ASSEMBLY INSTRUCTIONS

LOONY CLAW: v1.0

Designed by Jameson

BILL OF MATERIALS

| PART NAME	SKU	QUANTITY	CHECK
block mount		1	
idle arm		1	
servo arm		1	
top plate		1	
servo mount		1	
M4x10	2802-0004-0010	2	
M4x12	2802-0004-0012	9	
M4x18	2802-0004-0018	4	
M4x30	2802-0004-0030	3	
M4 Nut	2812-0004-0007	18	
Low Side U Channel	1121-0001-0048	1	
4mm ID Spacer, 24mm	1502-0006-0240	1	
25 Tooth Spline Servo Hub	1908-0025-0032	1	
Torque Servo	2000-0025-0002	1	
L-Beam, 1 Hole	1103-0001-0008	2	
6mm Bearing	1611-0514-0006	2	
8mm Hex Bearing	1611-0514-4008	1	

NOTES:

- This claw can be built using an Axon Mini or Mini+ servo using the "Axon Mini servo mount" part instead of the "servo mount." The STL can be found in the GitHub repository for this design.

- The Low Side U Channel can be replaced with any length low side U channel, U channel, or goBILDA plate. The only requirement for mounting this claw is a flat surface with a 32x32 hole pattern.

- You will also need some kind of grippy material to line the insides of the claws. This design has been tested with surgical tube and hot glue, both of which work well for holding the cones.

- For questions or concerns, reach out to members of the Loony Squad on discord.

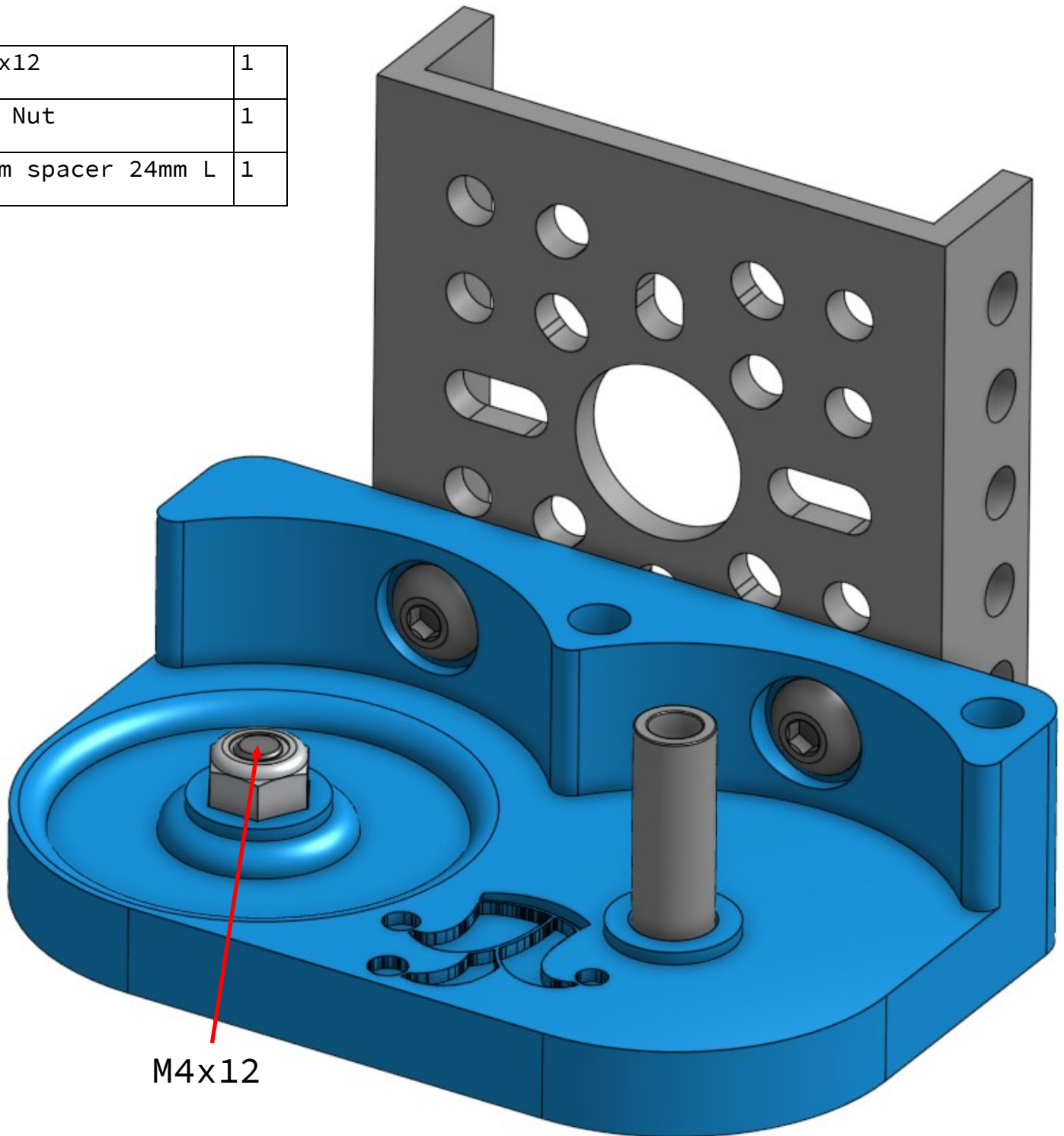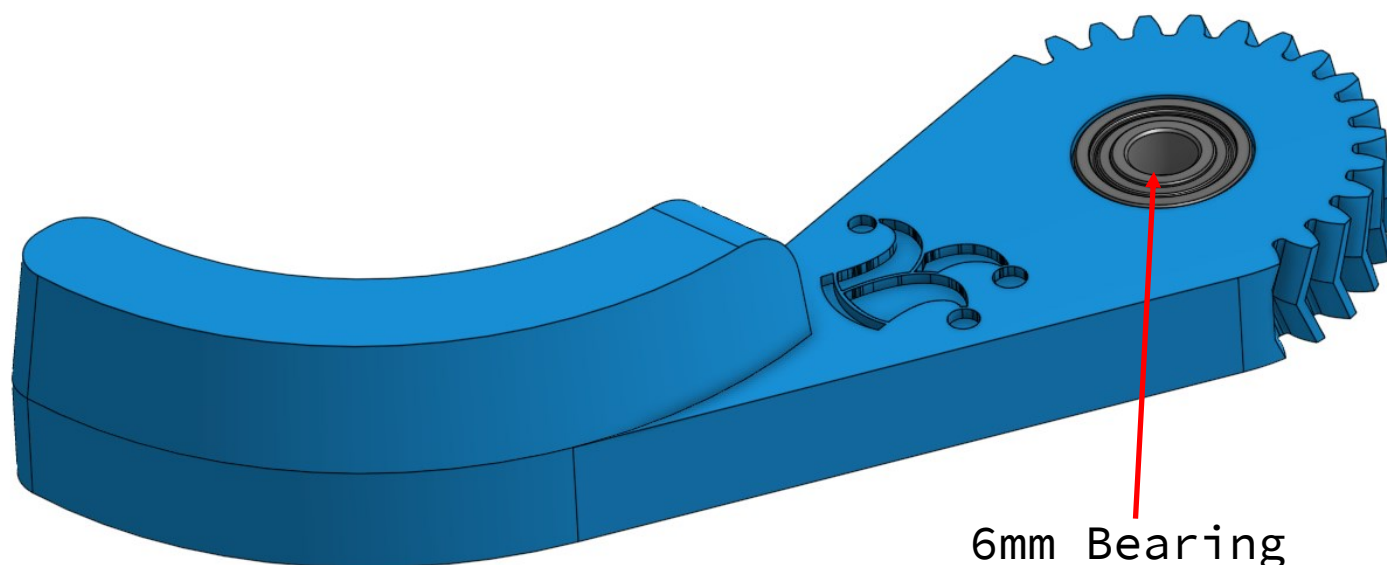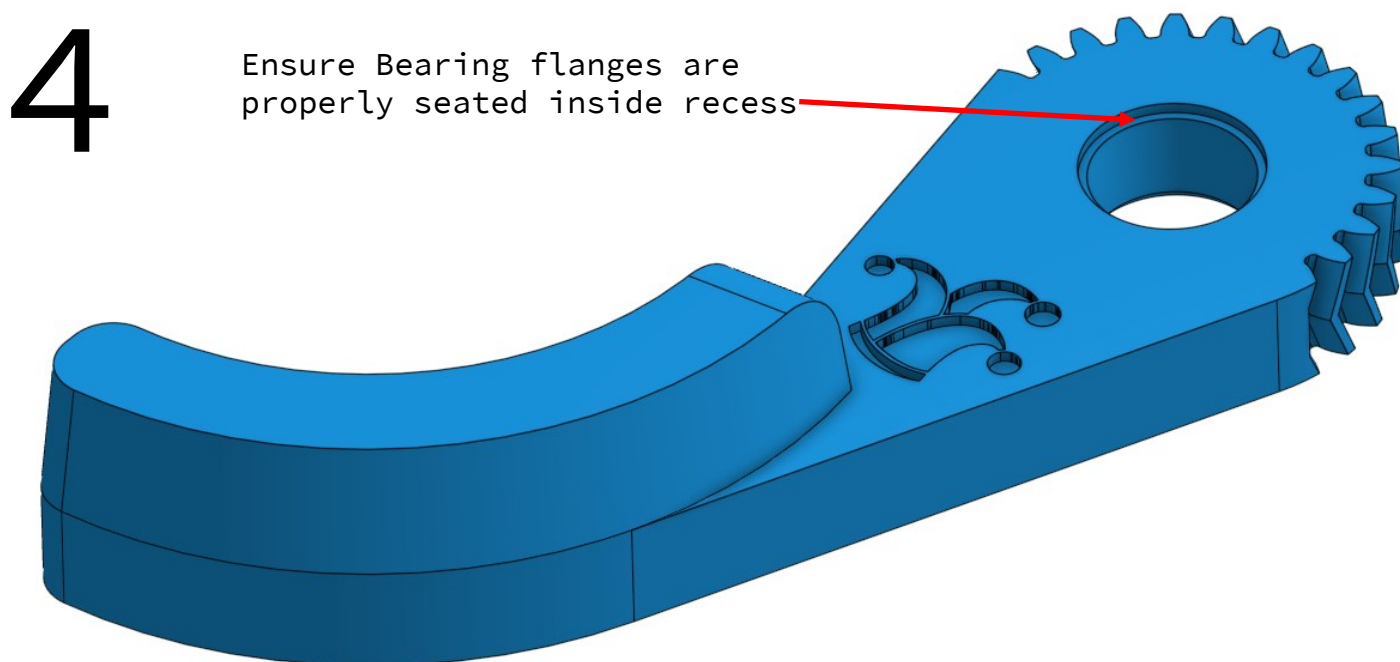- Tables on each page will tell you how many fasteners you need.

