

# PRINTING AND PREPARING THE V2 VEOG

Go to <http://www.julesworkshop.net/projects.html>

Print the following parts. The parts are scaled for an adult and may need to be rescaled to suit your candidate.) Once the parts are printed, clear the holes as per the following diagrams and file the grippers so they interlace smoothly.

### VEOG V2 Short Parts List

Part No.	Name	Printing STL File	Qty	Est Hours Print Time	Est 1.75mm Filament Metres
VEOG - 001	Main gripper	VEOG - 001 V2.stl	1	4.5	20.8
VEOG - 002	Interlace gripper	VEOG - 002 V2.stl	1	3.75	16.8
VEOG - 003	Gripper Base	VEOG - 003 V2.stl	1	6.25	24.9
VEOG - 004	Wrist base	VEOG - 004 V2.stl	1	7.75	29.7
VEOG-005	Forearm beam front	VEOG - 005 V2.stl	2	5.25	21.5
VEOG - 005 - 001	Locking clip	VEOG - 005 - 001 V2.stl	2	1	3.5
VEOG-006	Left forearm beam rear	VEOG - 006 V2.stl	1	3.3	14.6
VEOG-007	Right forearm beam rear	VEOG - 007 V2.stl	1	3.3	14.6
VEOG-008	Cuff	VEOG - 008 V2.stl	1	10	46.2
VEOG- 008 - 001	Tensioner	VEOG - 008 - 001 V2.stl	2	0.75	3
VEOG-009	Various parts	VEOG - 009 V2.stl	2	2.3	8.9
				<b>48.15</b>	<b>204.5</b>

Other things required which aren't in the parts list.

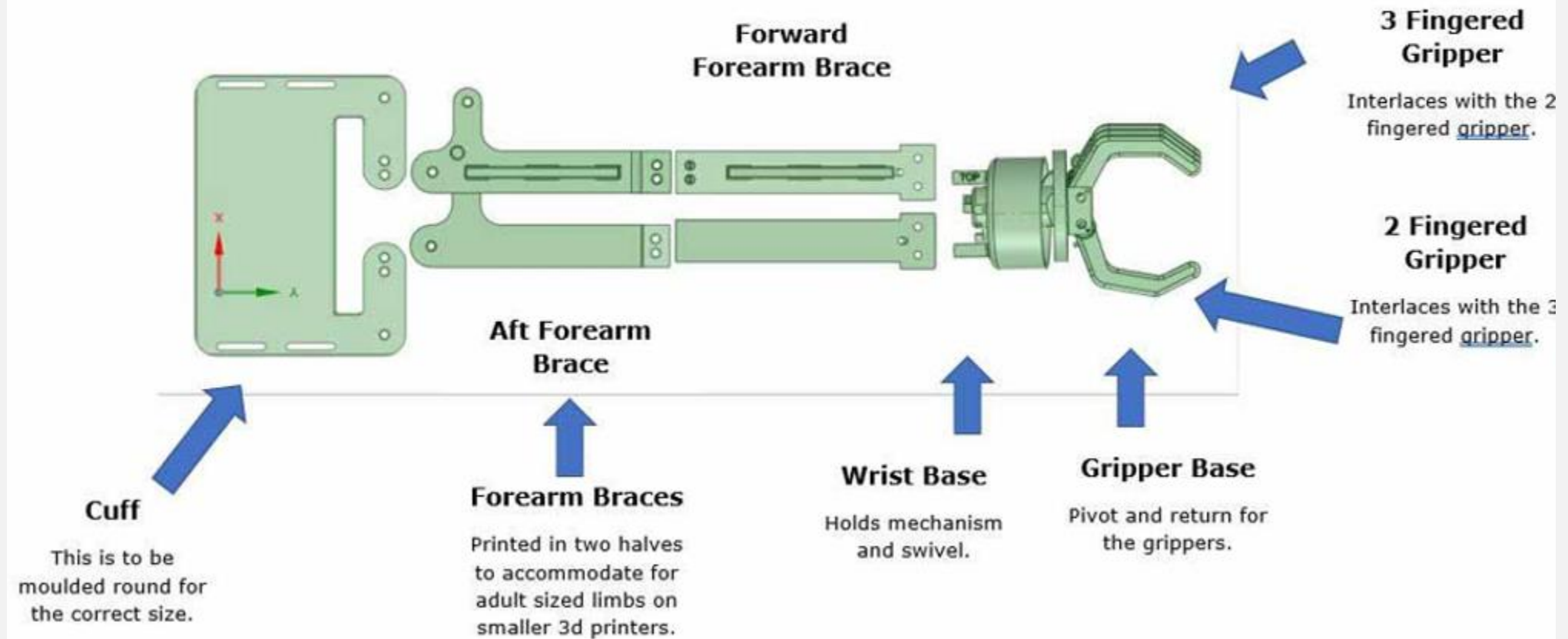
- 2 drops of Loctite for the pivot screws.
- Super glue
- Time
- Patience
- Good sense of humour

HAVE FUN

Refer to the VEOG Parts List for a more detailed description of each item.

