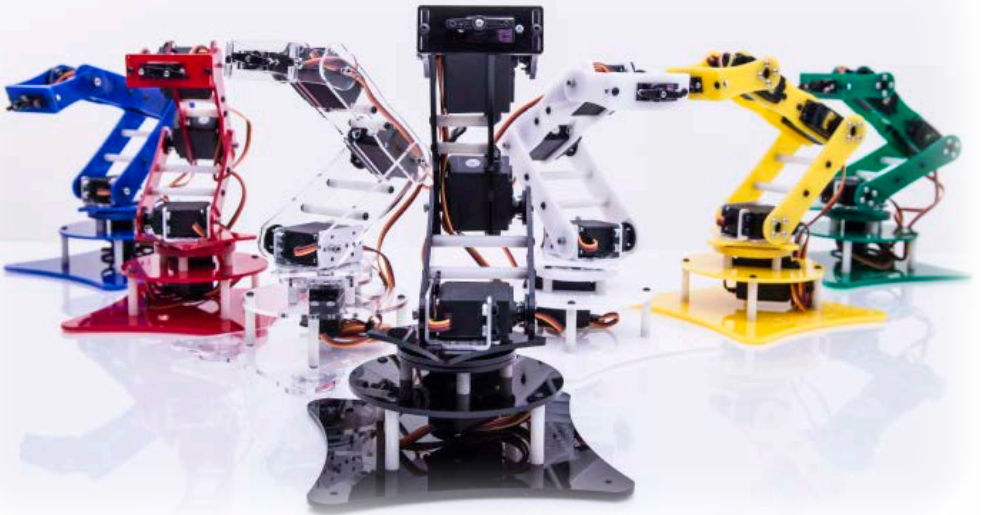


Assembly Guide

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 purchasing one of our HEW friends, we hope you enjoy using him as much as we do!

This assembly guide will help you build your very own friendly robot arm in just 19 steps! Simply follow this easy-to-use guide through the visual steps and you'll be ready in no time.

Hand out your own business cards, pick and place objects, play a game of chess or make some music, what will you create?

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.

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.



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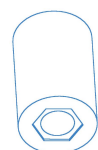
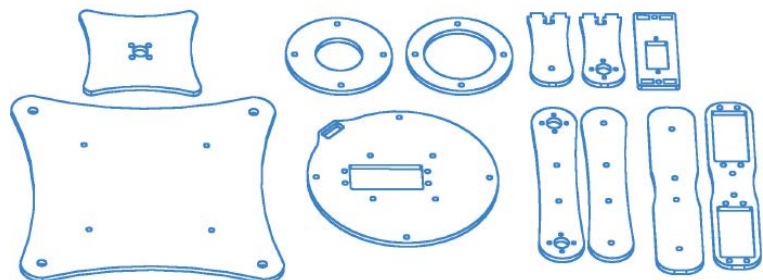


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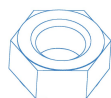


Parts List

X1
Coloured Acrylic Set



X4
11mm
Nylon
Standoffs



X18
M3
Nut



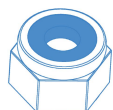
X1
Aluminium
Servo bracket



X2
27.5mm
Nylon
Standoffs



X2
M2
Bolt



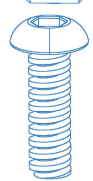
X3
M3
Nylon Locking
Nut



X4
30mm
Nylon
Standoffs



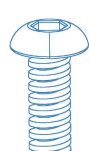
X2
M2
Nut



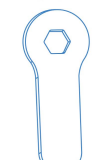
X3
M3 x10mm
Button Head
Bolt



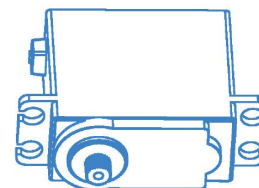
X2
51mm
Nylon
Standoffs



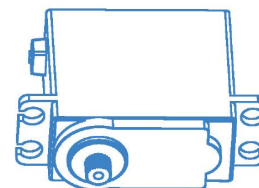
X46
M3 x8mm
Button Head
Bolt



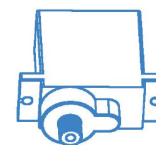
X1
Acrylic Lock
Nut Spanner



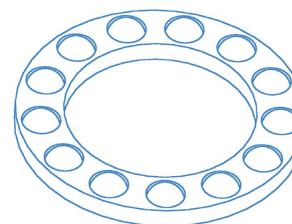
X2
MG-946
Includes:
Servo Arms & Screws
(Shoulder Servo)