1
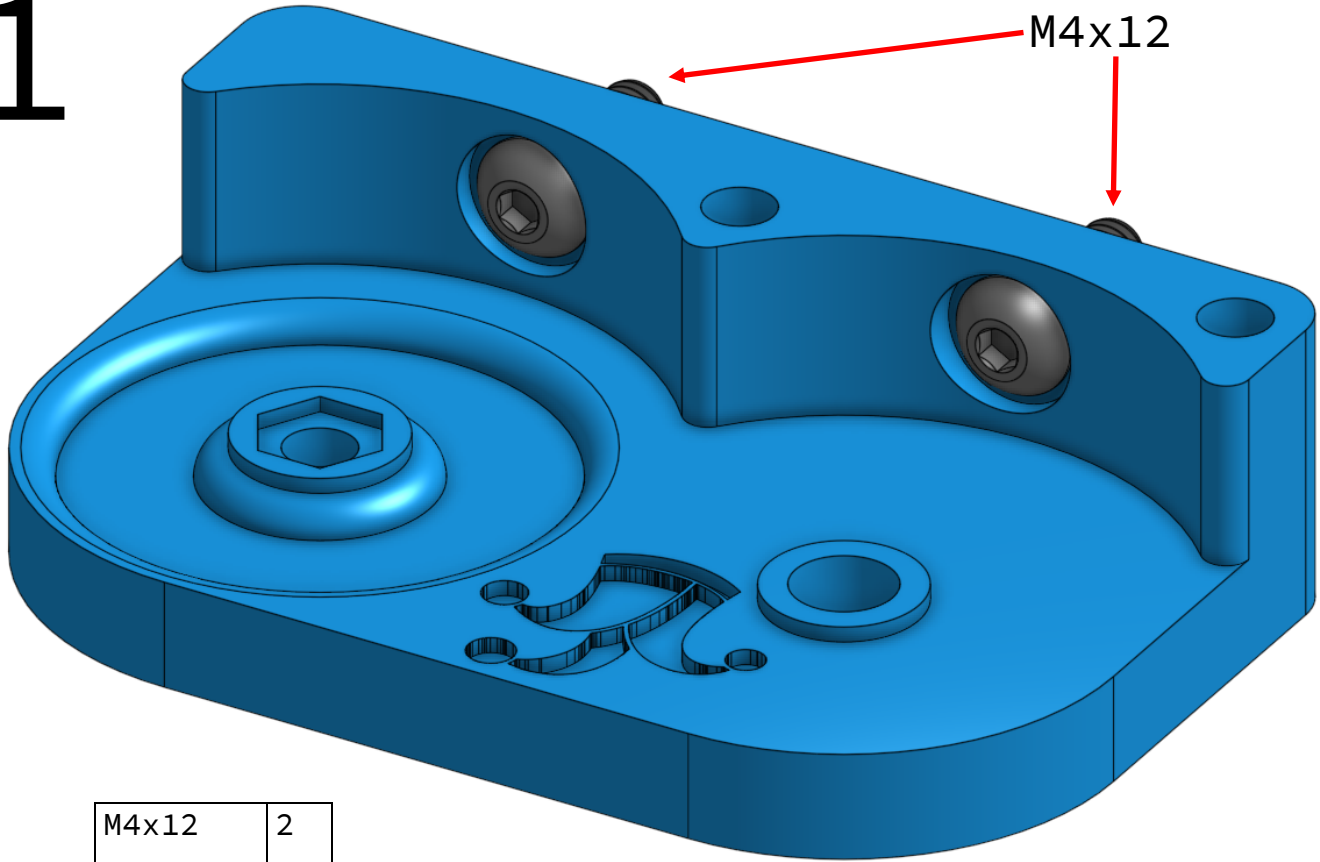
M4x12

M4x12	2
M4 Nut	2

2
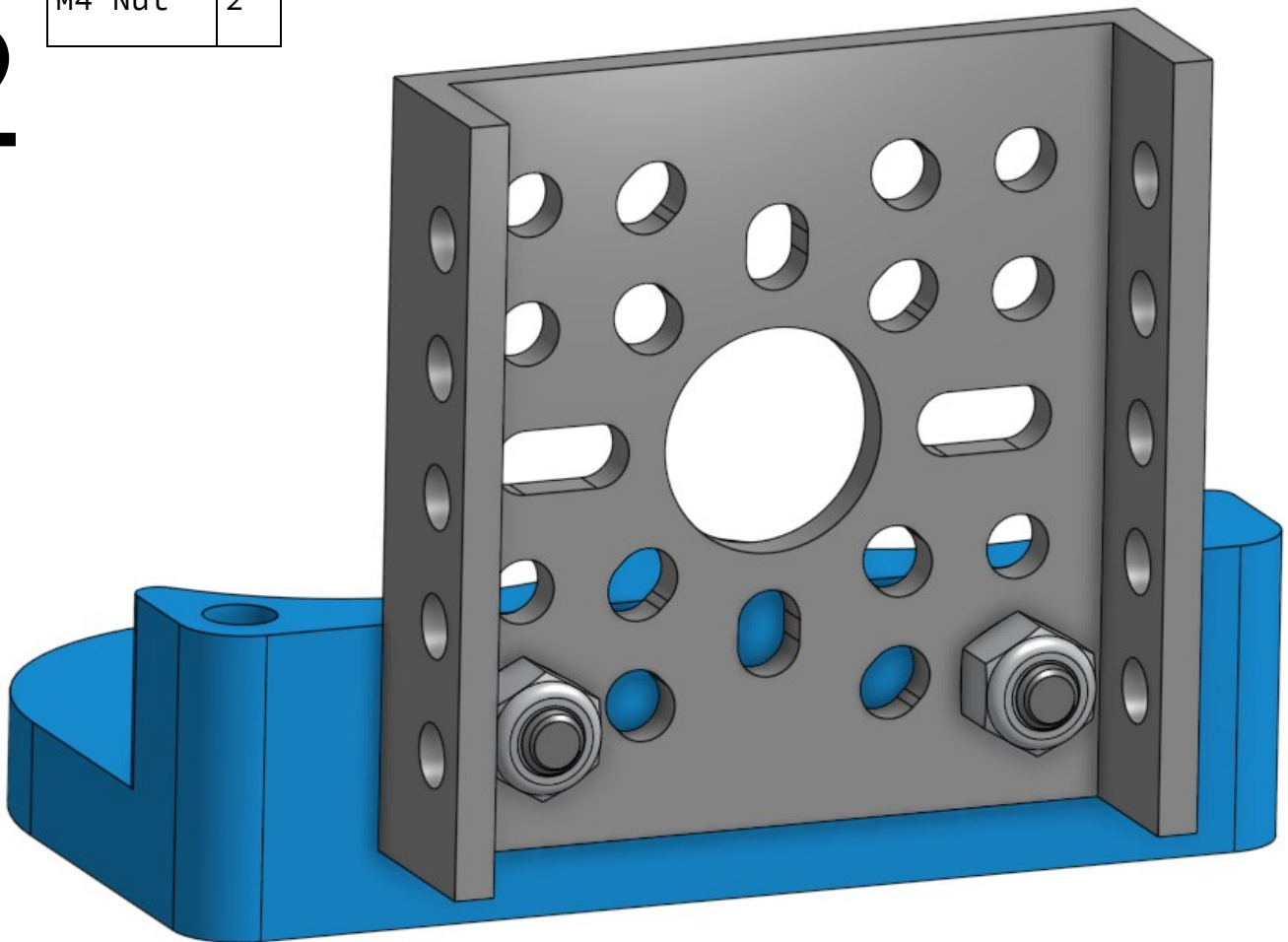
3

M4x12	1
M4 Nut	1
