

Grippers Guide

HEW-DV4 robot arm



Hey There!

*HEW your friendly desktop
robot arm!*



BlueprintRobotics

Welcome & Thank you!

Hey there nice to meet 'HEW' Thank you for buying one of our products. We hope you enjoy using him as much as we do!

This assembly guide will help you build three of our robot grippers through this simple easy to follow visual steps guide. Pages 4 - 9 will guide you through how to assemble the SimpGrip gripper, pages 10 - 11 through the MegGrip gripper and pages 12 - 13 for the GoPro gripper.

Have your robot give you a helping hand with these great grippers to either pick and place your own parts, pass yourself tools, magnetically sort out your change, give you your keys, create create your own robotic camera, or personal programmable CCTV.

If you require any support or have any issues regarding our products you can contact us via E-mail at enquiries@blueprintrobotics.co.uk

Thank you & welcome to the world of robotics.

 /BlueprintRobotics  @BlueprintRobots

Safety & Disclaimer Information

HEW might be a fun gadget to play with but he's still a machine! Please read all the instructions carefully and take note of all the important information and warnings.

This product is not a toy, follow all warnings and always wear the appropriate PPE (Personal Protective Equipment) when using tools or any other product that could cause harm.

- This product is not suitable for children under three years of age.
- To be used under direct supervision of an adult
- Warning: some parts may have sharp edges.
- For Domestic user only

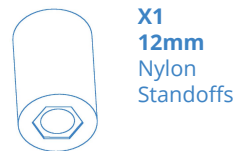
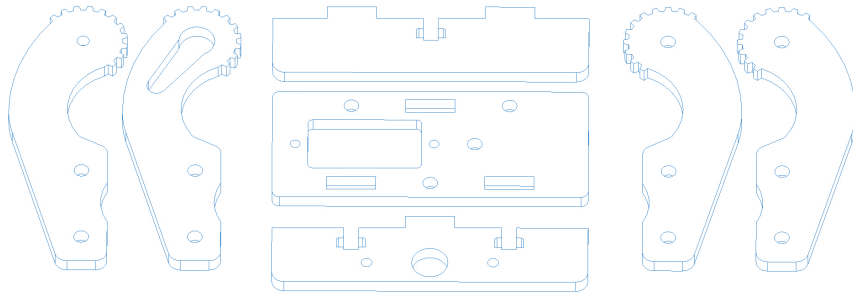
In no event shall our company be liable for any direct, indirect, punitive, incidental, special consequential damages to property or life arising out of, or connected with, the use or misuse of our products.

Remember Safety First.



SimpGrip Parts List

X1
Coloured Acrylic Set



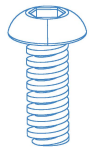
X1
12mm
Nylon
Standoffs



X2
M2 x8mm
Bolt



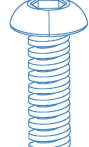
X2
Foam Pads



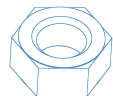
X7
M3 x8mm
Button Head
Bolt



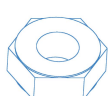
X1
M2.5 x8mm
Bolt



X1
M3 x10mm
Button Head
Bolt



X9
M3
Nut



X2
M2
Nut



X1
MG90D
Servo &
Accessories

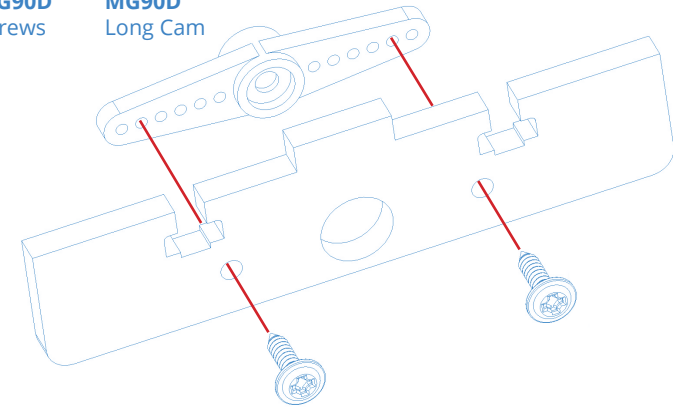


X1
Bush x3mm

Stage 1

X2
MG90D
Screws

X1
MG90D
Long Cam



Attach the arm mounting plate to the wrist servo.