X2
MG-995
Includes:
Servo Arms & Screws
(Base, Elbow & Wrist Pitch)



X1
MG-90D
Includes:
Servo Arms & Screws
(wrist roll servo)

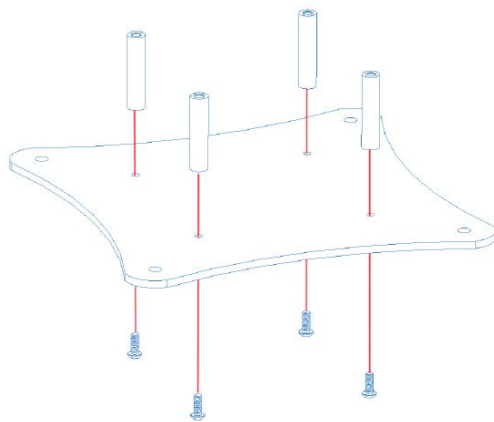


X1
27.3mm
Thrusy Racer Bearing

Stage 1

X4
M3 x8mm
Bolts

X4
30 mm
Nylon Standoffs

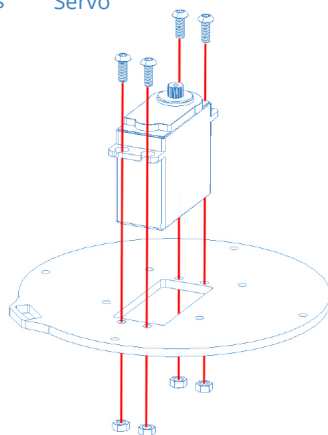


Stage 2

X4
M3 x8mm
Bolts

X4
M3
Nuts

X1
MG995
Servo

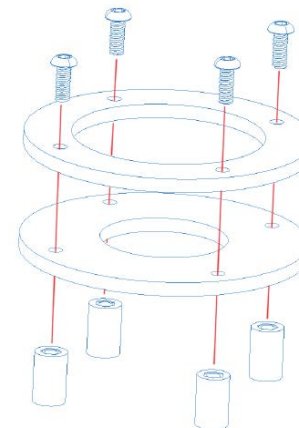


Tip: When mounting the servos loosley fit all bolts before tightening

Stage 3

X4
M3 x8mm
Bolts

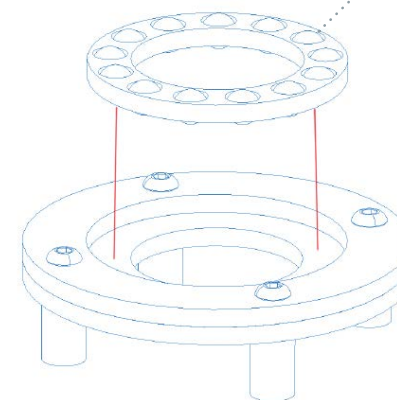
X4
11 mm
