

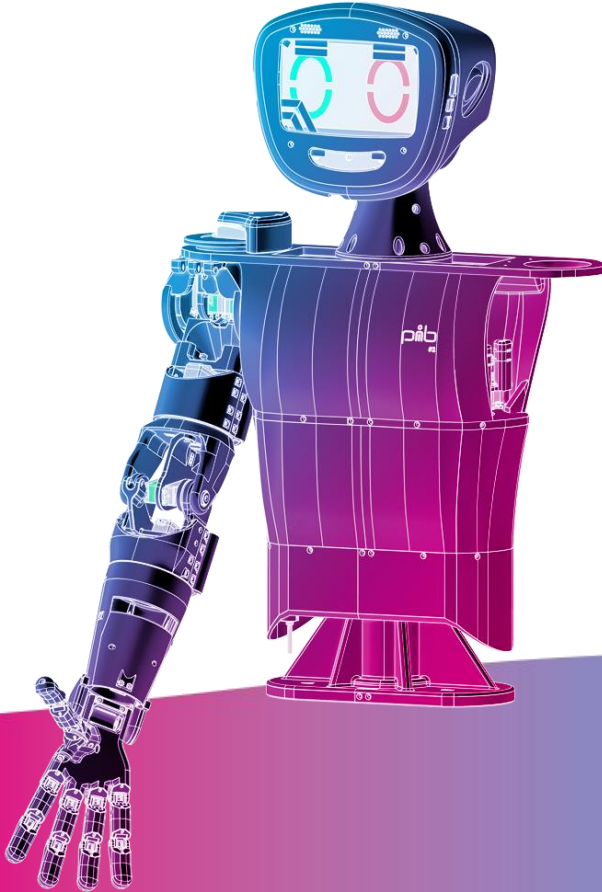


How to build your robot

www.pib.rocks/build



assembly instructions



You
Print
Build
Develop

your own robot!

How to build pib

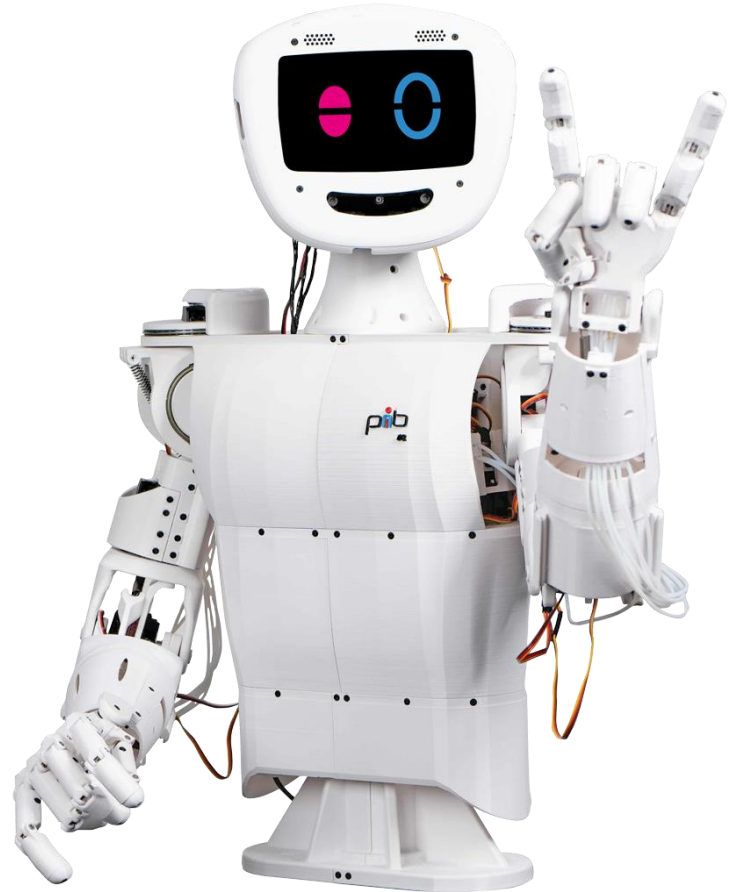


pib – our printable intelligent bot - consists of **130 printable parts** and several non-printable parts.

pib is made up of individual components that are equivalent to human body parts. Your first step will be putting together these components following our building manuals. In a next step, you will assemble all the components to create the complete robot.