Stage 2

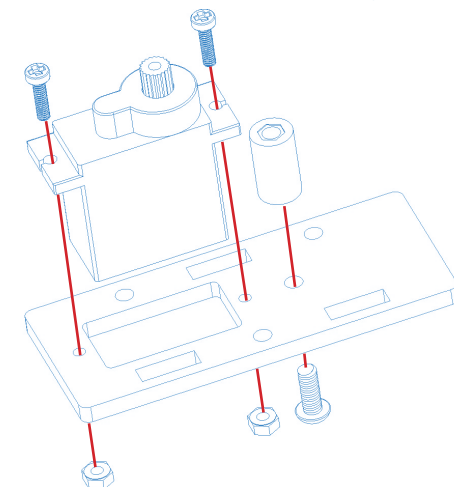
X1
MG90D
Servo

X2
M2 x8mm
Screws

X2
M2
Nuts

X1
M3 x8mm
Bolt

X1
12mm
Nylon Standoff

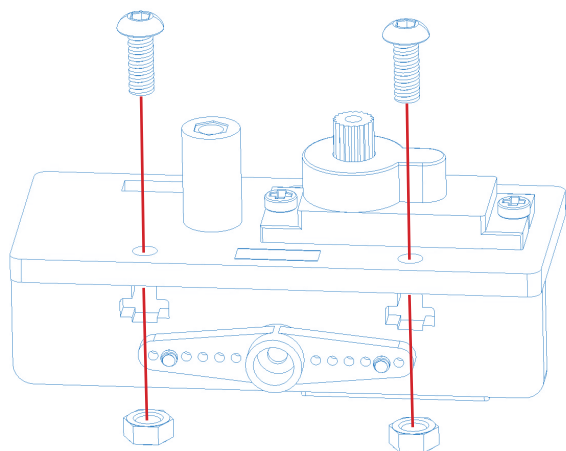


Tip: Ensure the servo fitted, is in the correct orientation as shown above.

Stage 3

X2
M3 x8mm
Bolts

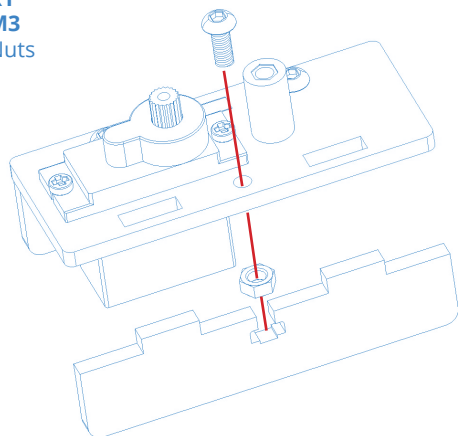
X2
M3
Nuts



Stage 4

X1
M3 x8mm
Bolts

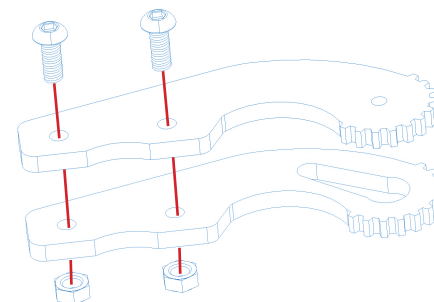
X1
M3
Nuts



Stage 5

X2
M3 x8mm
Bolts

X2
M3
Nuts

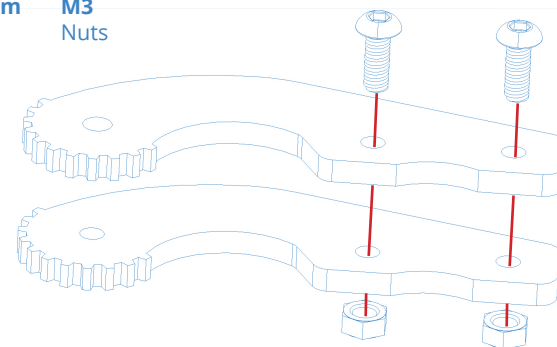


Tip: Ensure that both gripper finger gears align together and are fitted in the correct orientation as shown.

