

## THANK YOU FOR CHOOSING ROBOTIQ

This step-by-step guide will allow you to **install** and **use** your **2-Finger Gripper** on e-Series Universal Robots.



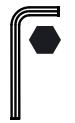
## 1.WHAT IS SUPPLIED?

Standard upon delivery of a Universal Robots kit:

**2-Finger Adaptive Gripper ..**(GRIPPER-2F85 or -2F140)  
**Gripper Coupling .....**(GRP-ES-CPL-062)  
**Connection Protector Kit.....**(GRP-ES-CPL-PRO)  
**Parallel Locking Pins.....**(AGC-PARA-KIT)  
**USB Stick**  
**Necessary Hardware**



## 2.TOOLS YOU NEED



2 mm  
Hex Key



3 mm  
Hex Key



4 mm  
Hex Key



## 3.GET THE LATEST

Visit: [support.robotiq.com](http://support.robotiq.com)

- Get the up-to-date instruction manual (PDF or web browser).
- Get the corresponding **Robotiq\_Grippers-X.X.X.urcap**.
- Download the .urcap file on a USB stick.

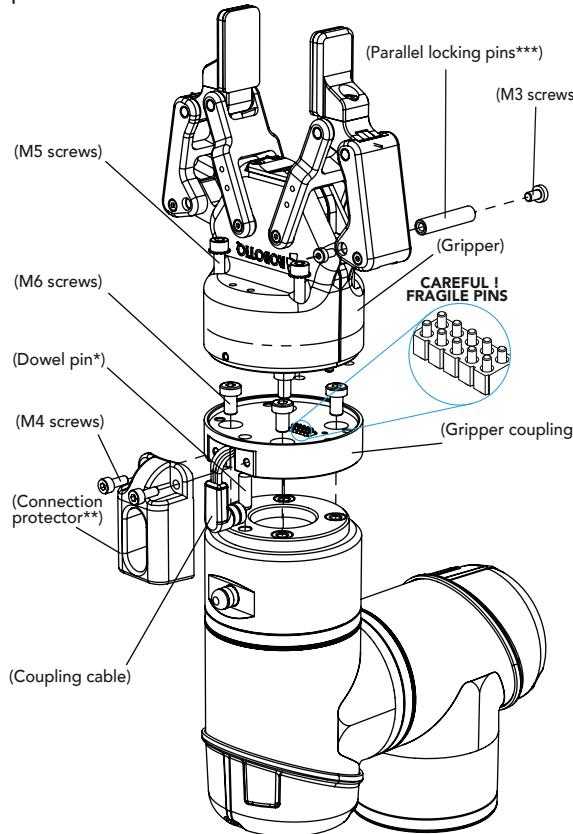


BEFORE OPERATING THE GRIPPER,  
PLEASE READ INSTRUCTION MANUAL.



## 4.MOUNTING

- Mount the coupling (GRP-ES-CPL-062) on your robot arm. Align with the provided dowel pin\*.
- Fix using the provided M6 screws (use of threadlocker is recommended).
- Mount the Gripper (GRIPPER-2F85 or -2F140) on the coupling. Align with the dowel pin\*.
- Fix using the provided M5 screws and lock washers.
- Plug the coupling's cable in the robot's wrist connector.
- Cover the connection using the protector and the provided M4 screws.



\* The dowel pin is meant to have a tight fit on the robot side and a slip fit on the effector side of the assembly.

\*\* Select the connection protector corresponding to your robot model in the GRP-ES-CPL-PRO kit.

\*\*\*Parallel locking pins can be installed to perform exclusively parallel grasps with the Gripper. See instruction manual for more details.



## 5.SOFTWARE INSTALLATION

- Have a USB stick that contains the **.urcap** file (step 3).
- Insert the USB stick in the robot's teach pendant.
- Tap the triple bar icon in the upper right corner and select the System menu on the left.
- Tap the URCaps submenu and then tap the + sign at the bottom of the screen.
- Open **Robotiq\_Grippers-X.X.X.urcap**.
- Tap the **Restart** button to activate the URCap.