# Versatile Elbow Operated Gripper (VEOG)

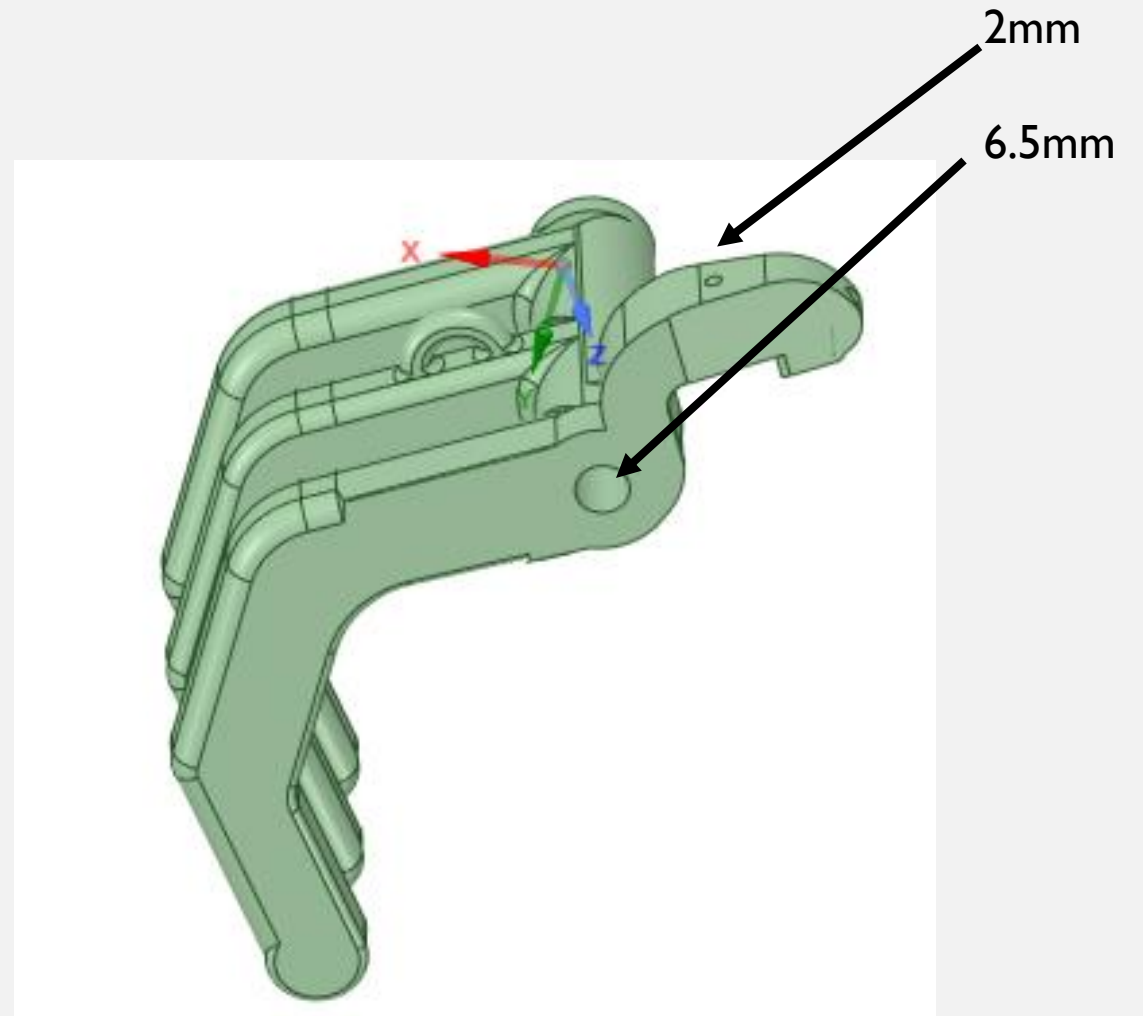
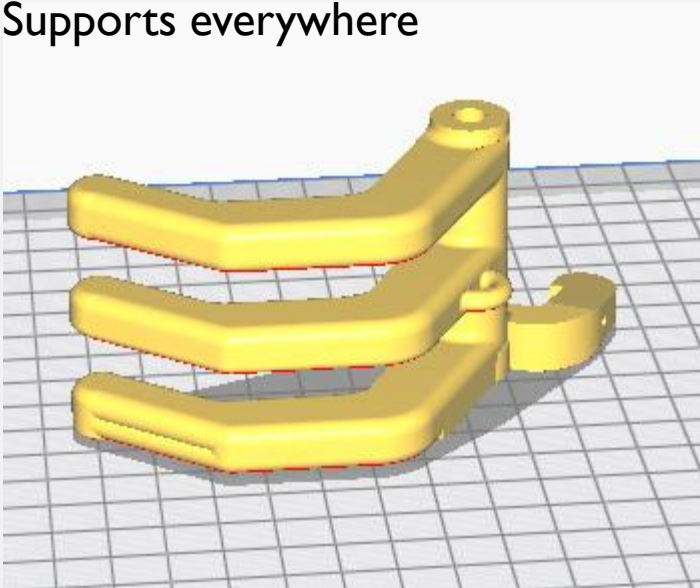
Pronounced: Vee-O-Gee



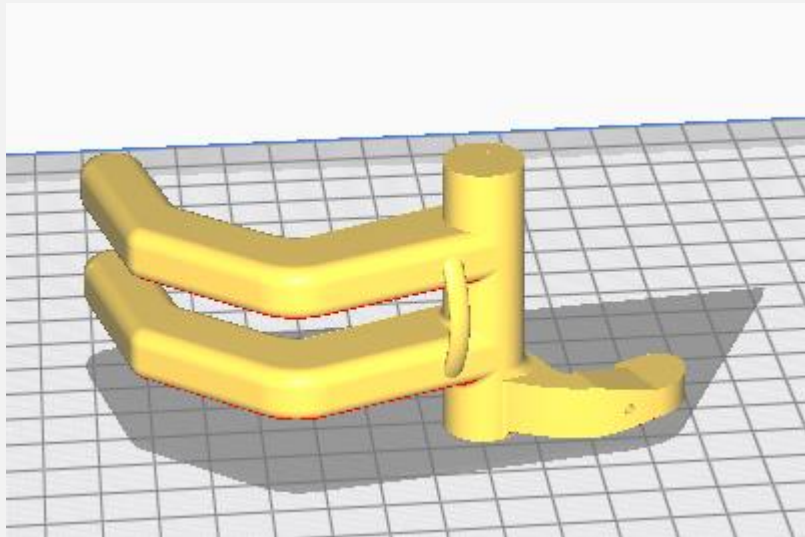
## VEOG 001 Main Gripper

Suggest:

- Print with a raft
- Supports everywhere

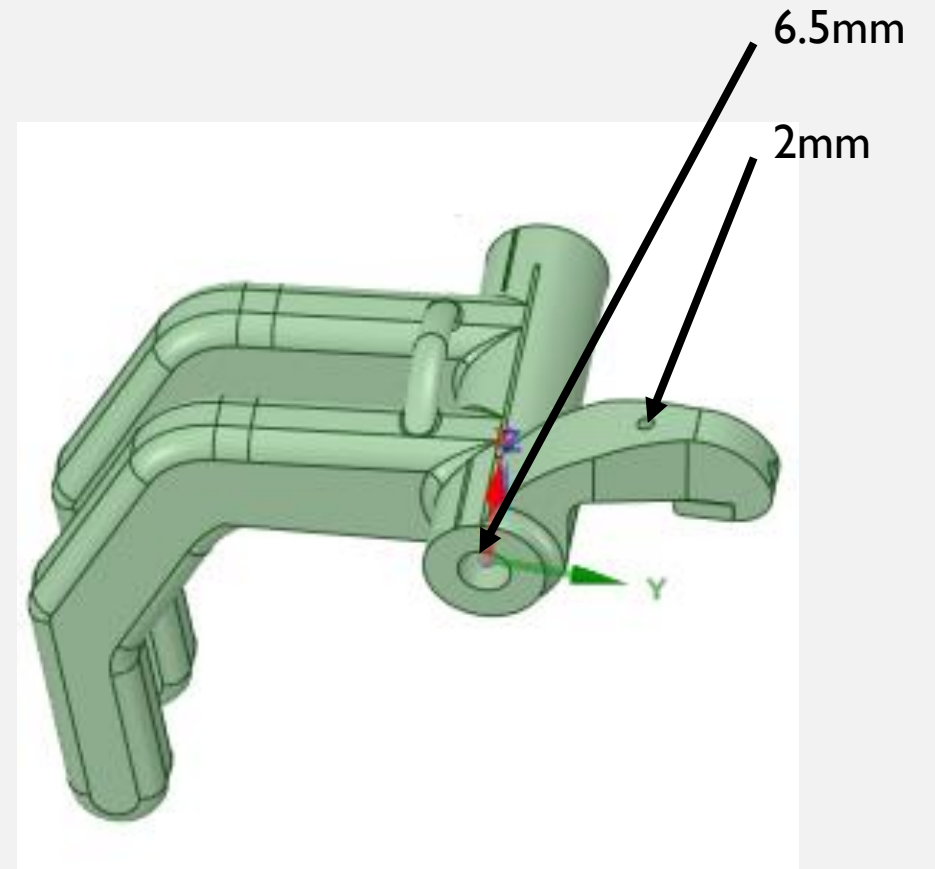


## VEOG 002 Interlace Gripper

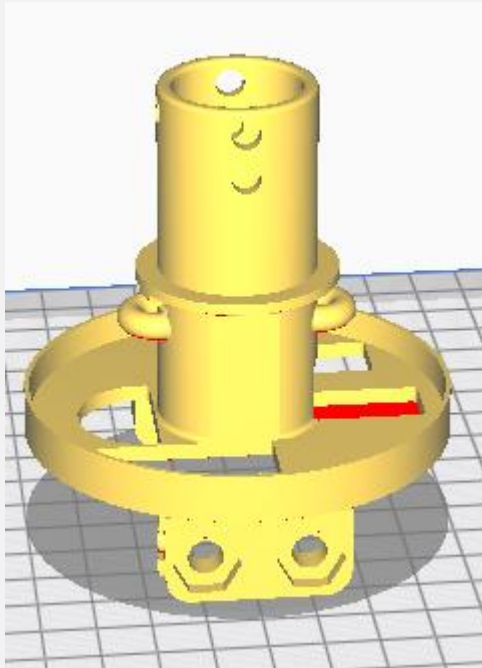


Suggest:

- Print with a raft
- Supports everywhere



## VEOG 003 Gripper Base



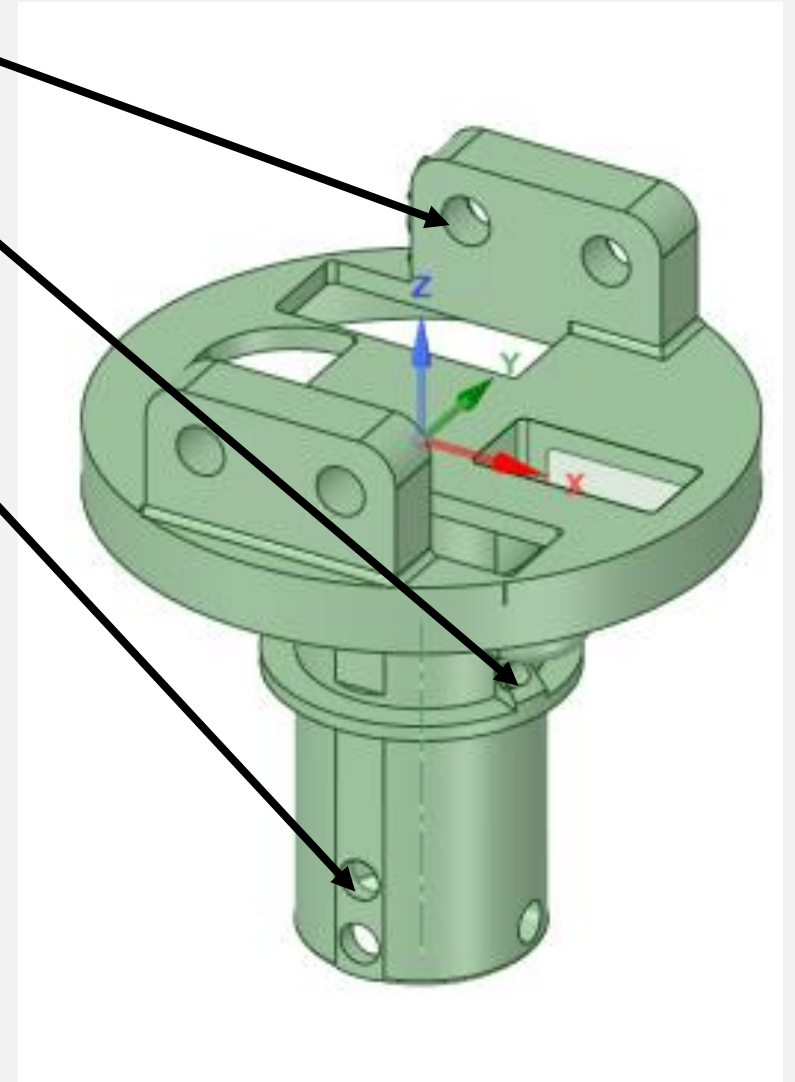
Suggest:

- Print with a raft
- Supports everywhere

6.5mm

2mm

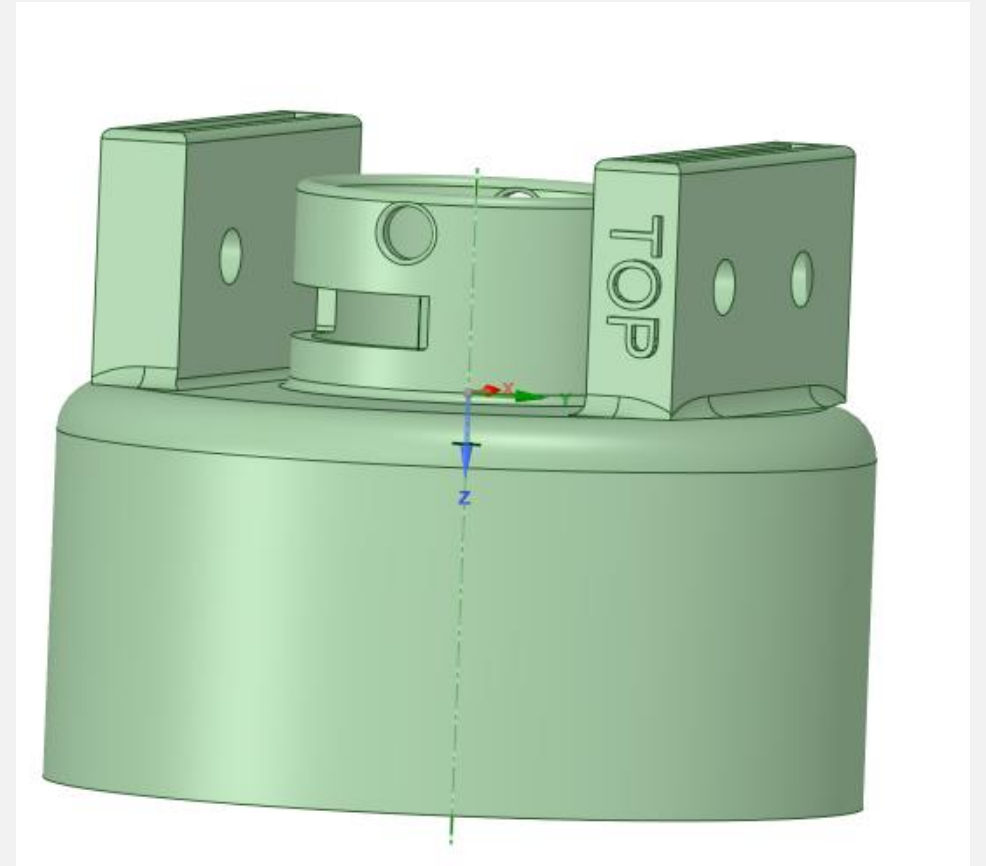
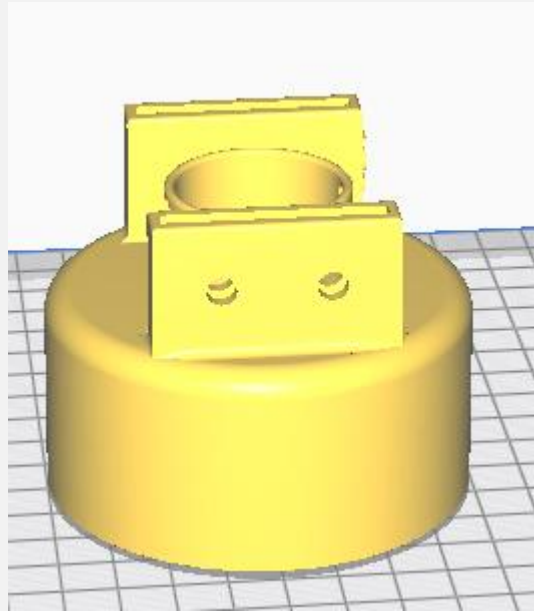
5.5mm



VEOG 004 Wrist Base  
All holes 5.5mm

Suggest:

- Print with a raft
- Supports everywhere

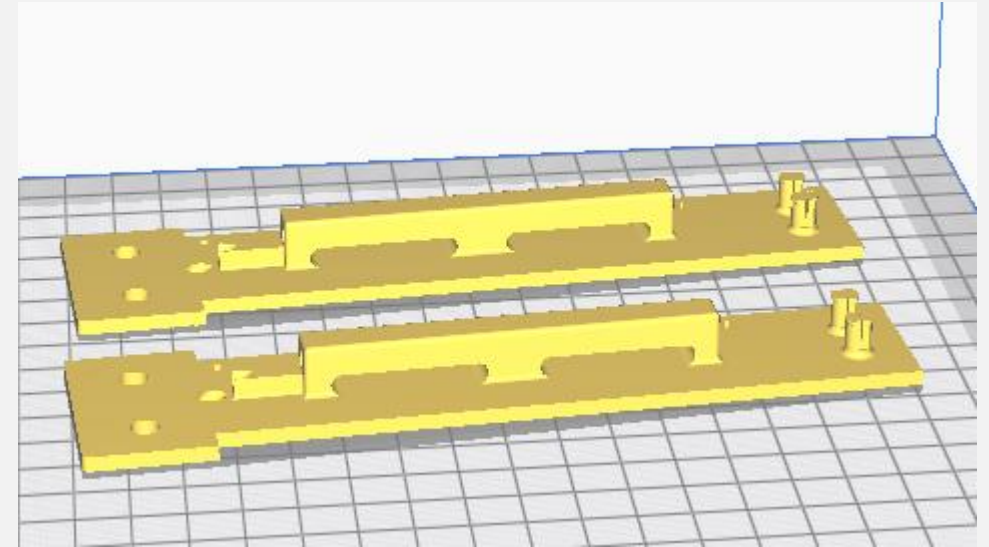


## VEOG – 005

(Two are needed. One each for the left and right side front beams)

Suggest:

- Print with a raft
- Supports where touching the bed

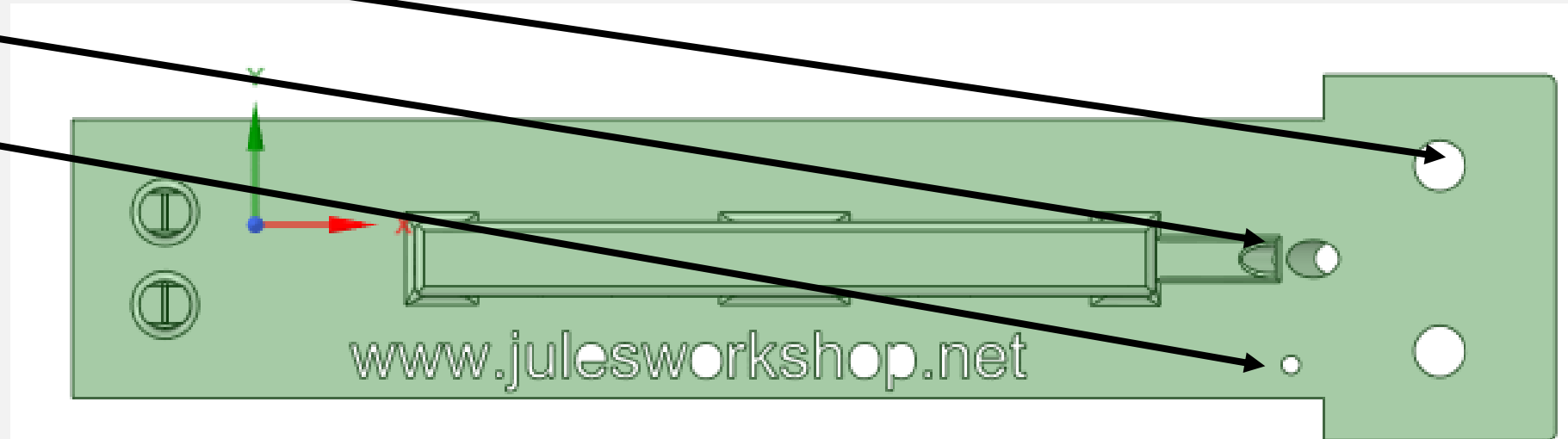


5.5mm

3mm

2mm

Cut up a wire coat hanger and heat the end of the long straight section. Use this heated wire to clean out the 3mm longitudinal holes in the beams.



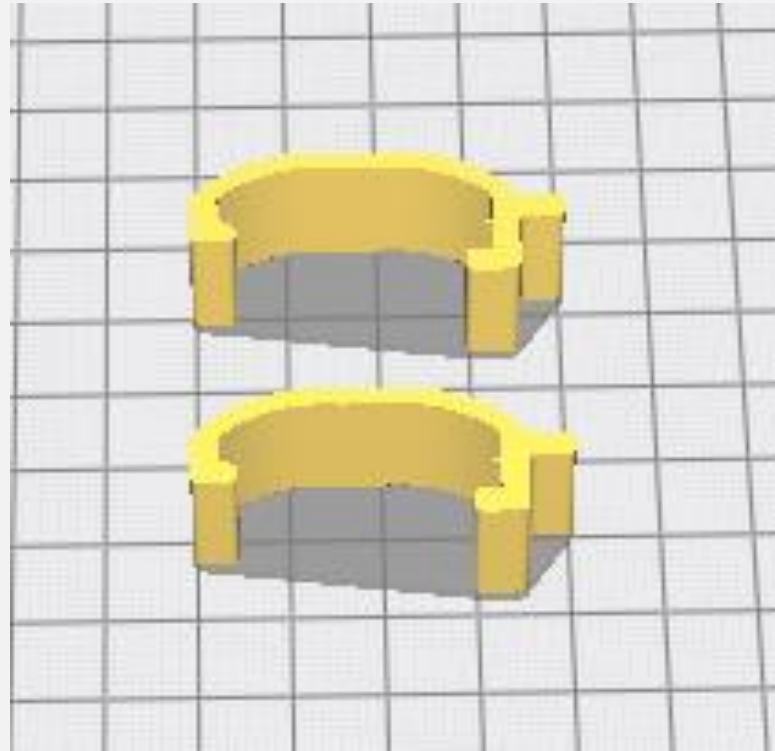


## VEOG – 005 - 001

(Two are needed. One each for the left and right side front beams)

