



How to build your robot

www.pib.rocks/build



assembly instructions for:

FOREARM



You
Print
Build
Develop

your own robot!

Printable parts



Pib's forearm consists of **6 printable parts** and is assembled in **5 steps**.

In order to construct the forearm, you will need to print the forearm parts as seen in the table.

Please note: For better readability we use the abbreviations in the tutorial: C18 instead of C18-Forearm_distal_bottom.

Printable parts

1 x **C18**-Forearm_distal_bottom

C19-Forearm_distal_top

C20-Forearm_cover

C22-Forearm_connector_left

C23-Forearm_connector_right

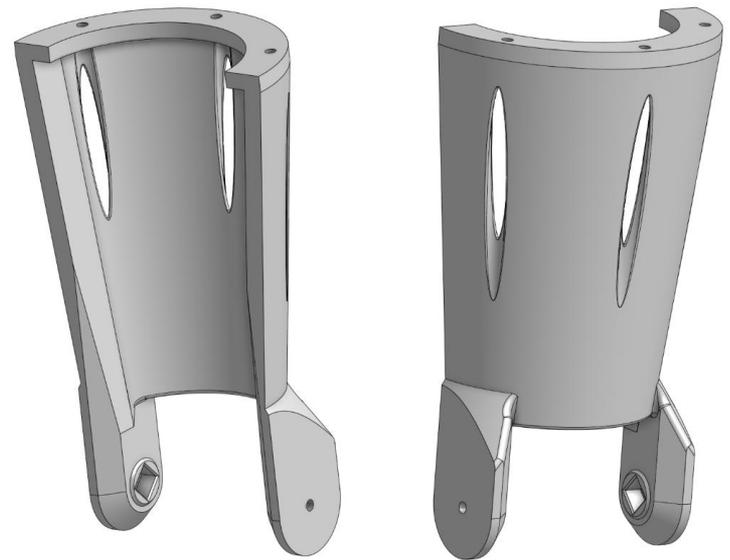
C24-Forearm_tube_enclosure

Printable parts - Overview

C18-Forearm_distal_bottom

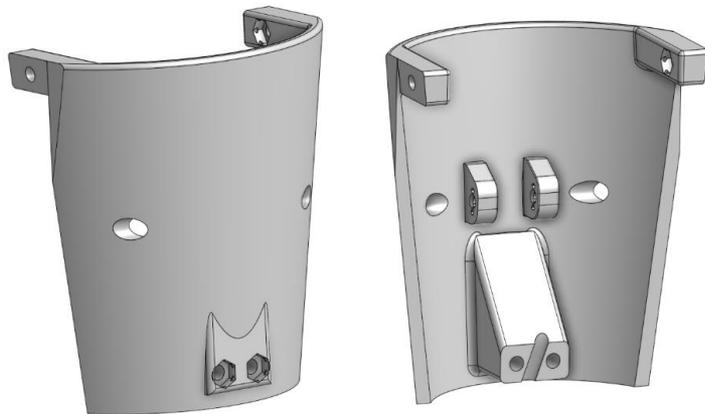


C19-Forearm_distal_top

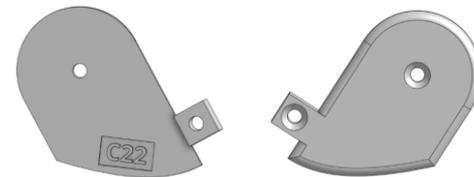


Printable parts - Overview

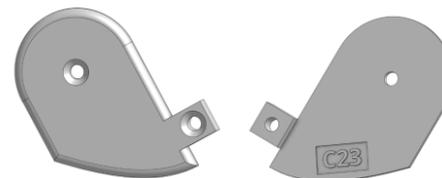
C20-Forearm_cover



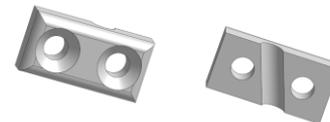
C22-Forearm_connector_left



C23-Forearm_connector_right



C24-Forearm_tube_enclosure



Non-printable parts



You will also need the following non-printable parts from our pib.Box Master.

If you do not have it yet, you can buy in our shop
<https://shop.pib.rocks>.