6mm spacer 24mm L	1

M4x12
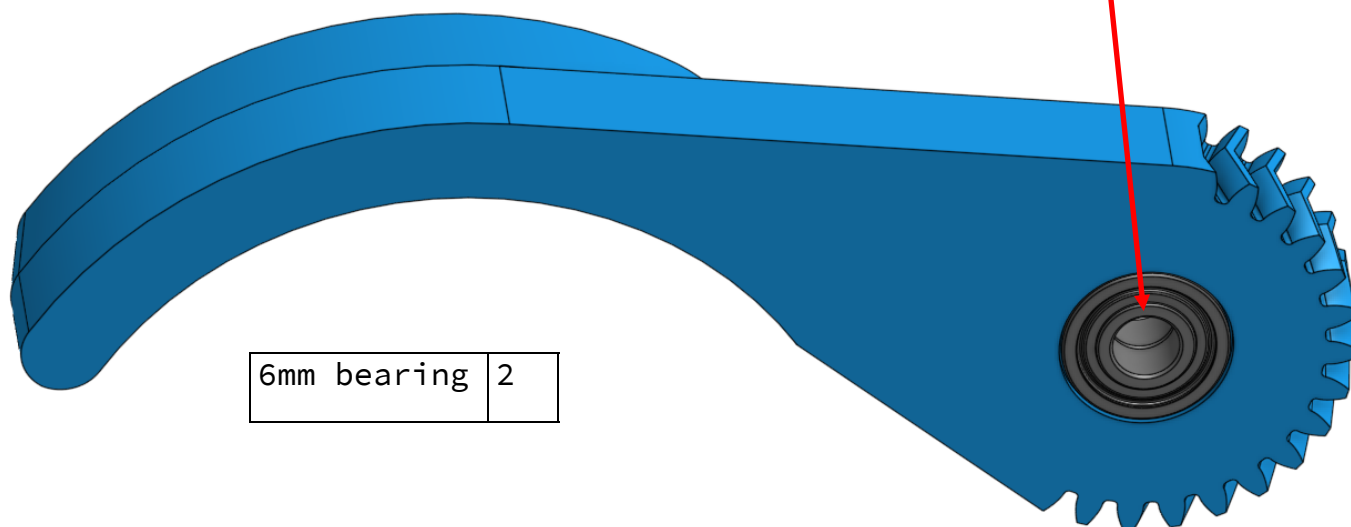
4

Ensure Bearing flanges are
properly seated inside recess

6mm Bearing

