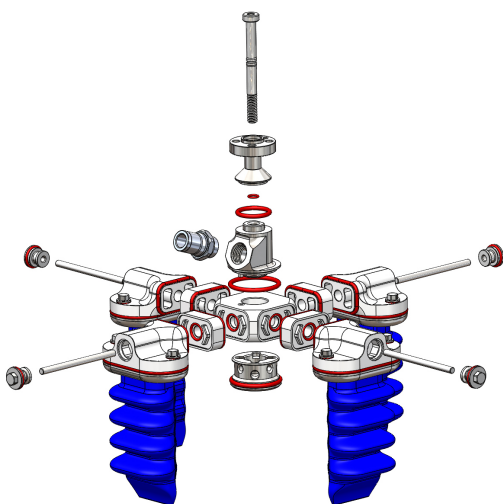


mGrip Circular Kit

QUICK START GUIDE



www.SoftRoboticsInc.com



IN YOUR KIT

All the components needed to build a circular tool with either 4 or 5 fingers

The ability to handle a wide set of geometries with a gripper spacing range of 65mm to 155mm



Circular 4 and 5 hubs

(5) 5mm-40mm spacers, in 5mm increments

(5) 4 accordion Soft Robotics finger modules

10mm Air Fitting

(2) Pneumatic Blanking Plates

All other relevant hardware

For more information, visit:

softroboticsinc.com/mgrip



1

Install the Lower Hub Mount into Circular Hub if not already installed.

2

Install the Upper Hub Mount into the Circular Hub.



3

Install the Circular Hub Screw into Robot Adapter.

Ensure the small O-Ring is installed properly on the Hub Screw after the screw is installed into the robot adapter



Note: We recommend grease for the O-Ring and Anti-Seize gel for the screw



4

Install the Robot Adapter onto the Upper Hub Mount. Torque the Circular Hub Screw to 5Nm.



5

Install the Air Fitting into the Upper Hub Mount and torque to 6Nm.

6

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



7

Install the Finger Module onto the Spacer.

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

8

Use the M4 Hex Nut to be tightened onto Tie Rod (after Anti-Seize applied) and then used to attached finger Module and Spacer (if required) to hub.



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 the Tie Rod before M4 Hex Nut is installed.

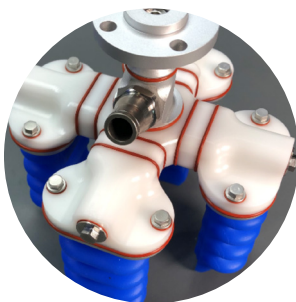


9

Torque the hex nut on the tie Rod to 2.2Nm.

10

Repeat steps 7 through 9 to secure other Finger Modules to the Circular Hub.



CIRCULAR KIT SPACER & TIE ROD CHART – 4 FINGER TOOL

Grip Spacing (mm)	Spacer (mm)	Tie Rod (mm)
65	0	50
75	5	55
85	10	60
95	15	65
105	20	70
115	25	75
125	30	80
135	35	85
145	40	90
Blanking Plate	-	25

CIRCULAR KIT SPACER & TIE ROD CHART – 5 FINGER TOOL


Grip Spacing (mm)	Spacer (mm)	Tie Rod (mm)
85	5	60
95	10	65
105	15	70
115	20	75
125	25	80
135	30	85
145	35	90
155	40	95
Blanking Plate	-	30



GET TO KNOW THE TECHNOLOGY

mGrip is an on-demand, modular gripping system from Soft Robotics. Developed with our award winning technology, *mGrip* brings infinite robotic grasping solutions to picking challenges that couldn't previously be automated. *mGrip* allows quick tool builds with limitless configurations and spacing options getting users operational quickly.

Each *mGrip* kit comes equipped with the components you need to build, validate and install production-ready systems in minutes. When paired with the Soft Robotics Control Unit, the *mGrip* gripper can cycle 3-4 times per second, keeping up with even the most demanding applications.



Reference list of parts: **see back**