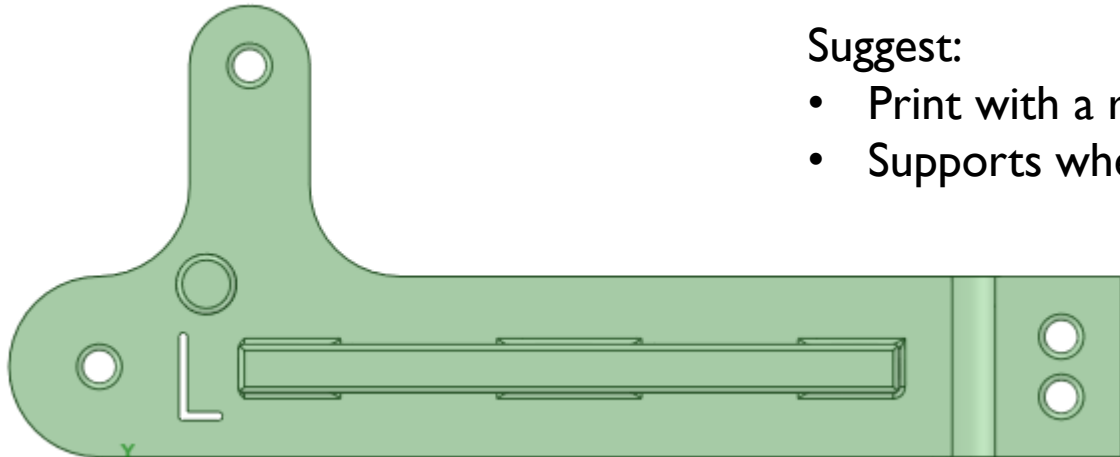
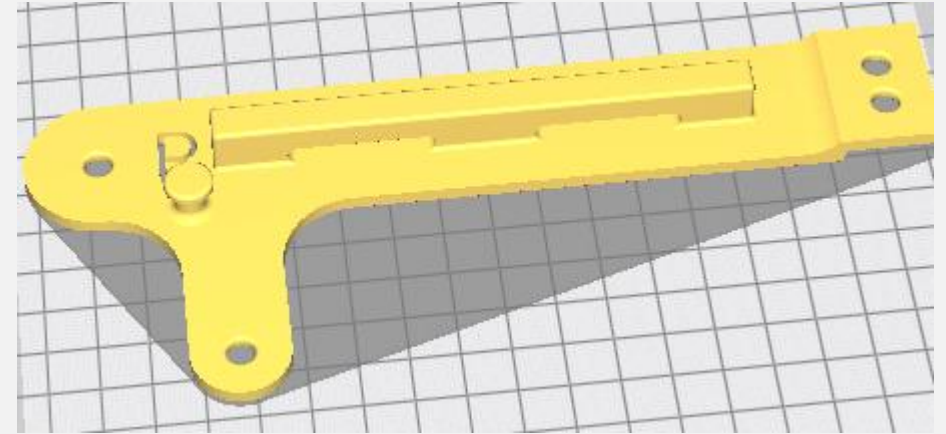
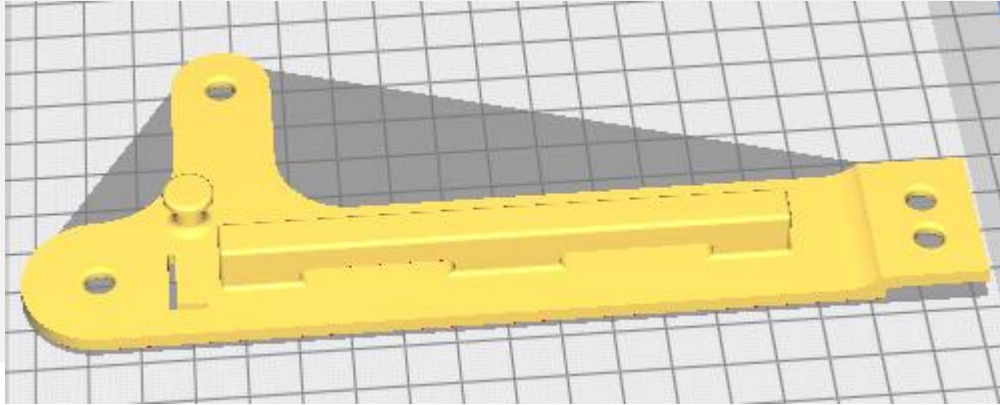
Suggest:

- Print with a raft
- No supports needed.