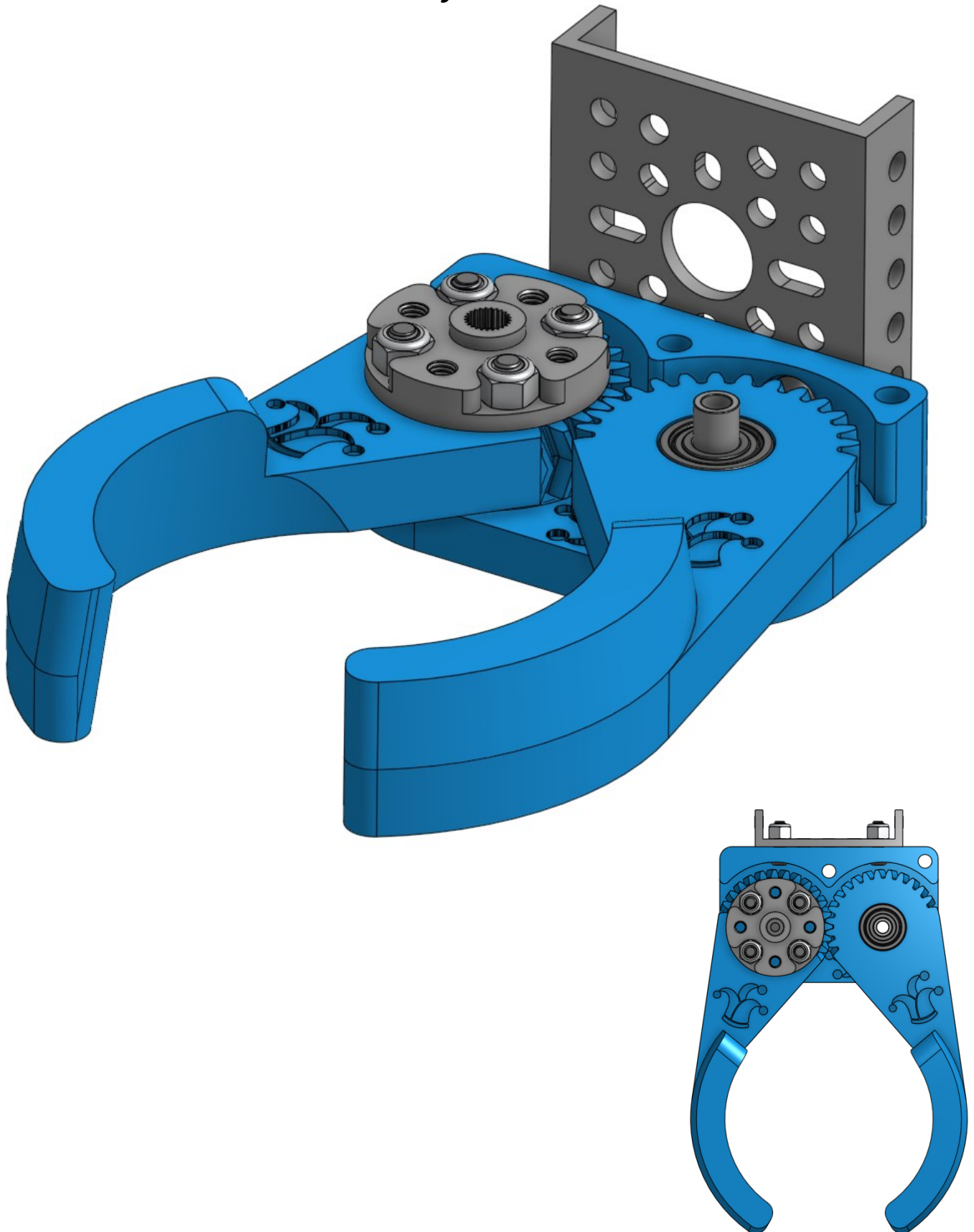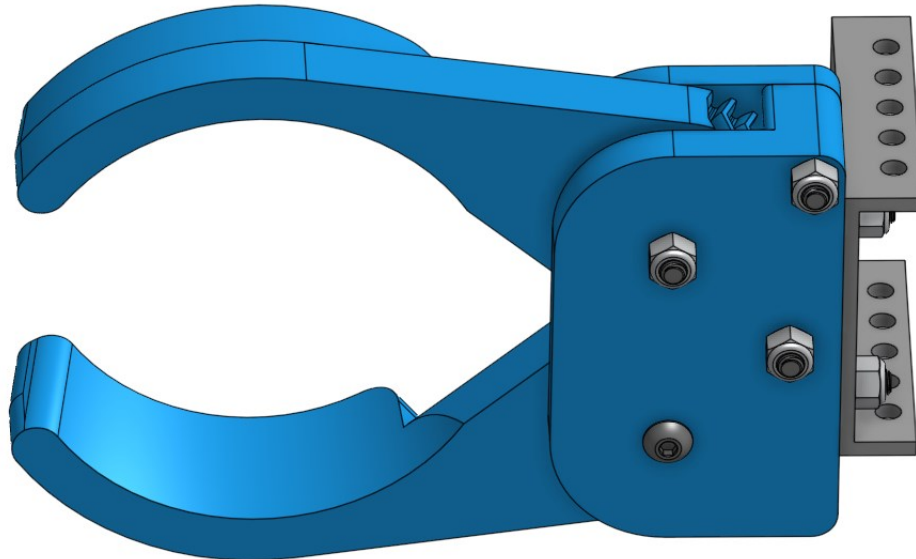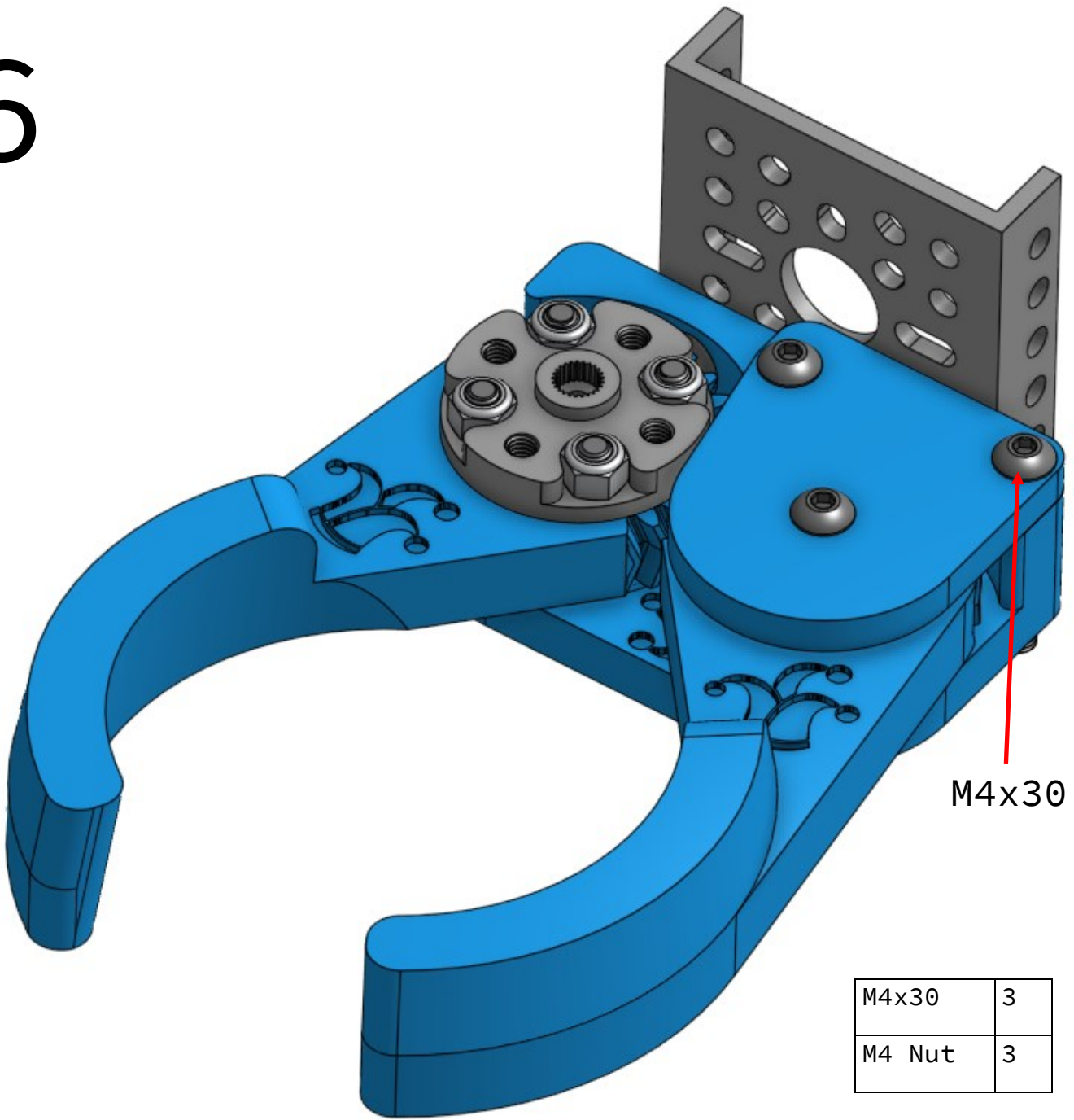| 6mm bearing | 2 |

