

mGrip P4Y

QUICK START GUIDE



www.SoftRoboticsInc.com



IN YOUR KIT

(1) Pre-assembled 4 finger parallel gripper

(1) Soft Robotics Control Unit, Generation 2

63mm Robot Adapter

31.5mm Robot Adapter

(4) 5mm - 30mm spacers, in 5mm increments

10mm Air Fitting

Pneumatic Tubing

+ All other relevant hardware

For more information, visit:

softroboticsinc.com/mgrip-p4y

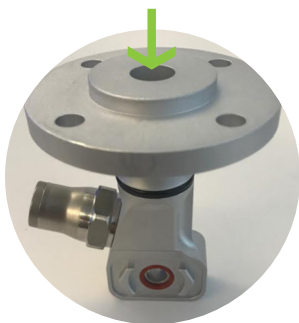
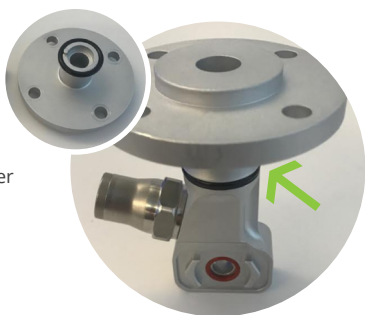


1

Install the Air Fitting onto the desired Parallel Hub. Torque to 6Nm.

2

Install the Robot Adapter onto the Parallel Hub.



3

Insert the M6 Screw to attach Robot Adapter through Parallel Hub. Torque this screw to 5Nm.

Note: Anti-seize is recommended for the M6 screw

4

Ensure O-Rings are installed on the Parallel Hub and did not come loose during shipping.





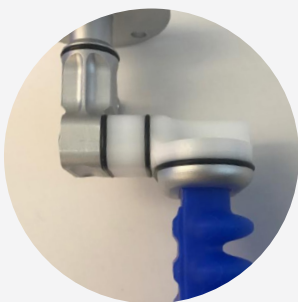
5

Install the desired Spacer onto the Parallel Hub (if required) by aligning the features and pressing firmly.

6

Install Finger Module onto the Spacer.

Note: Fingers can be mounted directly to the hub if spacers are not being used.



7

Insert M4 Hex Nut into Tie Rod

Note: Use the tie rod and spacer chart (located on the right panel of this guide) to identify which tie rod is best for your gripper. We recommend Anti-Seize gel onto Tie Rod before M4 Hex Nut is installed

8

Install the second Spacer onto the opposite side of the Parallel Hub by passing the tie rod through the center of the spacer and pressing firmly against the Parallel Hub.





9

Install the second Finger Module onto Spacer and through the tie rod

10

Install an M4 Sealing Cap Nut onto the end of the tie rod to secure the Spacers and Finger Modules in place. Torque Hex Nut to 2.2Nm

Note: We recommend Anti-Seize gel onto Tie Rod before M4 Sealing Cap is installed



11

Repeat steps 5-10 for remaining fingers

PARALLEL KIT SPACER AND TIE ROD CHART

Grip Spacing (mm)	Spacer (mm)	Tie Rod (mm)
40	0	85
50	5	95
60	10	105
70	15	115
80	20	125
90	25	135
100	30	145

GET TO KNOW THE TECHNOLOGY

mGrip is an on-demand, modular gripping system from Soft Robotics. The *mGrip* P4Y kit is our one-of-a-kind soft robotic gripping system, specifically designed for Yaskawa Robots. The *mGrip* P4Y kit enables adaptive handling of unstructured tasks and objects of varying size, shape and weight. This single, integrated, and easy-to-use solution is perfect for automating applications like:



ASSEMBLY



PICK & PLACE



PACKAGING

Reference list of parts: **see back**