## 6. ACTIVATE THE GRIPPER

### Gripper Activate Node

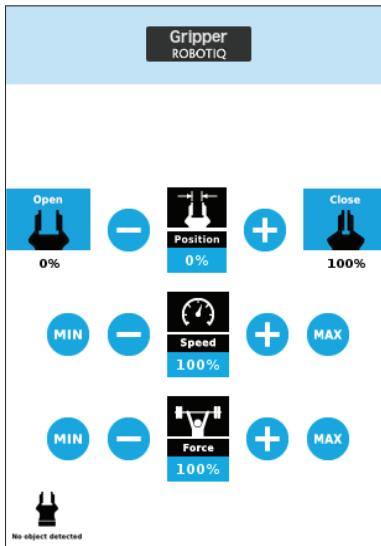
- Tap the **Installation** button at the top of the screen.
- Tap the **URCaps** button in the navigation pane on the left.
- Select **Gripper** in the dropdown list.
- Go to the **Dashboard** tab.
- Check the **Gripper is connected to the wrist** checkbox.
- Tap the **Scan** button to locate any connected Gripper.



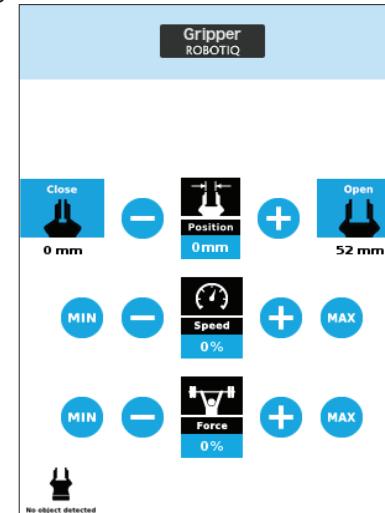
- Once the Gripper is located, tap the **Activate** button.



- Tap the **UR+** button to expand the Gripper Toolbar.
- The Gripper toolbar allows you to jog and test the Gripper. For more information, refer to the instruction manual.



- Tap the **UR+** button to expand the Gripper Toolbar. The Gripper position measurements can either display in millimeters or inches, depending on the PolyScope settings used.



- Depending on the PolyScope settings used, the Gripper position measurements can either display in metric or imperial units.



## 7. HOW TO CALIBRATE THE GRIPPER

- Go to the **Installation** tab, tap the URCaps menu on the left and select **Gripper**.
- Tap the **Calibration** tab.
- Tap the **Calibrate** button next to the Gripper icon to start the Calibration wizard.



- The wizard prompts the user to fully **close** the Gripper, regardless of the type of fingers/fingertips used.
- Measure the distance between the fingers/fingertips and enter the measurement in the appropriate box.
- Tap the **Continue** button.
- The user is then asked to fully **open** the Gripper.
- Measure the distance between the fingers/fingertips and enter the measurement in the appropriate box.
- Tap the **Continue** button to complete the Calibration wizard.

## 8. USE NODES TO PROGRAM WITH THE GRIPPER

### Gripper Node

- Tap the **Program** button at the top of the screen.
- Tap the **URCaps** button in the navigation pane on the left.
- Select **Gripper** in the dropdown list.
- Go to the **Command** tab to edit your Gripper's action.

### Grip Check Node

- Tap the **Program** button at the top of the screen.
- Tap the **URCaps** button in the navigation pane on the left.
- Select **Grip Check** in the dropdown list.
- Go to the **Command** tab to edit the node.
- Select a condition (If object is **detected** vs. If object is **not detected**).
- If applicable, enter the object dimension for validation.

New product has a 1-year warranty from the above date.  
Refer to your product instruction manual for details.

[support.robotiq.com](http://support.robotiq.com)

## 2F-85 & 2F-140 ADAPTIVE GRIPPERS

### QUICK START GUIDE

### For installation on e-Series Universal Robots