5
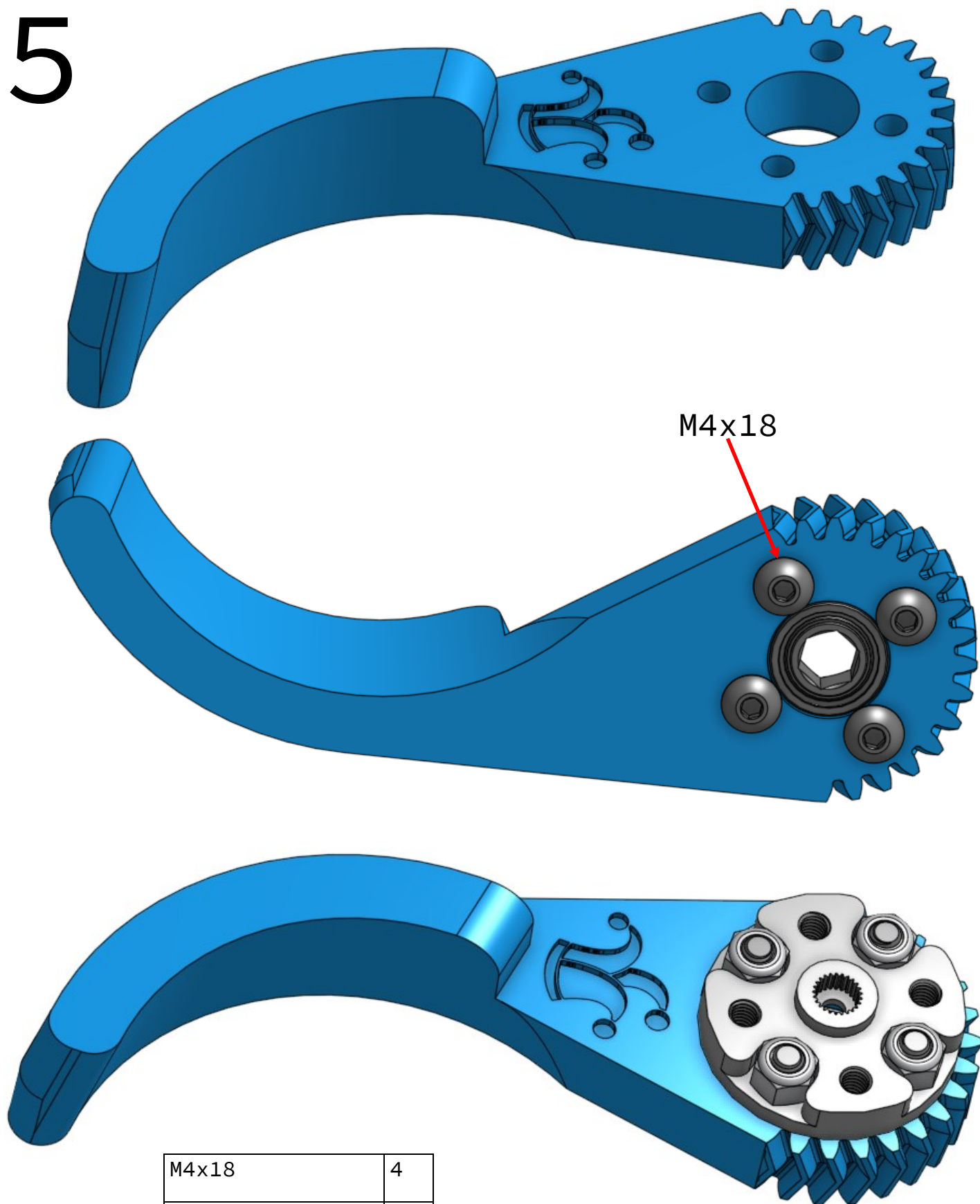
M4x18

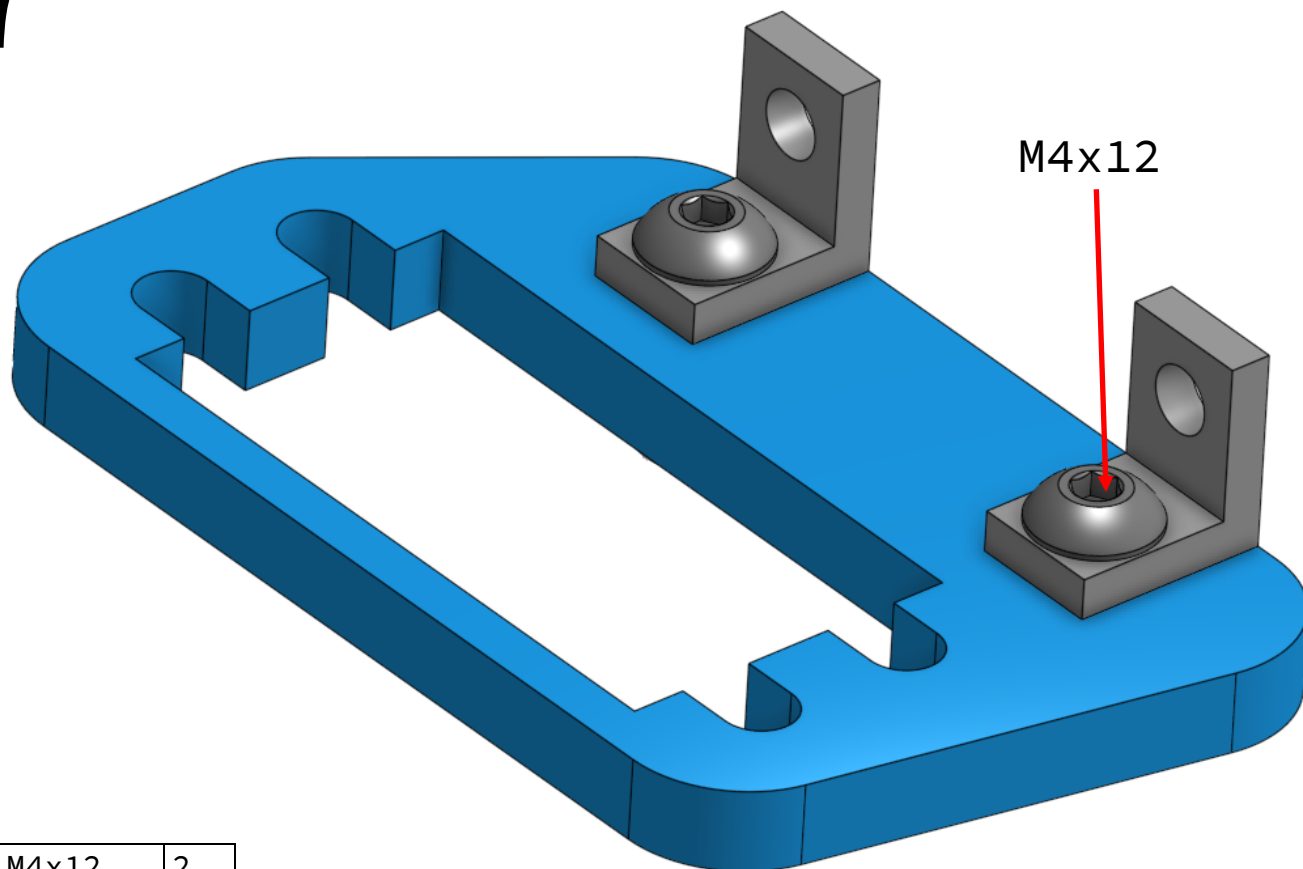| M4x18	4
M4 Nut	4
8mm hex bearing	1

6