# VEOG – 006 and VEOG – 006 (Left and right side rear beams)

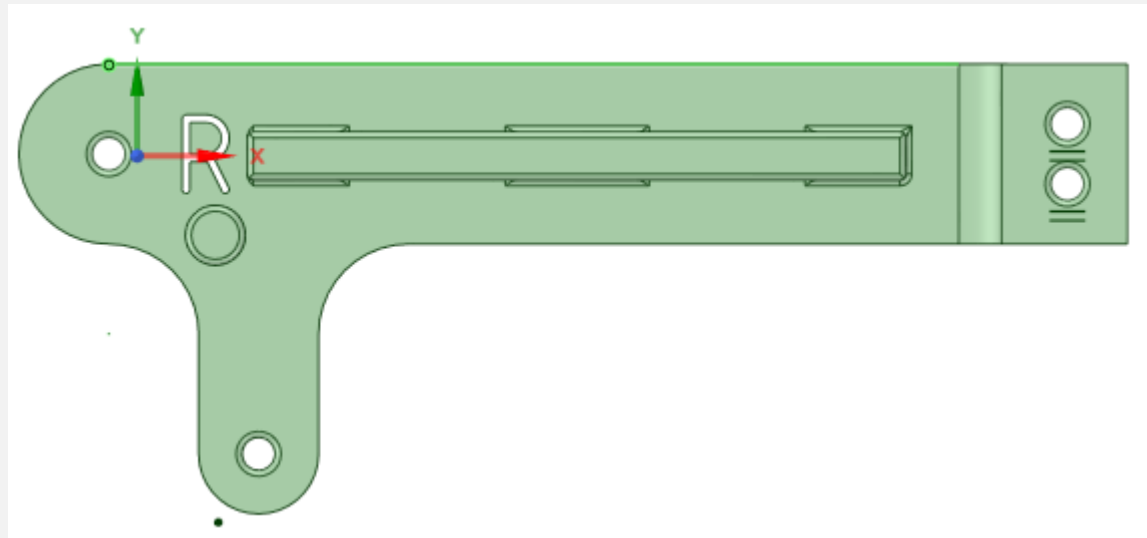
Main holes are 5.5mm



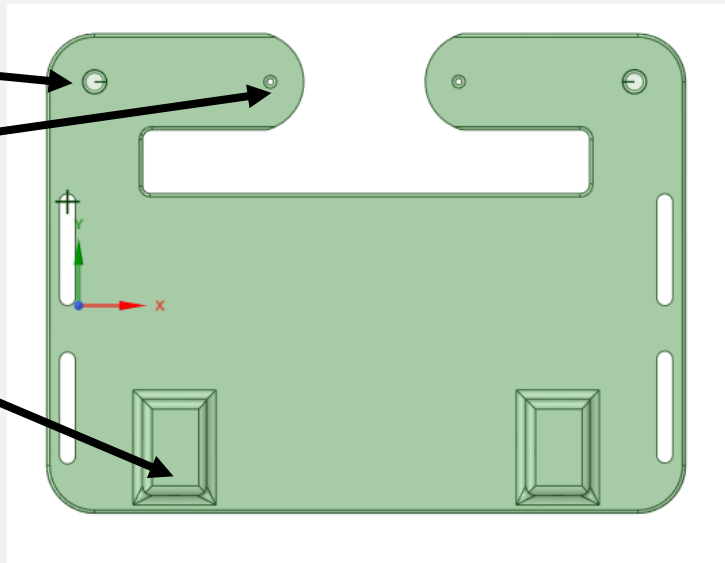
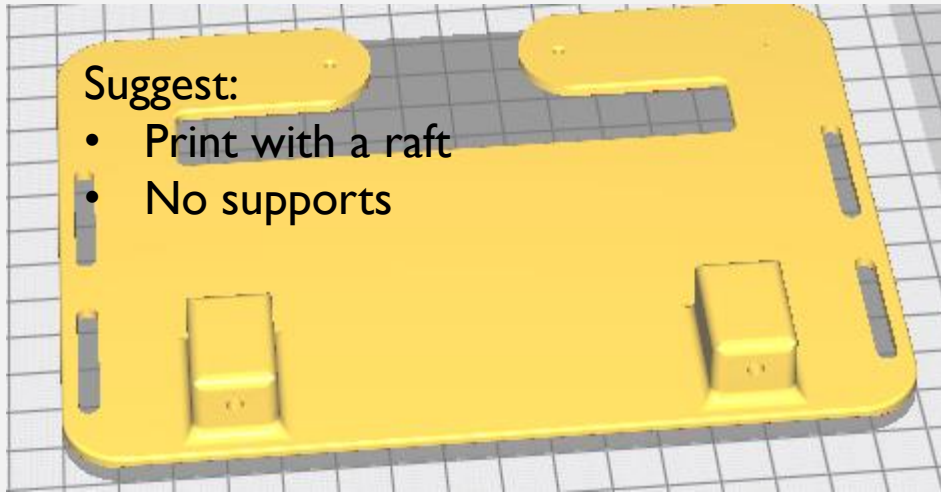
Suggest:

- Print with a raft
- Supports where touching the bed

Cut up a wire coat hanger and heat the end of the long straight section. Use this heated wire to clean out the 3mm longitudinal holes in the beams.

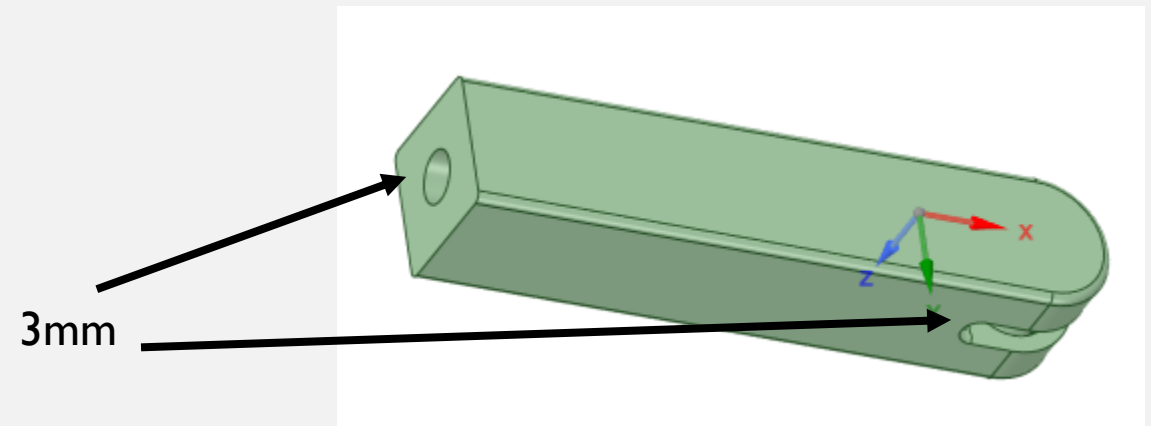
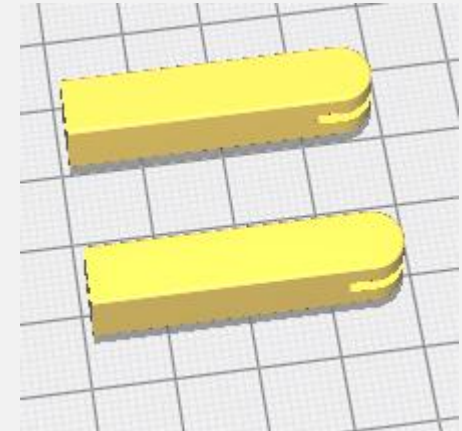


