(decorations=false); <- turn off.

UPDATE 11.08.2023: add possibility to make array of inserts connected each other.

UPDATE 12.08.2023: add possibility to make array of not connected hexagons/inserts. Useful for creating you own tools attached to HSW.

UPDATE 18.08.23

- fix: wrong nuts parameters corrected
- fix: add more tolerance for nuts hole
- decorations removed only from front plate
- added custom_insert.scad with customizer for easily generate inserts
- added model and slices files for M3 insert

This remix is based on



OpenSCAD library for HSW attachments


by The Real Gareth Evans





Honeycomb storage wall


by RostaP


Model files


 **OpenScad files** 3 files

 **hex-plug-library.scad**

 **custom_insert.scad**

 **test-pieces.scad**

 **Metric inserts** 1 file

 **insertm3.3mf**



Print files

 **Metric inserts** 1 file

insertm3_04n_02mm_pla_mk3_20m.gcode



PLA 0.40 mm 0.20 mm 0.33 hrs 3 g Prusa MK3/S/S+

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