Stage 6

X2
M3 x8mm
Bolts

X2
M3
Nuts



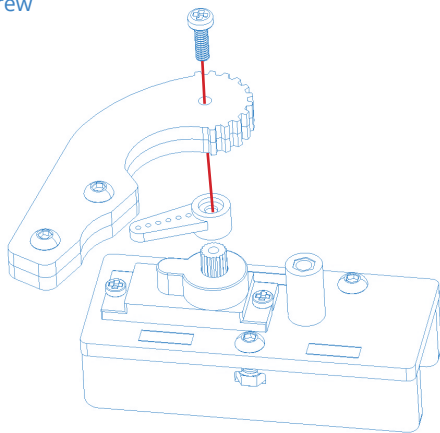
Tip: Ensure that both gripper finger gears align together and are fitted in the correct orientation as shown.

The finger with the larger hole should be placed on top. See Stage 8.

Stage 7

X1
MG90D
Short CAM

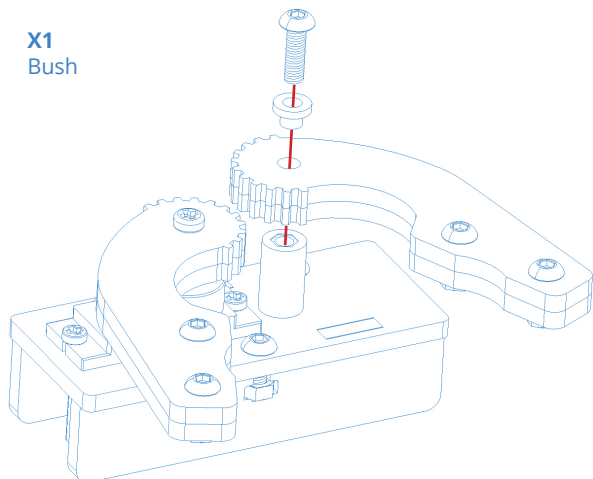
X1
M2.5 x8mm
Screw



Stage 8

X1
M3 x10mm
Bolts

X1
Bush

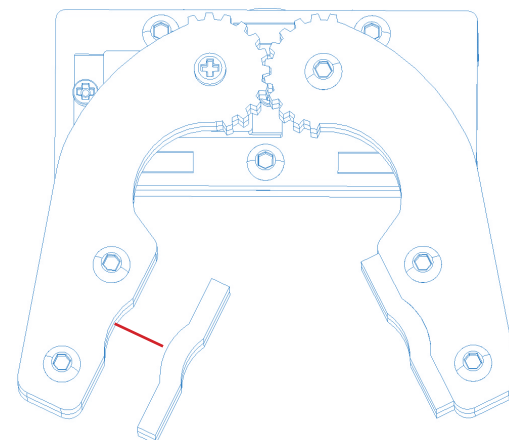


Tip: Adjust the M3 bolt until the gripper is flat against the standoff and can rotate easily.