Nylon Standoffs



Stage 4

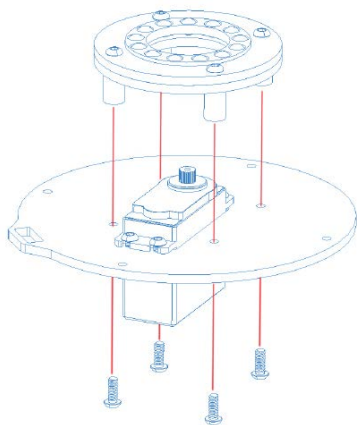
X1
27.3mm
Thrusy Racer Bearing

Bearing should rotate freely and easily



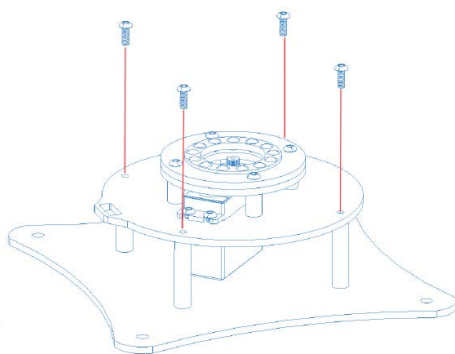
Stage 5

X4
M3 x8mm
Bolts



Stage 6

X4
M3 x8mm
Bolts

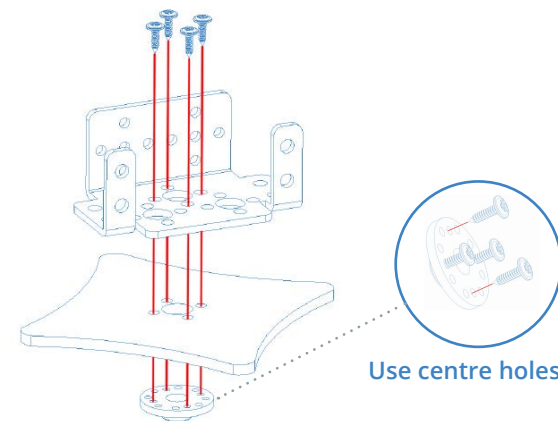


Stage 7

X4
MG995
Screws

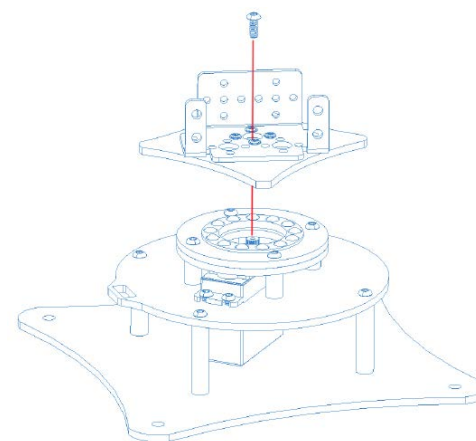
X1
Servo Cam

X1
Aluminium
Servo bracket



Stage 8

X1
M3 x8mm
Bolt



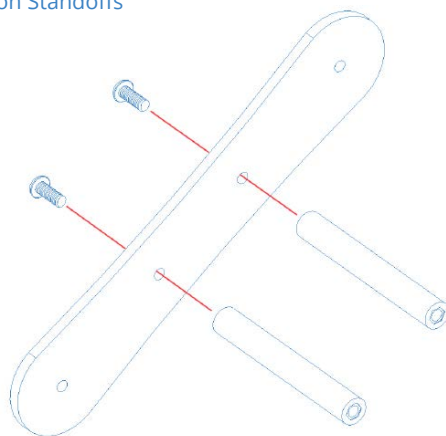
Tip: Do not over tighten, but ensure the platform is flat against the bearings but can rotate easily