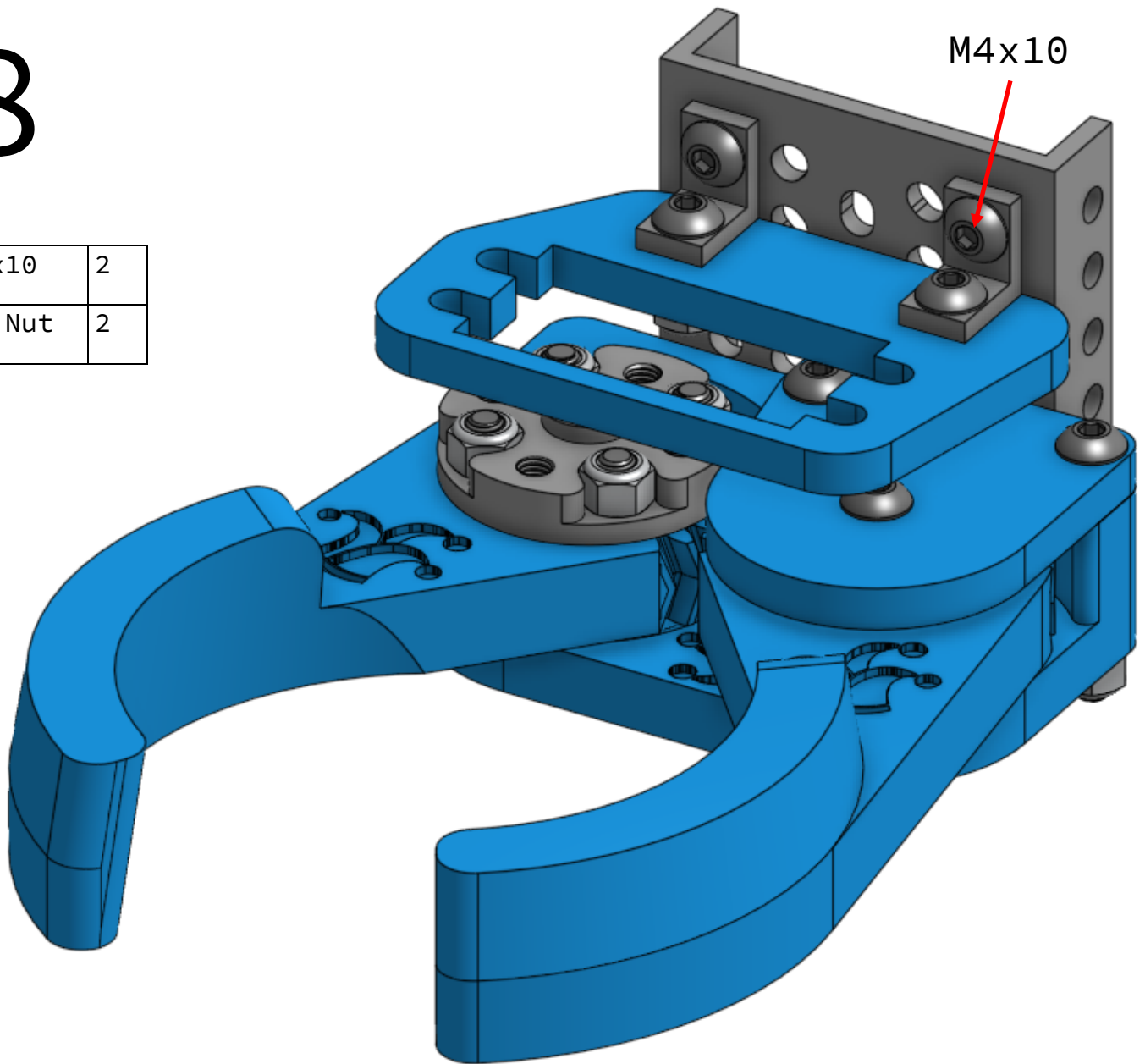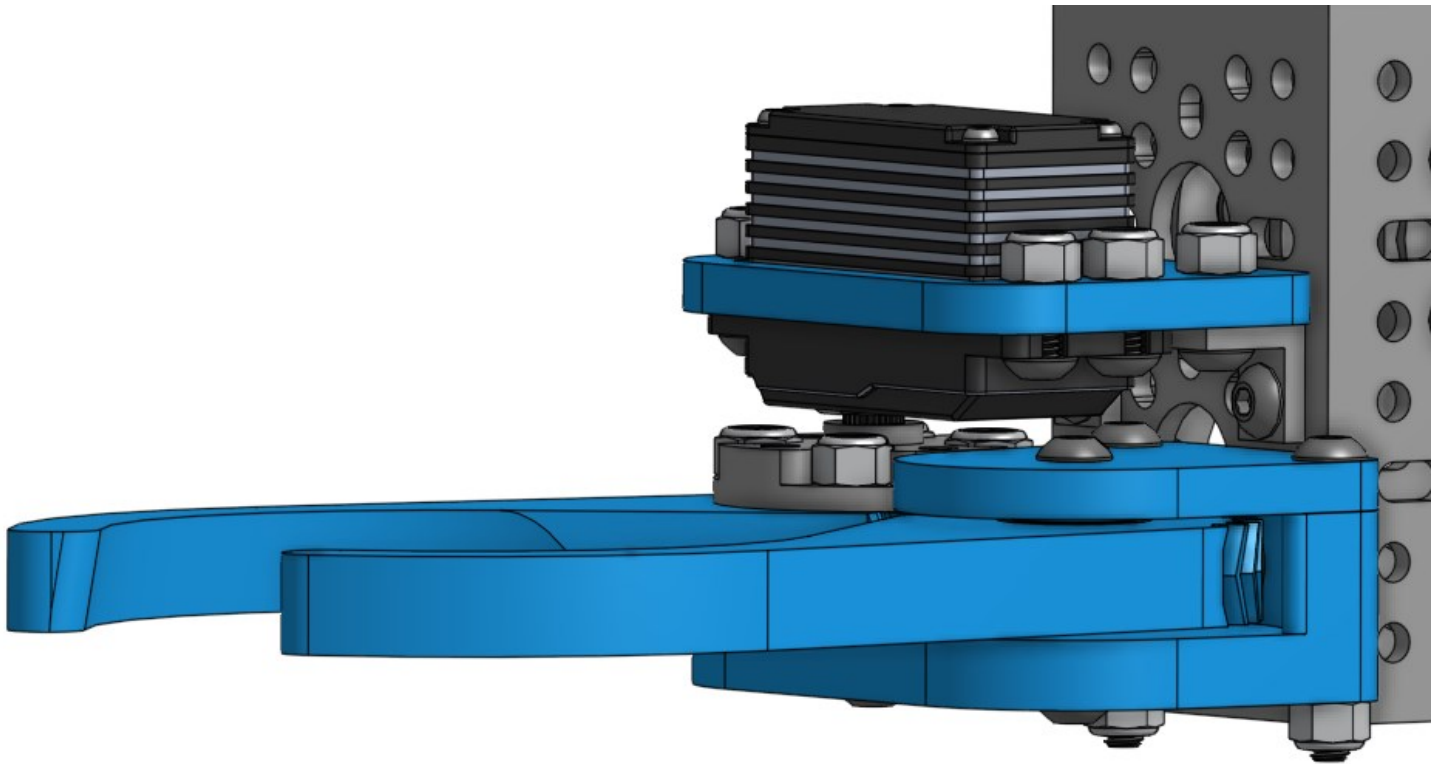Ensure teeth are properly meshed and arms aligned to center of assembly.