Care Point: Use the M3 x10mm bolt

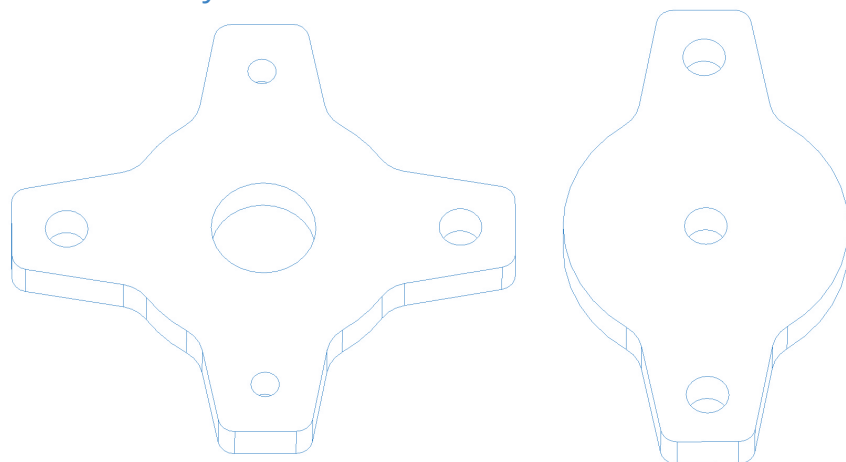
Stage 9

X2
Foam Pads

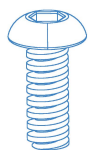


MagGrip Parts List

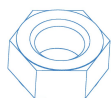
X1
Coloured Acrylic Set



X1
Electromagnet



X2
M3 x8mm
Button Head
Bolt

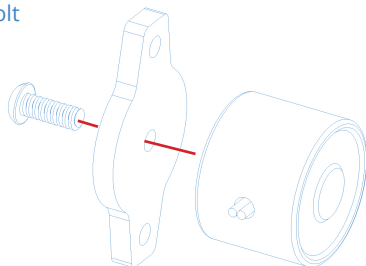


X2
M3
Nut

Stage 1

X1
Electromagnet

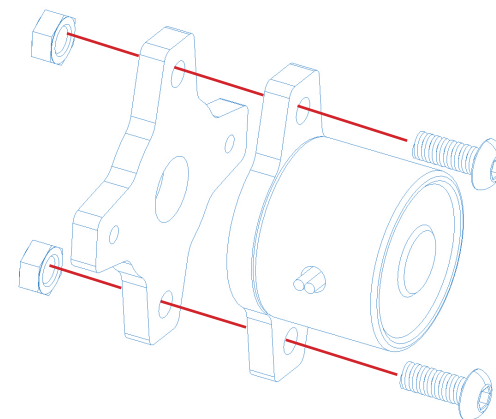
X1
M3 x8mm
Bolt



Stage 2

X2
M3 x8mm
Bolts

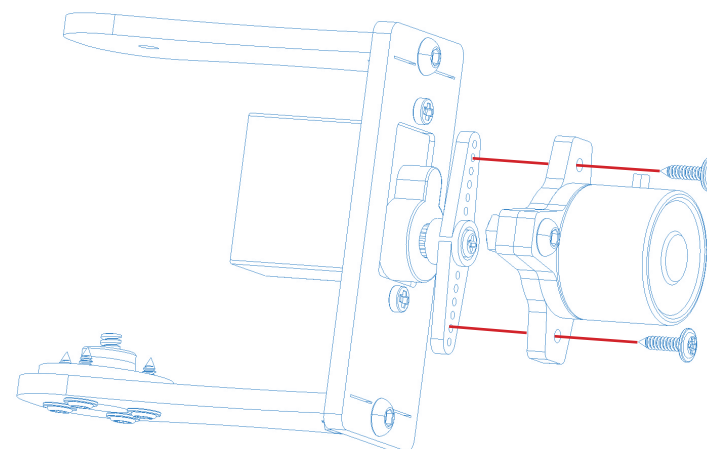
X2
M3
Nuts



Stage 3

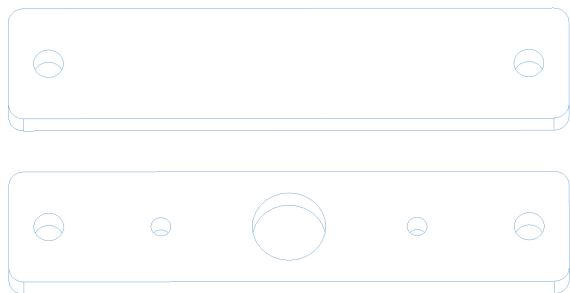
X2
MG90D
Screws