Set servo to 0 degrees, see page 16

Stage 9

X2
M3 x8mm
Bolts

X2
51 mm
Nylon Standoffs



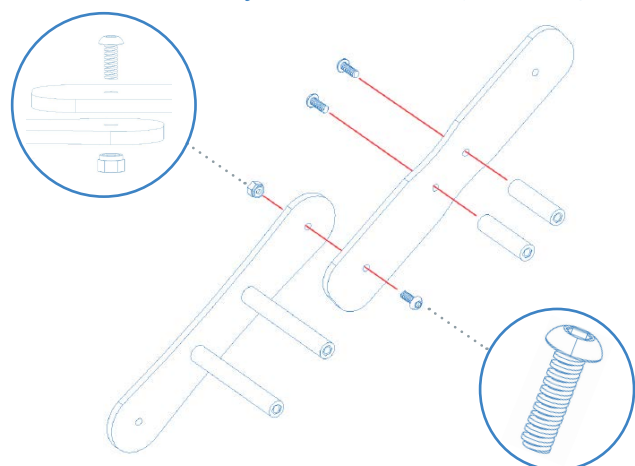
Stage 10

X2
M3 x8mm
Bolts

X1
M3 x10mm
Bolts

X2
27.5 mm
Nylon Standoffs

X1
M3
Nylon Locking Nut

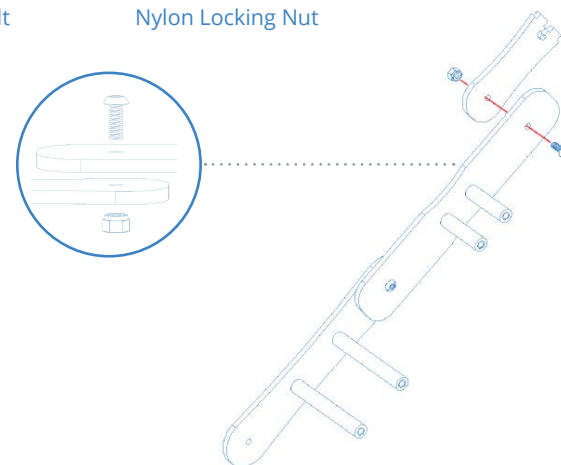


M3 x10mm Bolt

Stage 11

X1
M3 x10mm
Bolt

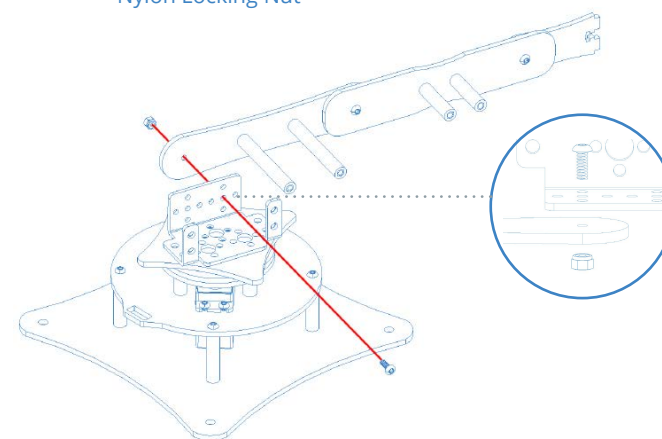
X1
M3
Nylon Locking Nut



Stage 12

X1
M3 x10mm
Bolt

X1
M3
Nylon Locking Nut



Stage 13

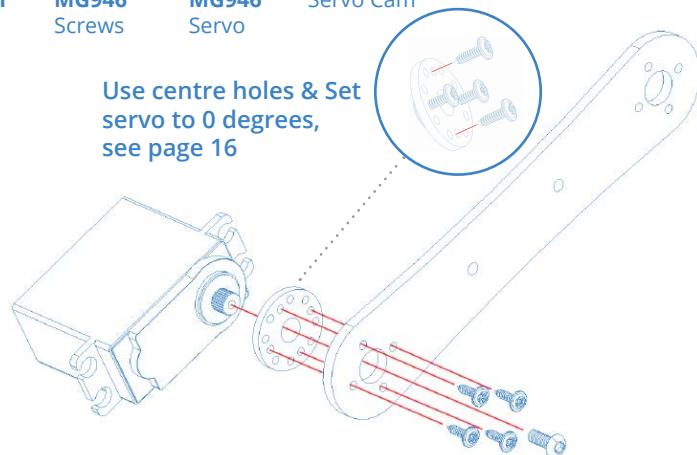
X1
M3 x8mm
Bolt

X4
MG946