6

M4x30

M4x30	3
M4 Nut	3

7

M4x12

M4x12	2
M4 Nut	2

8
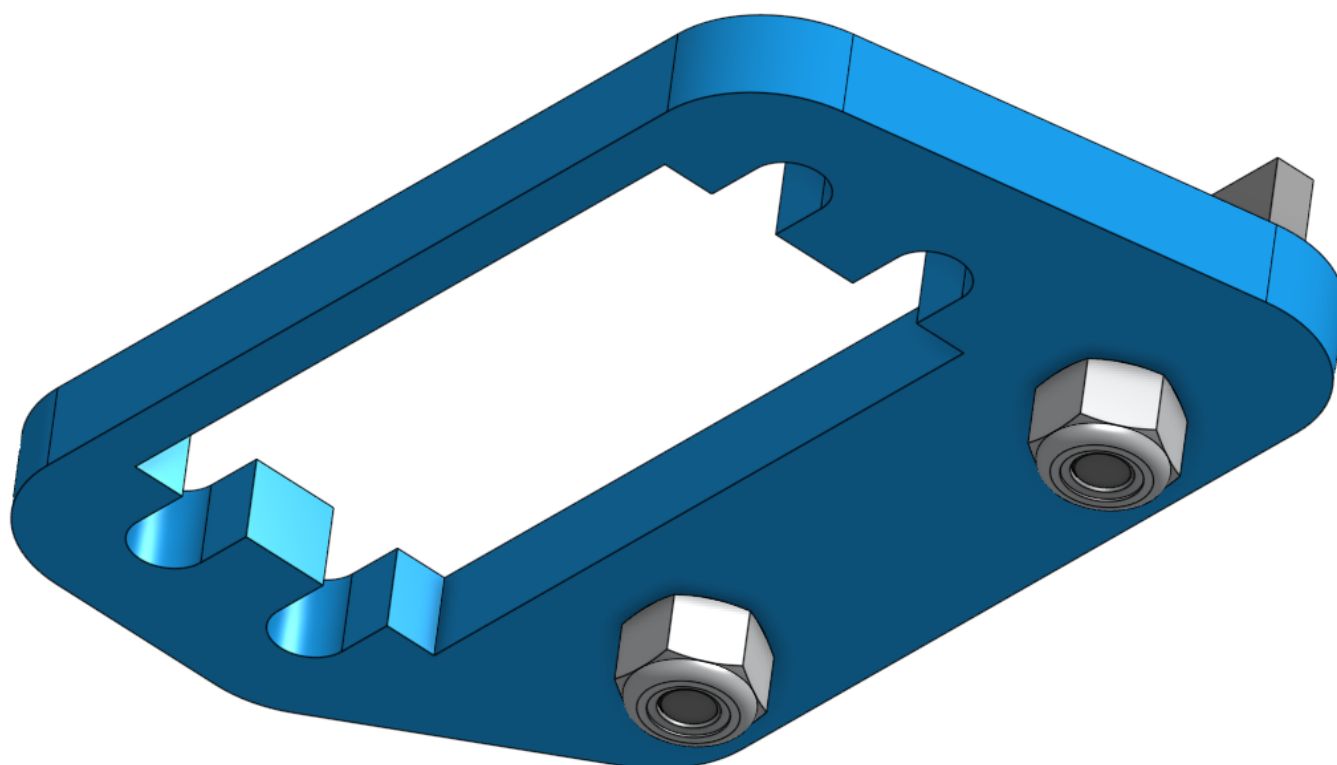
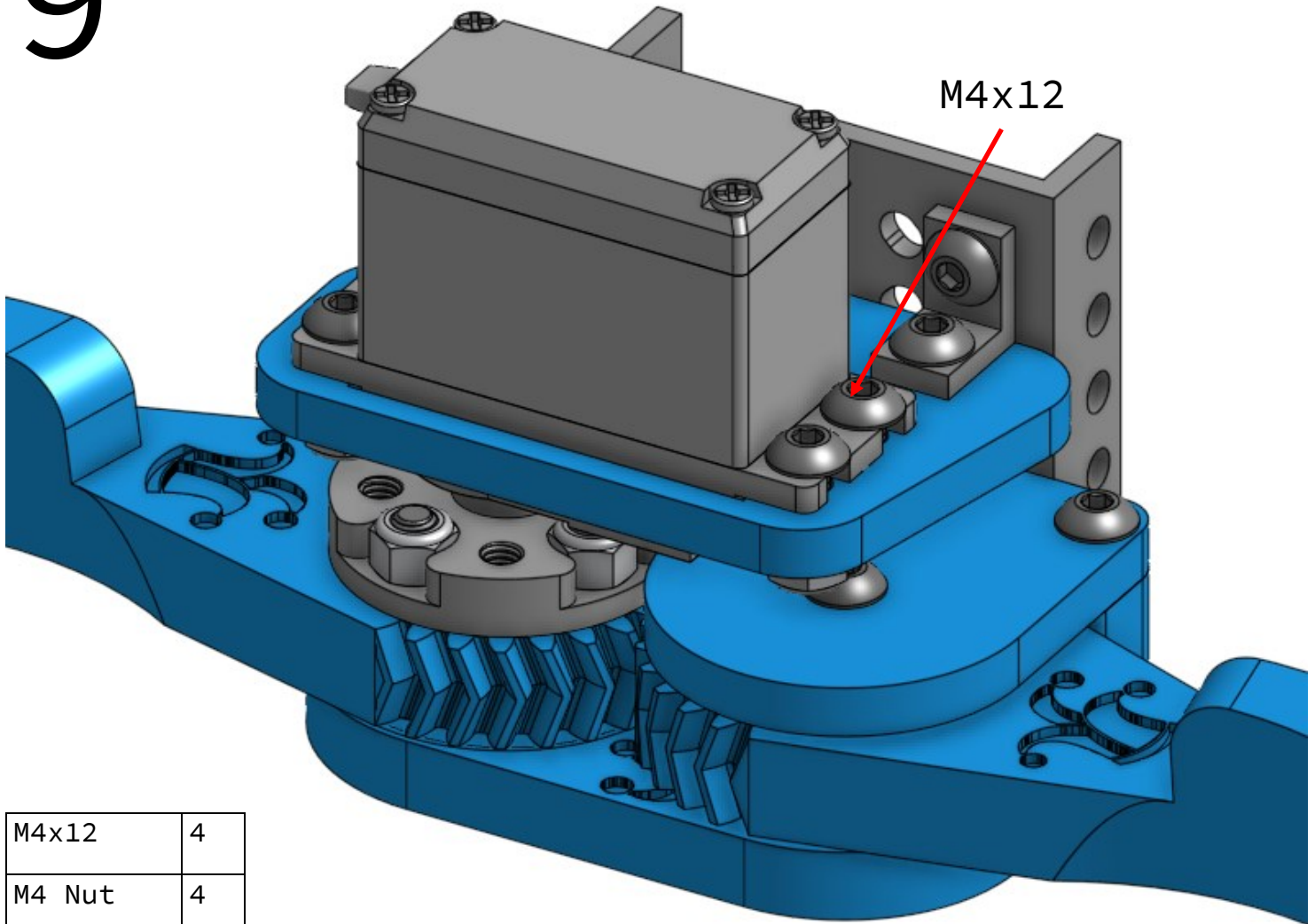| M4x10	2
M4 Nut	2

M4x10
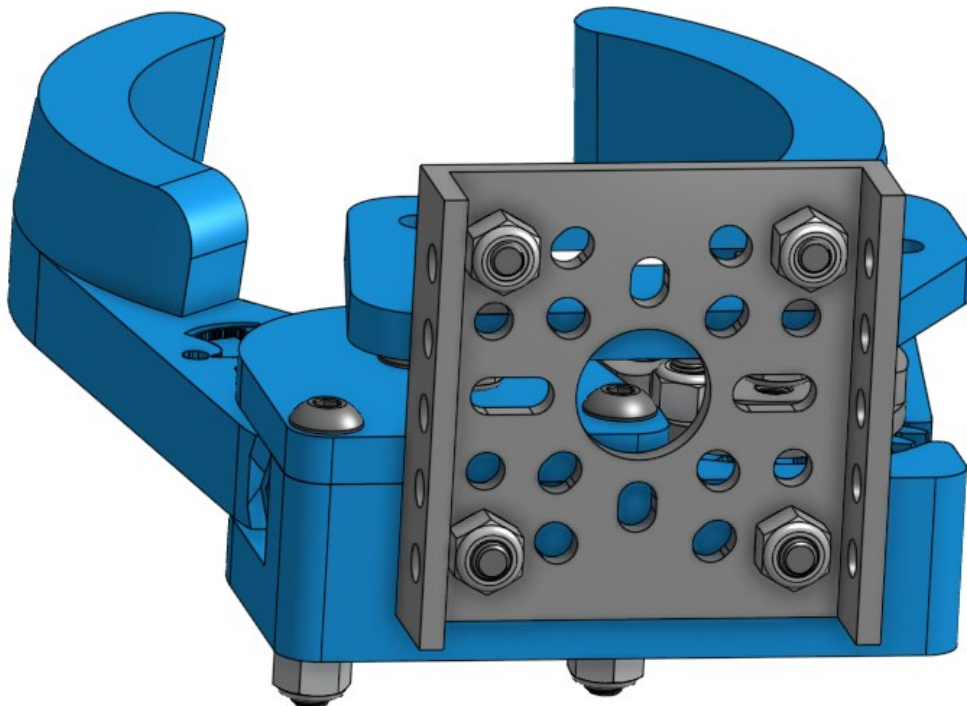
If using an Axon Mini/Mini+ servo, the "Axon Mini servo mount" must be used and be mounted upside down as pictured.