## VEOG – 008 Cuff



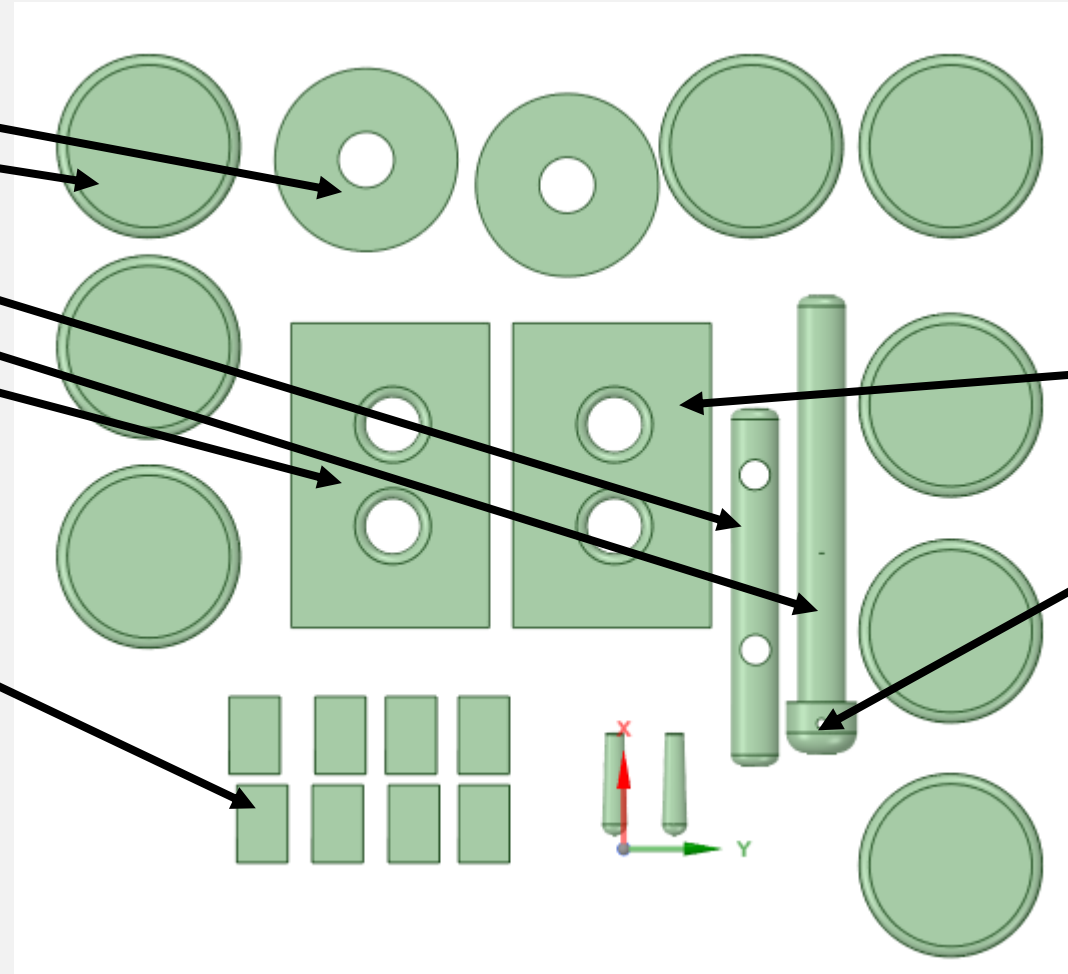
## VEOG – 008 – 001 Tensioner Two needed

- Suggest:
- Print with a raft
  - No supports



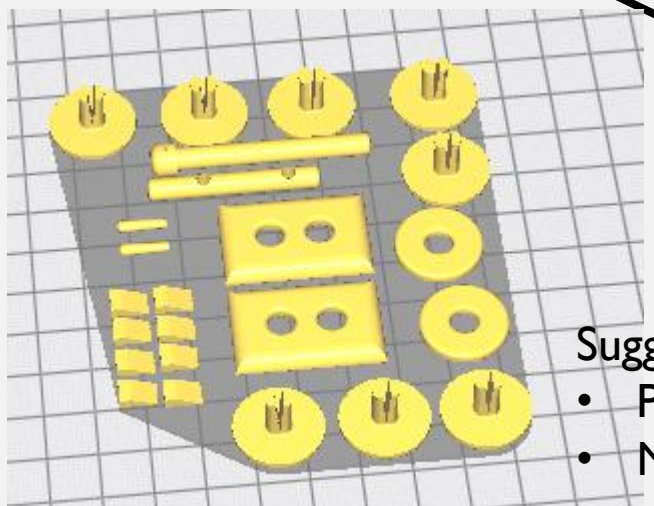
# VEOG – 009 Various

- Pivot and locking pin caps
- Pivot and locking pins (2 spare)
- Gripper base locking pin
- Wrist base rotating pin
- Forearm beam joining clips
- Wedges



5.5mm

2mm



- Suggest:
- Print with a raft
  - No supports