You are completely free to choose the order in which you build pib.

However, we have created a small guide suggesting the order of assembly that we have found to be the easiest. Feel free to use it.



Non-printable parts



You will also need some non-printable parts like motors, screws, camera, wires, etc.

If you do not have it yet, you can buy our pib.Box Master in our shop:

<https://shop.pib.rocks>

The pib.Box Master contains all non-printable parts to build pib with one arm. If you wish to build a second arm, you will find everything you need for that in the pib.Box Grower.



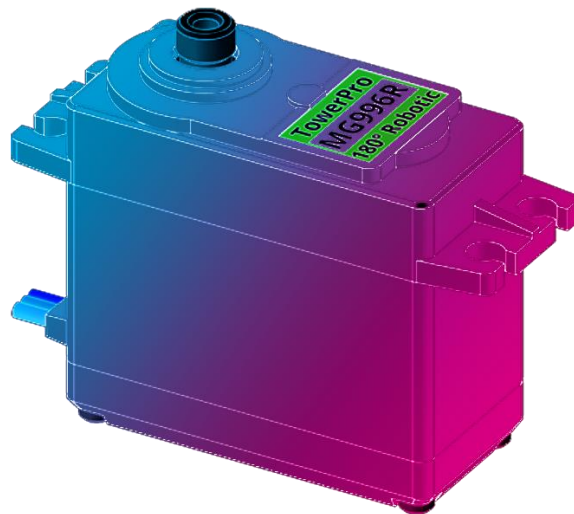
Step 0 – Motor calibration



Whenever you will need to insert a motor to pib, it is necessary to calibrate them first.

You find the tutorial here:

<https://pib.rocks/build/how-to-calibrate-the-motor/>



Step 1a - Head



Start with building pib's head.

You find the tutorial here:

<https://pib.rocks/build/how-to-build-pibs-head/>



Step 1b - Software



Continue with pib's software.

You find the tutorials here:

<https://pib.rocks/build/how-to-install-raspberry-pi/>

<https://pib.rocks/build/how-to-install-a-digital-twin-of-pib/>



Step 1c - Neck



Last step in part 1 is pib's neck.

You find the tutorial here:

<https://pib.rocks/build/how-to-build-pibs-neck-variant-pro/>



Summary Step 1



If you have followed our instructions, you should now have this structure ready after step 1:



Step 2a - Finger

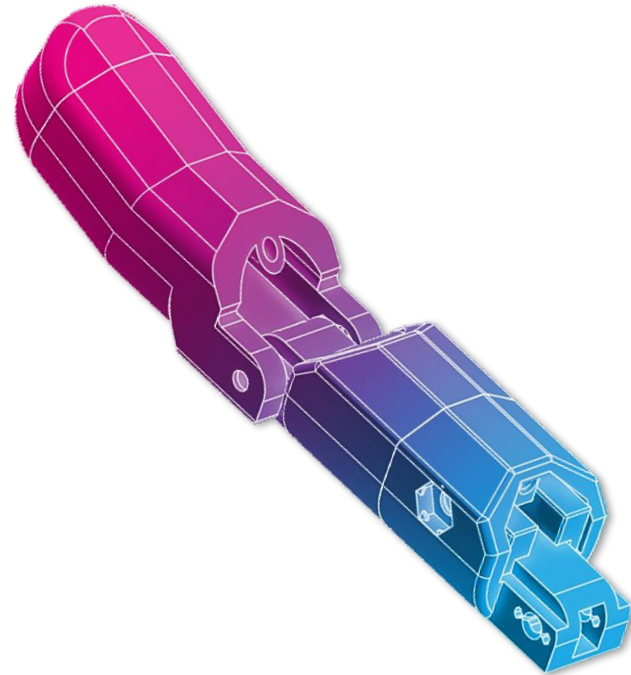


Start with building pib's finger.