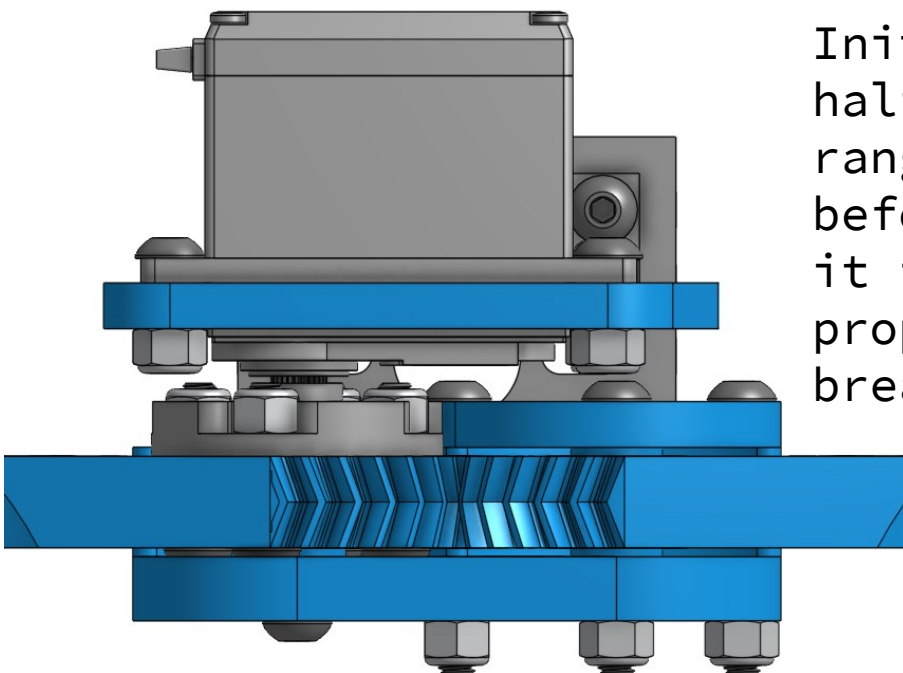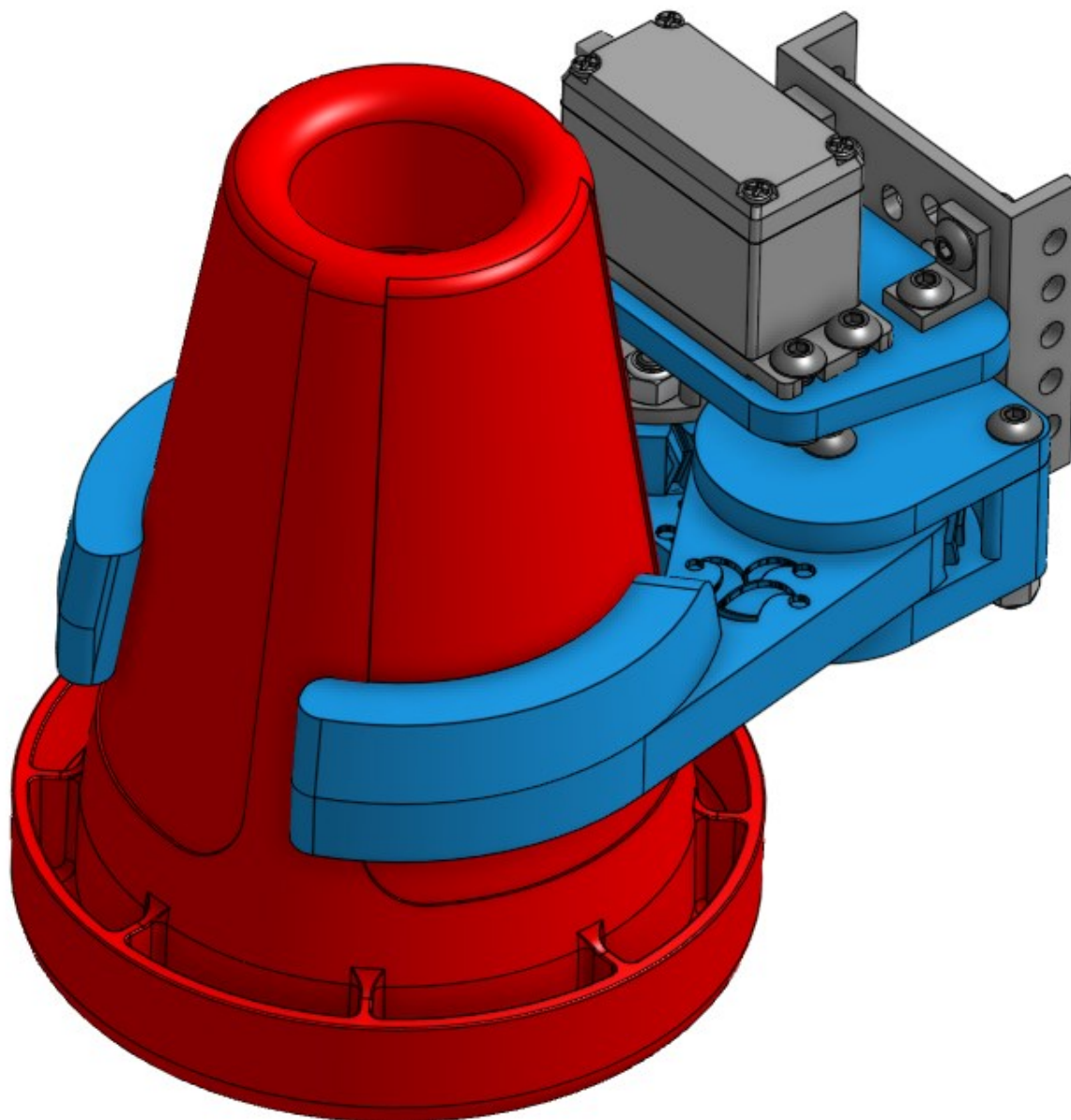Open arms all the way
before installing servo.

9
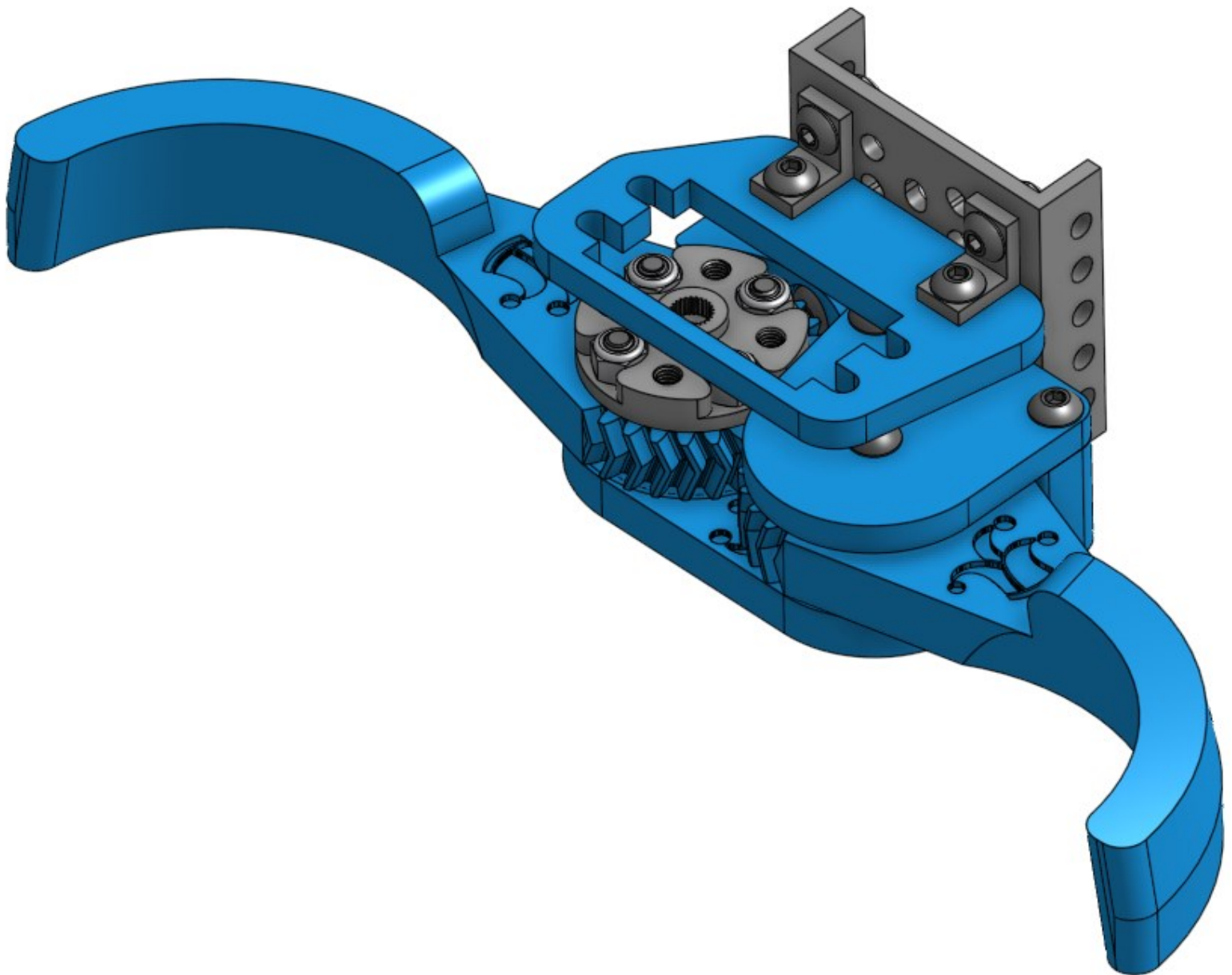
M4x12

M4x12	4
M4 Nut	4

CRITICAL NOTE:

Initialize servo to halfway through its range of motion (0.5) before installing. If it is not initialized properly, parts will break when it moves.

ADDITIONAL INFORMATION

CAD: https://cad.onshape.com/documents/129dc57b75a629234258d945/w/393048bd49f90455ff9c0a22/e/27d7fd42ed9d4c0cc4e530dd

CONTACT: G-Force#5900 on Discord

LATEST STLs and INSTRUCTIONS: https://github.com/The-Loony-Squad/PowerPlay-Claw