Non-printable parts

9 x **S01** M3 nuts

2 x **S05** M3 12 mm screws

3 x **S08** M3 20 mm screws

2 x **S09** M3 22 mm screws

2 x **S10** M3 25 mm screws

1 x **M08** 20 mm metal rod

1 x **M11** T460 spring

55 cm Teflon tube

2 x tape block

Build it better: our suggestion for assembling pib



We recommend **tools** for each step. These are a suggestion, you can of course also use other tools.



1-5

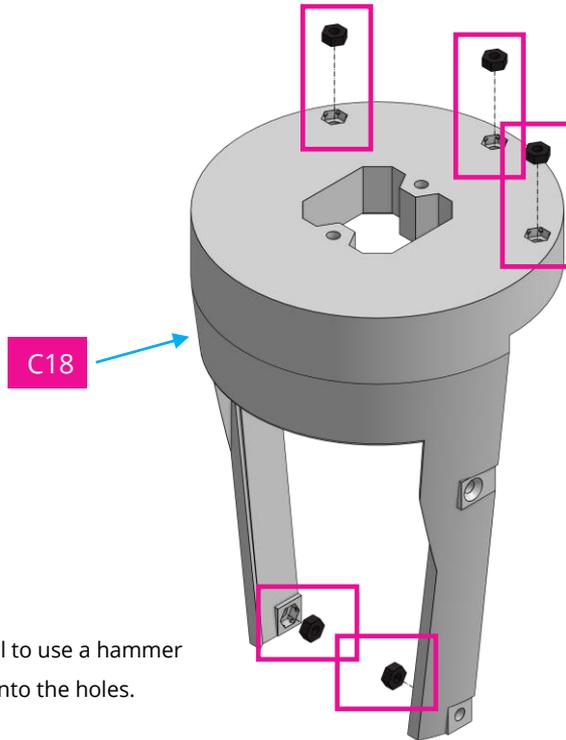
We have categorized each step according to its **difficulty** - from **1-5** (1 being the easiest, 5 the hardest)



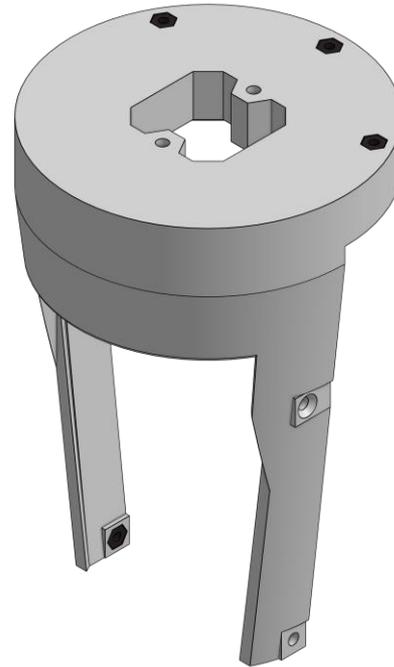
We also show you which **non-printable parts** you need for each step

Step 1

Insert **5 x nuts** in the shown spots in **C18**.



It may be helpful to use a hammer to put the nuts into the holes.



Step 2

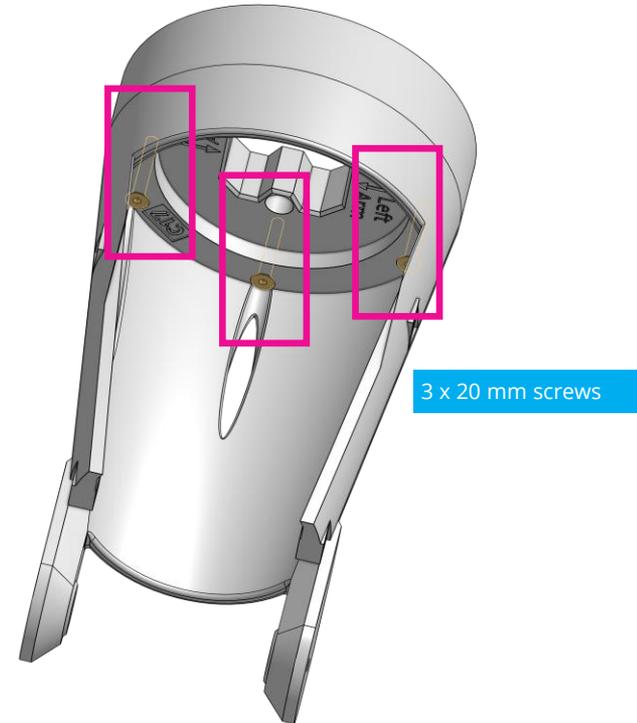
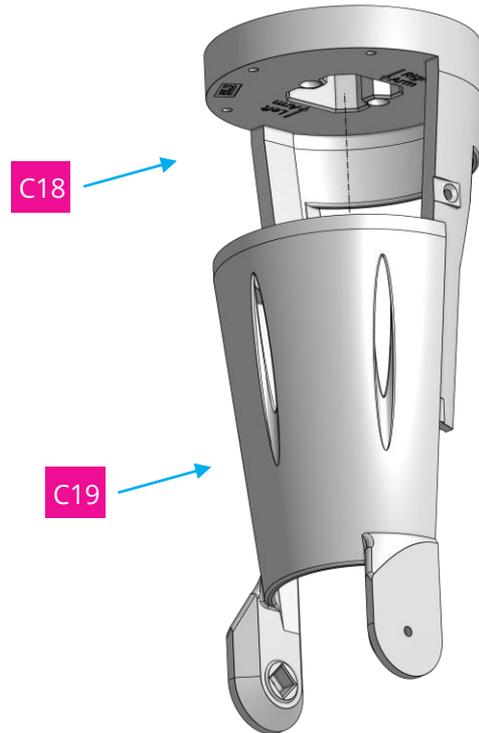
Assemble **C19** and **C18** with **3 x 20mm** screws.