You find the tutorial here:

<https://pib.rocks/build/how-to-build-pibs-finger/>

For one hand you should build 5 identical finger.



Step 2b - Hand

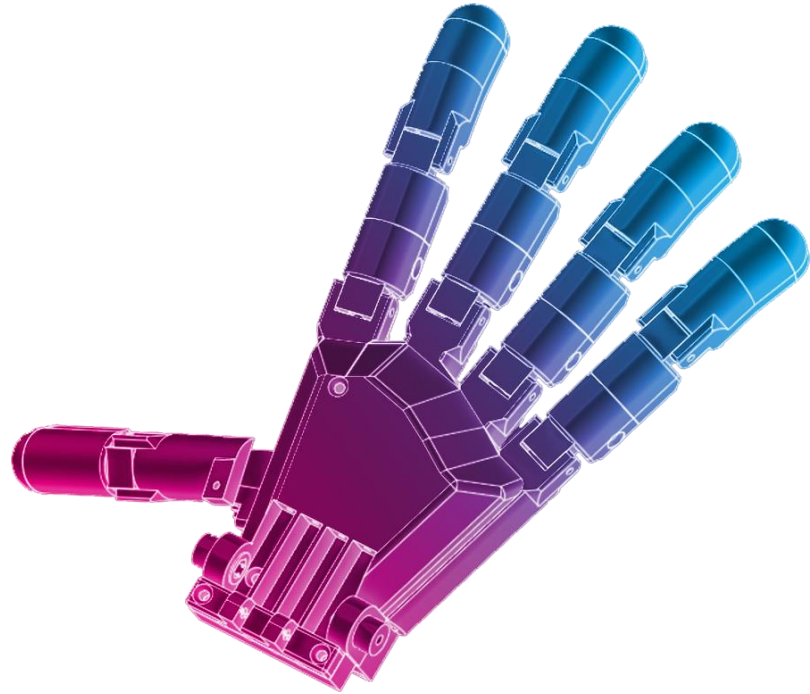


Continue with building pib's hand.

You find the tutorial here:

<https://pib.rocks/build/how-to-build-pibs-hand/>

Info: Our tutorial is made for building the right hand of pib's.



Step 2c - Forearm



Continue with building pib's forearm.

You find the tutorial here:

<https://pib.rocks/build/how-to-build-pibs-forearm/>



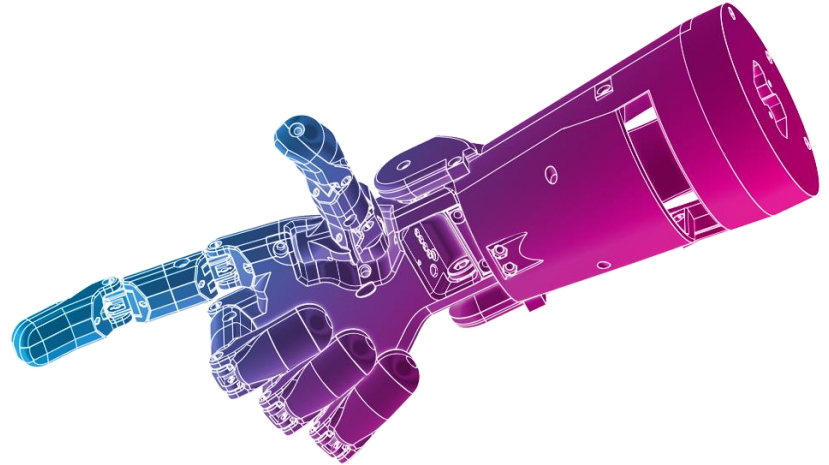
Step 2d – Assemble hand to forearm



Now, we can assemble the hand and the forearm.