Screws

X1
MG946
Servo

X1
Servo Cam

Use centre holes & Set
servo to 0 degrees,
see page 16



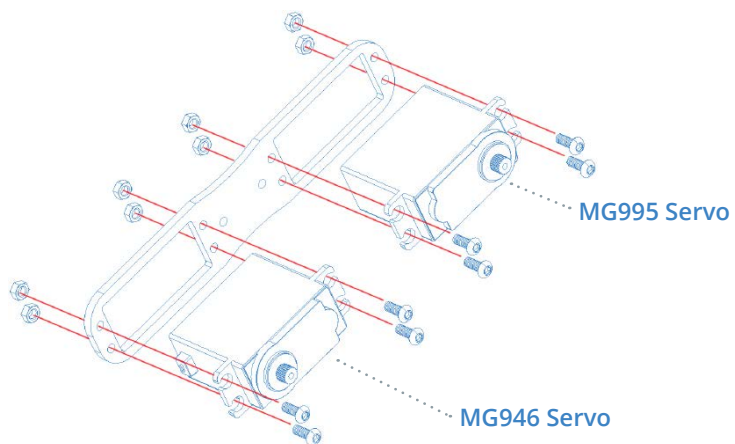
Stage 14

X8
M3 x8mm
Bolts

X8
M3
Nuts

X1
MG995
Servo

X1
MG946
Servo



Stage 15

X1
M3 x8mm
Bolt

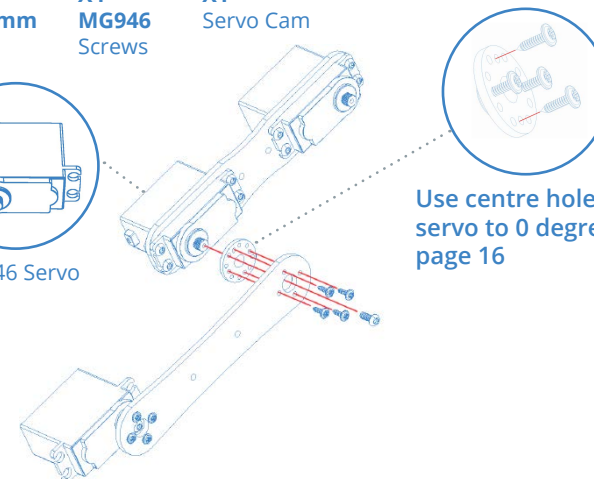
X4
MG946
Screws

X1
Servo Cam



MG946 Servo

Use centre holes & Set
servo to 0 degrees, see
page 16

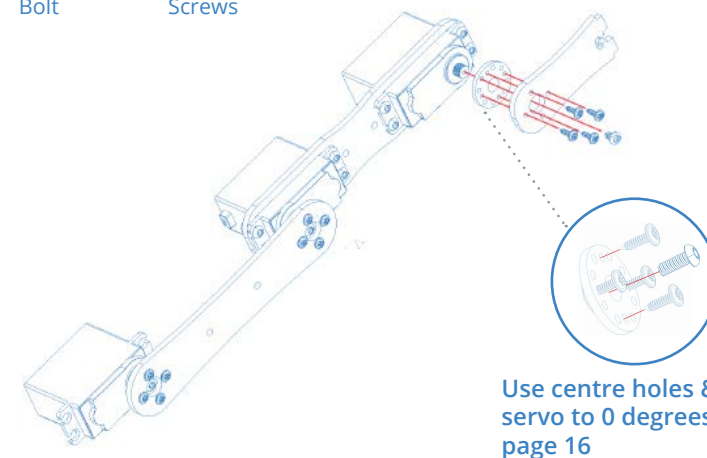


Stage 16

X1
M3 x8mm
Bolt

X4
MG995
Screws

X1
Servo Cam

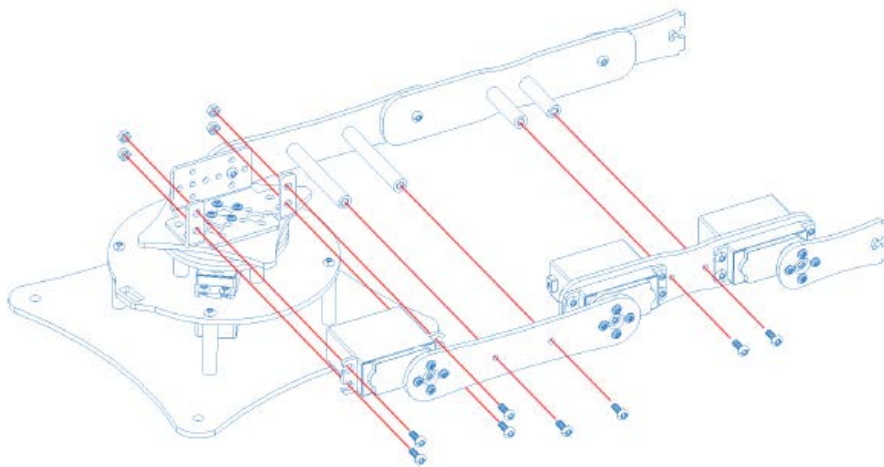