1



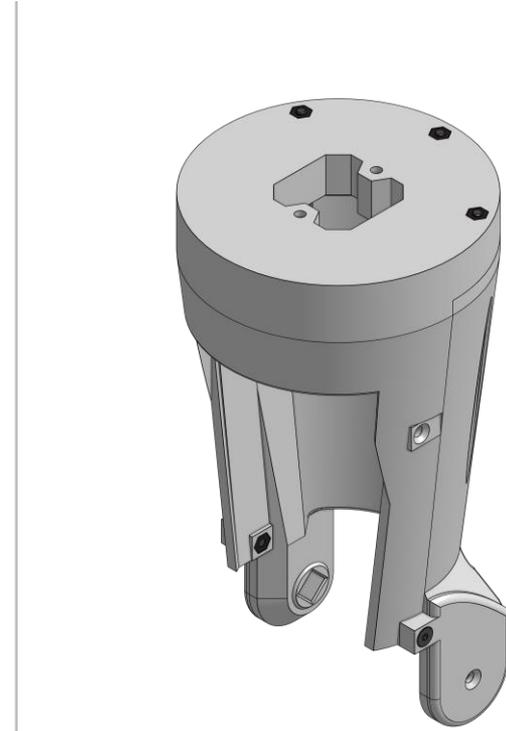
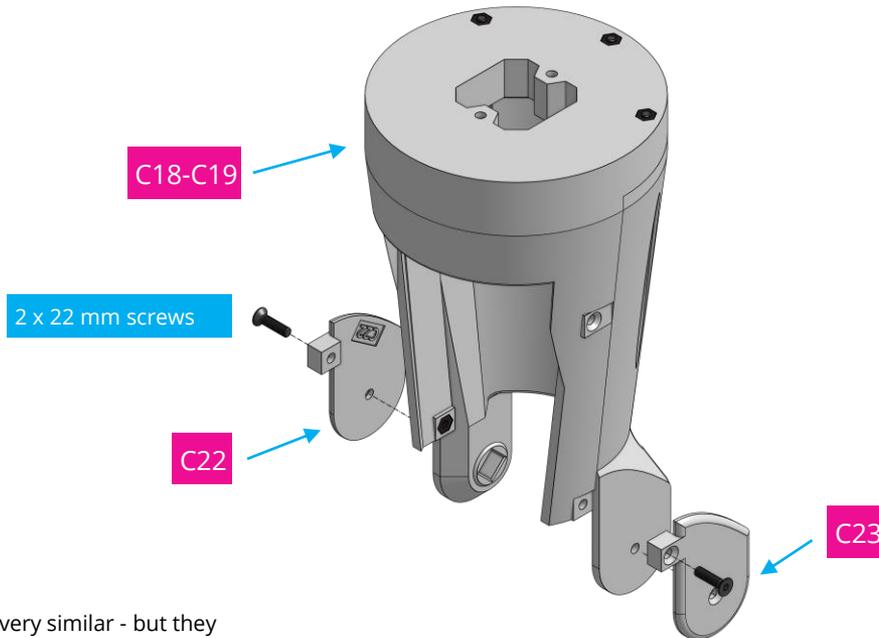
3x



Putting the screws in may be easier if you turn the assembly around. Make sure the nuts don't fall out.