You find the tutorial here:

<https://pib.rocks/build/how-to-assemble-pibs-hand-to-pibs-arm/>



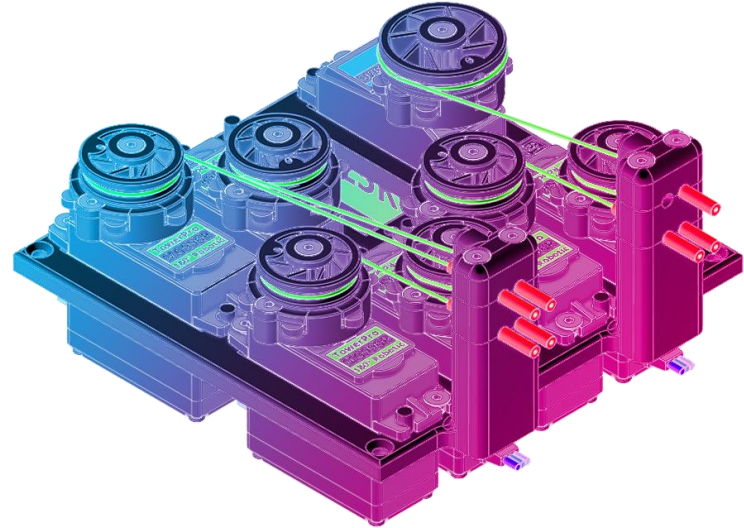
Step 3a – Internal body



Start with building pib's internal body.

You find the tutorial here:

<https://pib.rocks/build/how-to-build-pibs-internal-body/>



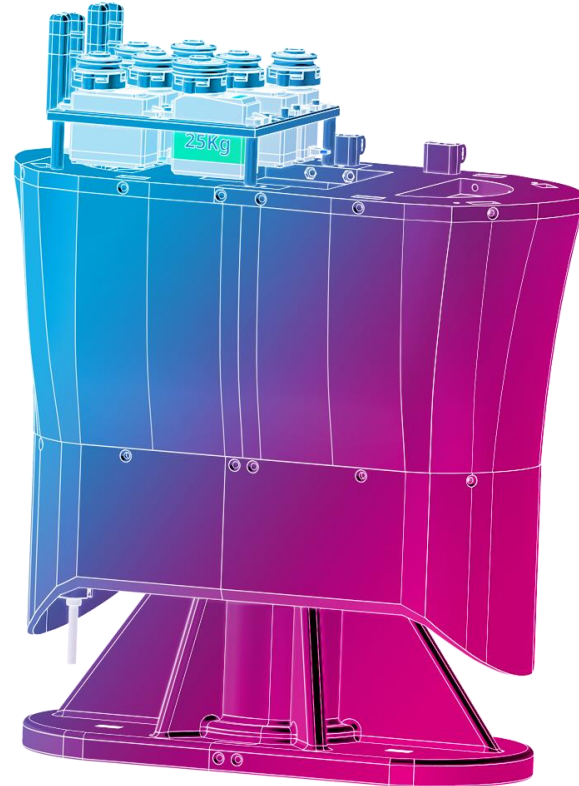
Step 3b – Upper body (ripcage)



Continue with building pib's ripcage – the upper body.

You find the tutorial here:

<https://pib.rocks/build/how-to-build-pibs-upper-body/>



Step 4 – Shoulder joint



Continue with building pib's shoulder joint.

You find the tutorial here:

<https://pib.rocks/build/how-to-build-pibs-shoulder-joint/>



Step 5 – Assemble upper body and head



Now, we assemble the head from step 1, the shoulder joint from step 4 with the upper and inner body from step 3.