Use centre holes & Set
servo to 0 degrees, see
page 16

Stage 17

X8
M3 x8mm
Bolts

X4
M3
Nuts



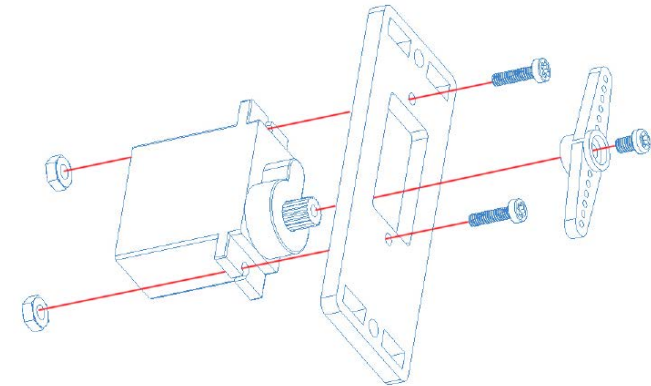
Stage 18

X2
M2
Bolts

X2
M2
Nuts

X1
MG90D
Servo

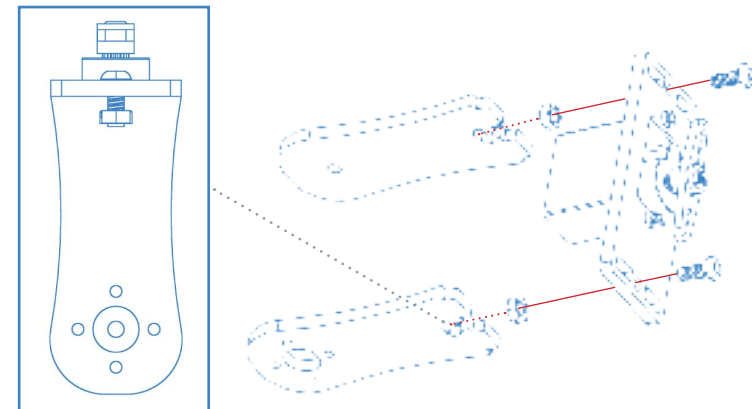
X1
MG90D
Screw



Stage 19

X2
M3 x8mm
Bolts

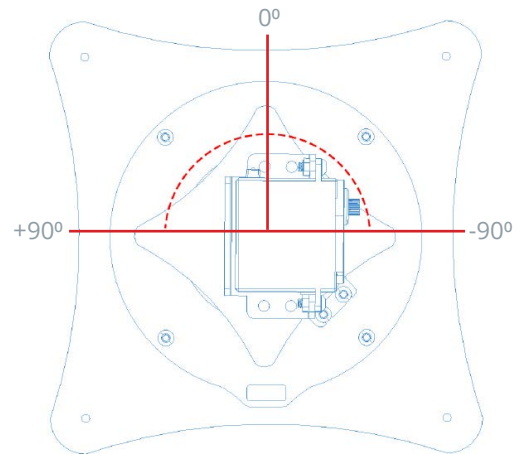
X2
M3
Nuts



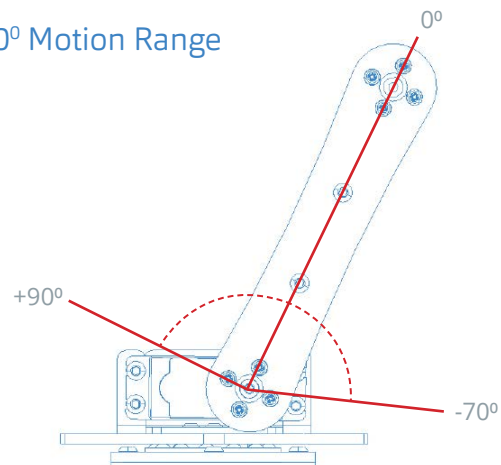
The nut sits inside the wrist LH & RH plates under a shoulder joint and the M3 bolt is fed through the top plate & between the shoulder joint.