Step 3

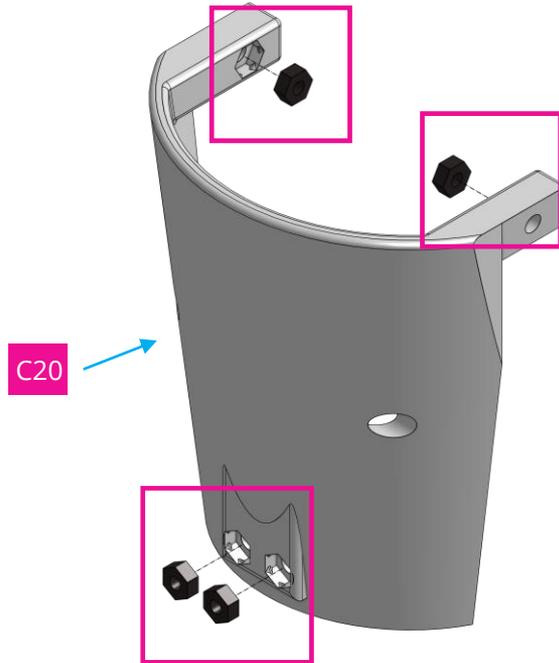
Assemble **C22** and **C23** with the previous assembly (C18-C19) using **2 x 22mm screws**.



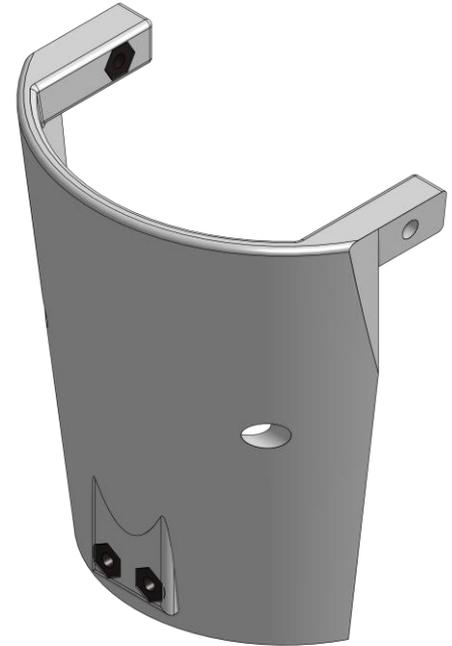
C22 and C23 look very similar - but they are not. Make sure you don't mix them up.

Step 4a

Insert **4 x nuts** into the shown spots of **C20**.

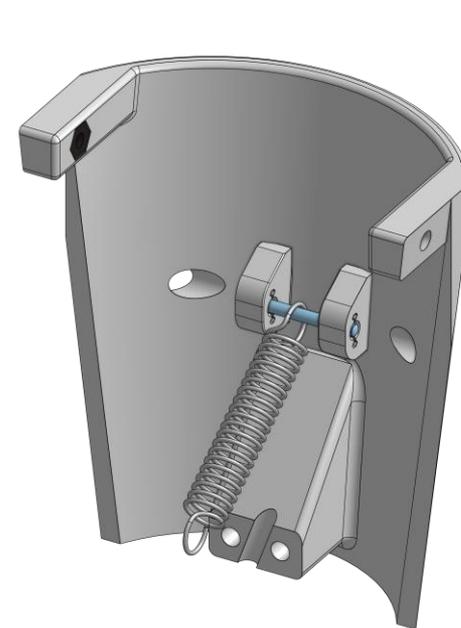
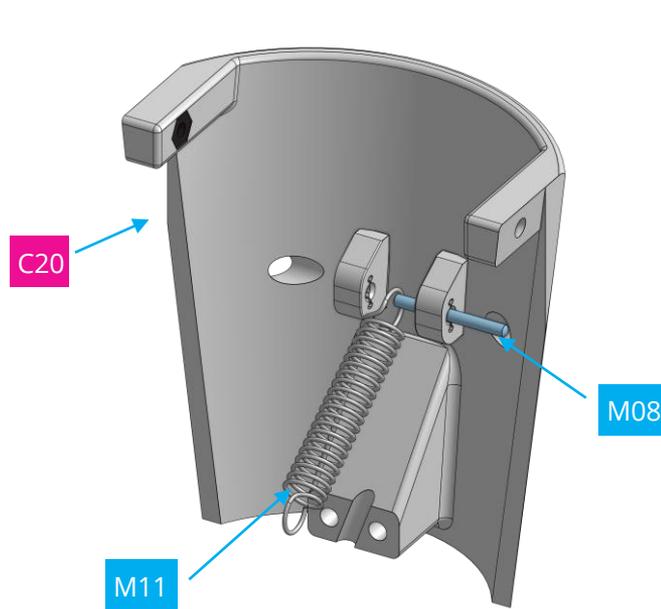
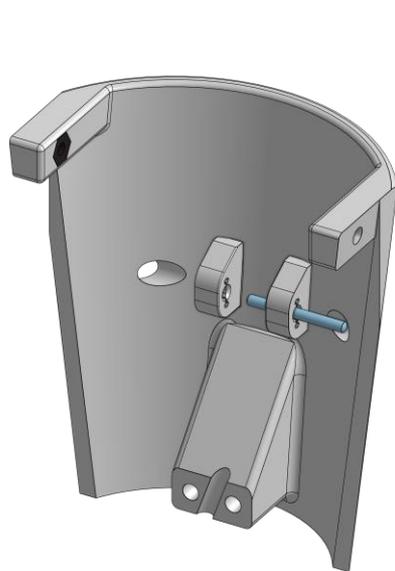