You find the tutorial here:

<https://pib.rocks/build/how-to-assemble-pibs-upper-body-with-head/>



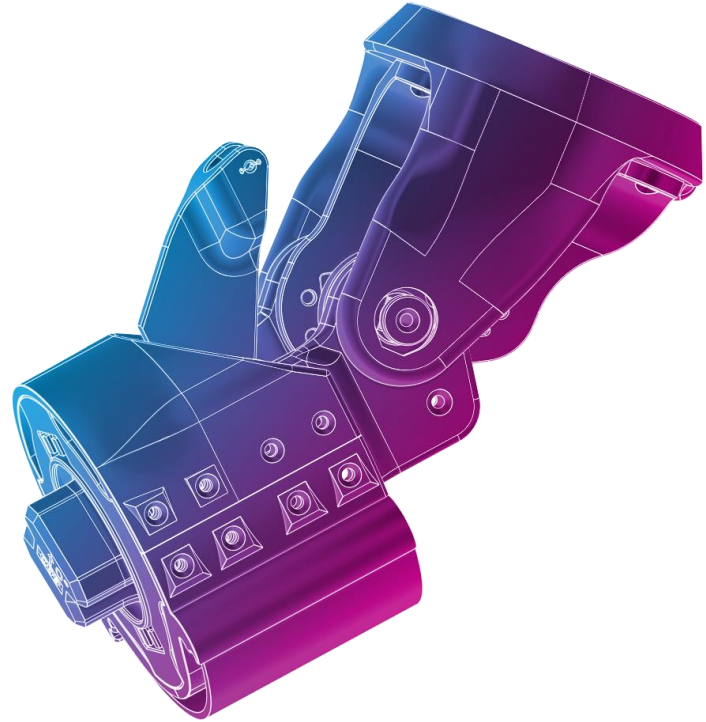
Step 6 – Elbow



Continue with building pib's elbow.

You find the tutorial here:

<https://pib.rocks/build/how-to-build-pibs-elbow/>



Step 7 – Assemble arm to pib's upper body



In the last step, we assemble pib's arm together and then connect it to the rest of pib's body.

You find the tutorial here:

<https://pib.rocks/build/how-to-assemble-pibs-arm-to-pib/>

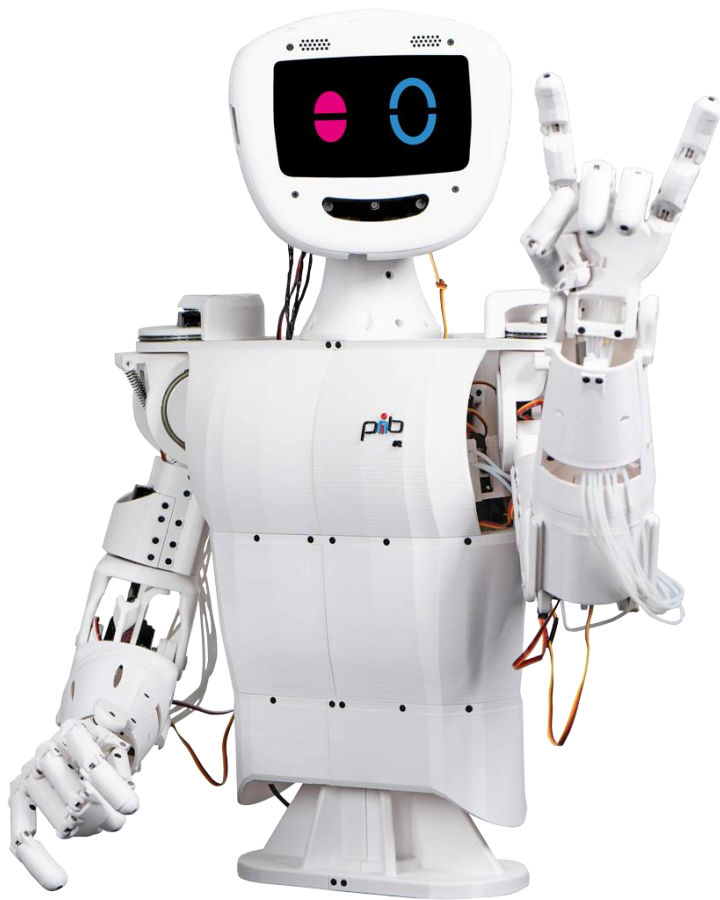


Congratulation!



You did a great job!

Share your experience with us and join us on Discord!



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.



shop.pib.rocks

Order non-printable parts for pib.