Servo Range Positions

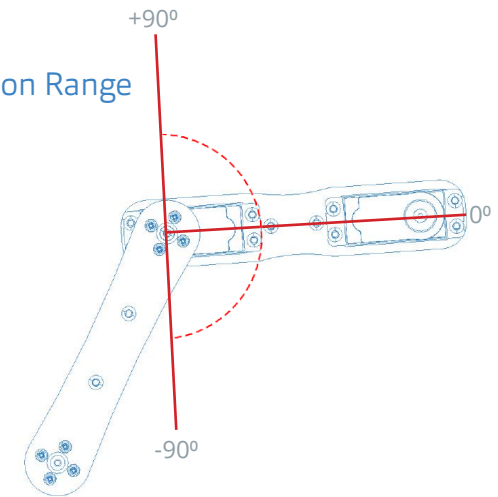
Base 180° Motion Range



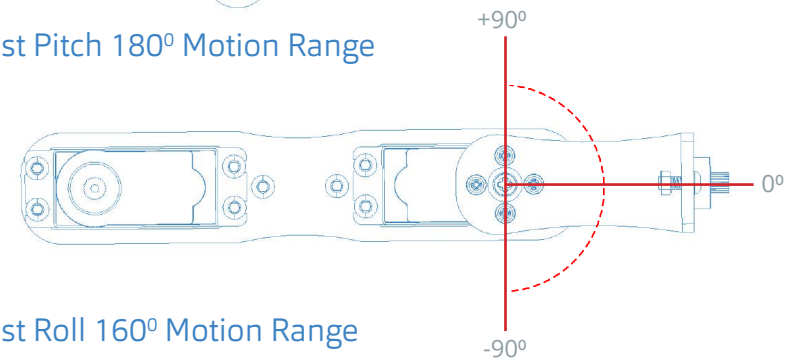
Shoulder 160° Motion Range



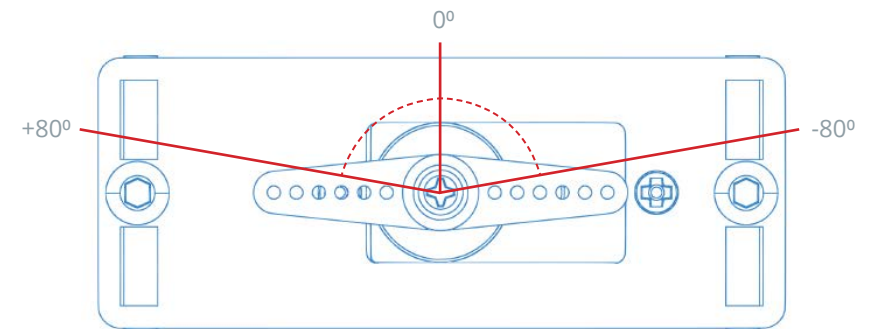
Elbow 180° Motion Range

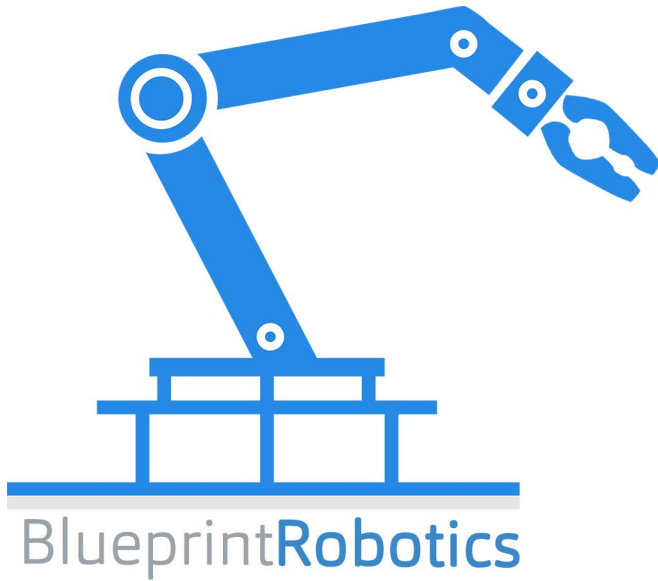


Wrist Pitch 180° Motion Range



Wrist Roll 160° Motion Range





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