X1
MG90D
Long Cam

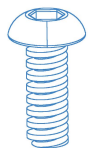


GoPro Gripper Parts List

X1
Coloured Acrylic Set



X2
24mm
Nylon
Standoffs



X4
M3 x8mm
Button Head
Bolt

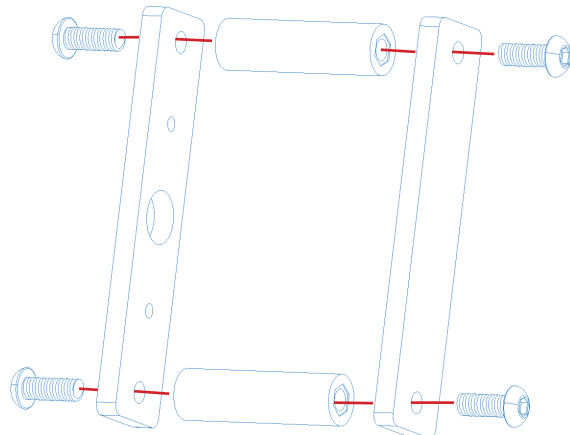


X2
Foam Pads

Stage 1

X2
24mm
Nylon Standoffs

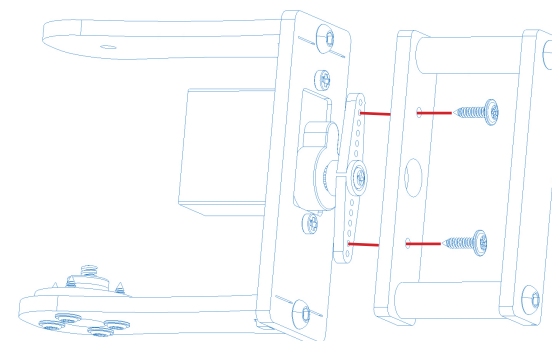
X4
M3 x8mm
Bolts



Stage 2

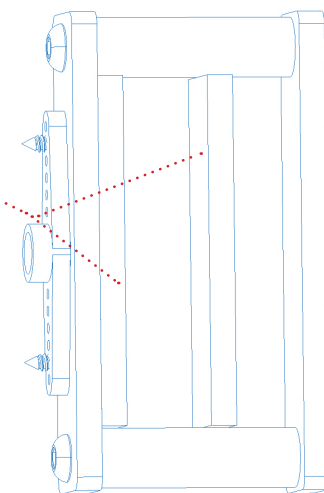
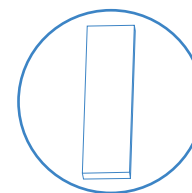
X2
MG90D
Bolt

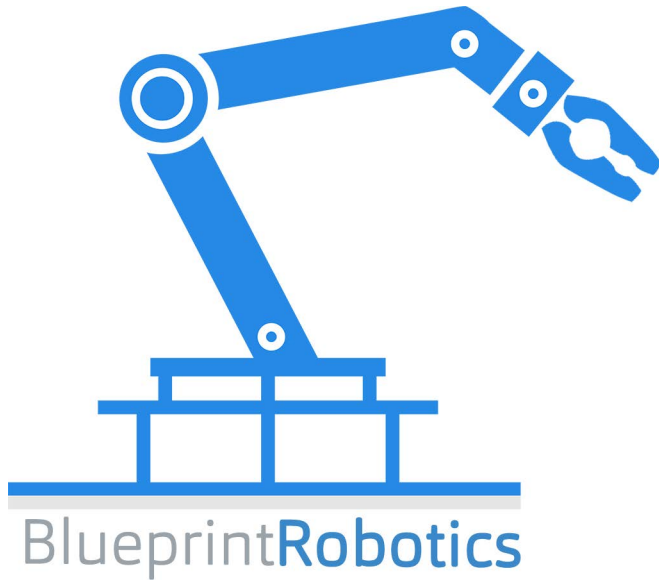
X1
MG90D
Long Cam



Stage 3

X2
Foam Pads





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