It may be helpful to use a hammer to put the nuts into the holes.



Step 4b

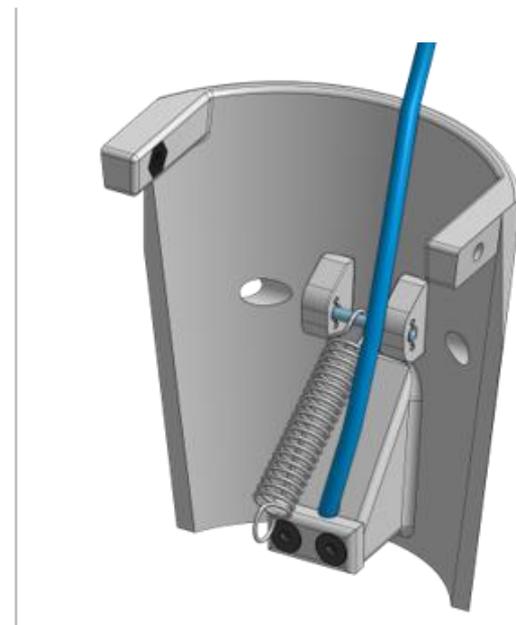
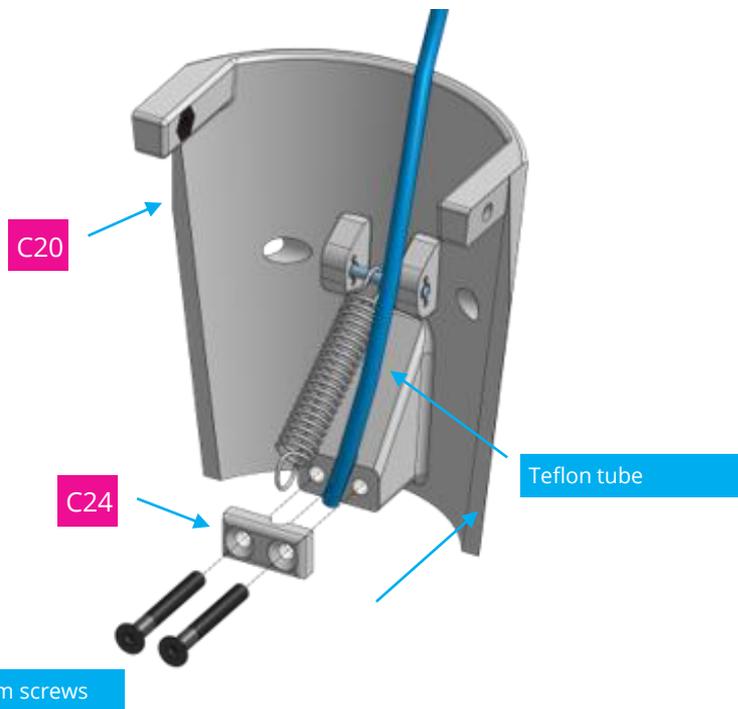
Insert a **M08** metalrod in the shown spot in **C20** till midway, then insert **M11 spring** (T460), lastly push the rod till the end to fix the spring.



It may be helpful to use a hammer to put the rod into place.

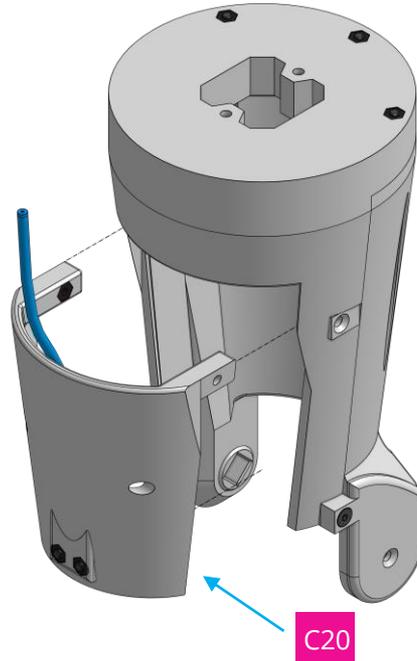
Step 4c

Cut 55cm of the **teflon tube**, wrap its tip with 2 x **tape** (not shown in picture) and place the teflon tube in the shown spot in **C20**. Lastly use **C24** and **2 x 25mm screws** to fix it.

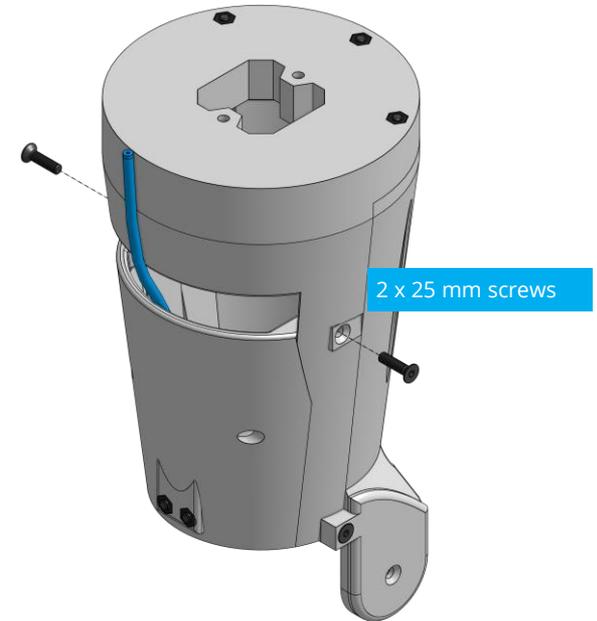


Step 5

Connect the assembly of **C20** to assembly from step 3 (C18-C19) using **2 x12mm screws**.



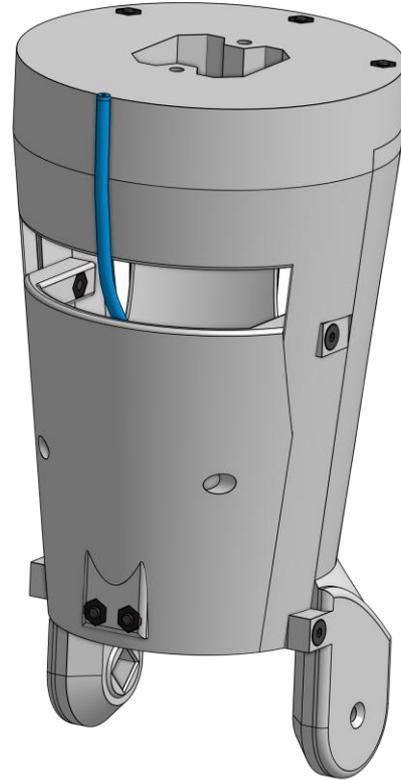
Please note: Do not fix it tightly as it will be disassembled and assembled again in the „hand to arm tutorial“.



Congratulations

You did a great job, the forearm is assembled!

Well done!



Do you need support?



Or do you need our pib.Box with all non-printable parts?

Or maybe you have some new ideas and improvements?

Please contact us.



team@pib.rocks
Send us an email.



discord.com/invite/GRdpyeDu7P
Join us on Discord.



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Order non-printable parts for pib.