

THANK YOU FOR CHOOSING ROBOTIQ

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



1.WHAT IS SUPPLIED?

Standard upon delivery of **AGC-ES-UR-KIT-85 or -140**

2F-85 Basic gripper unit.....(AGC-GRP-2F85)

or 2F-140 Basic gripper unit.....(AGC-GRP-2F140)

Gripper coupling(GRP-ES-CPL-062)

Connection protector.....(GRP-ES-CPL-PRO)

Required hardware



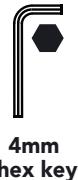
2.TOOLS YOU NEED



2mm
hex key



3mm
hex key



4mm
hex key



3.GET THE LATEST

Visit: support.robotiq.com

DOWNLOADING THE URCAP

1. Go to **Select brand > Universal Robots > 2F-85 and 2F-140 Grippers > Software > Gripper Software.**
2. Select **DOWNLOAD ZIP**.
3. Save the ZIP file **UCG-X.X.X** to a USB stick.

DOWNLOADING THE INSTRUCTION MANUAL

Go to **Select brand > Universal Robots > 2F-85 and 2F-140 Grippers > Documents > Gripper Instruction > Download PDF.**

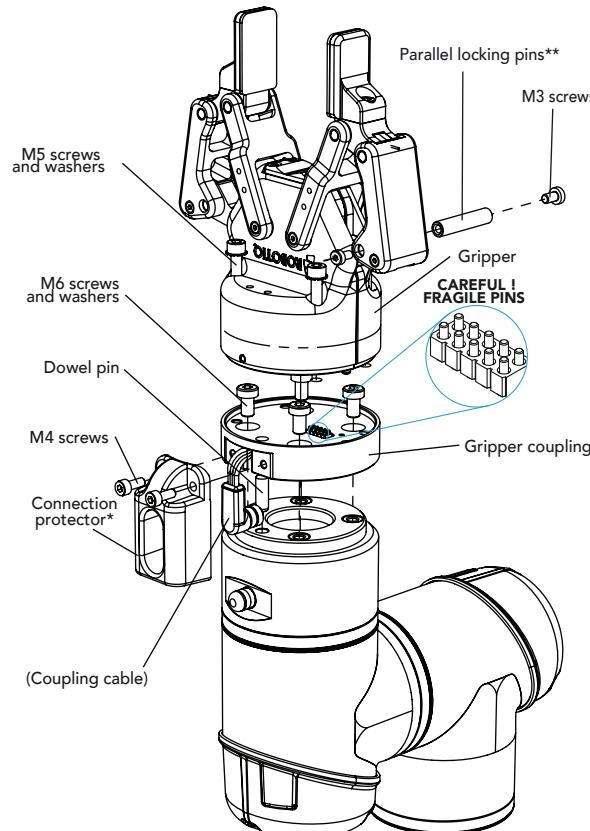


BEFORE OPERATING THE GRIPPER, PLEASE READ
YOUR INSTRUCTION MANUAL.



4.MOUNTING

- Mount the coupling on your robot arm. Align with the provided dowel pin.
- Secure using the provided M6 screws and tooth lock washers
- Mount the Gripper on the coupling. Align with the dowel pin.
- Secure using the provided M5 screws and tooth lock washers.
- Plug the coupling's cable in the robot's wrist connector.
- Cover the connection using the protector and the provided M4 screws.



* 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 (section 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.

| | | |
|---|---------------|-------------|
| Dashboard | Configuration | Calibration |
| <input checked="" type="checkbox"/> Gripper cable is connected to the wrist ⚠ On first installation: go to General >Tool IO > Controlled by "Robotiq_Grippers" <input type="checkbox"/> Limit gripper current  | | |

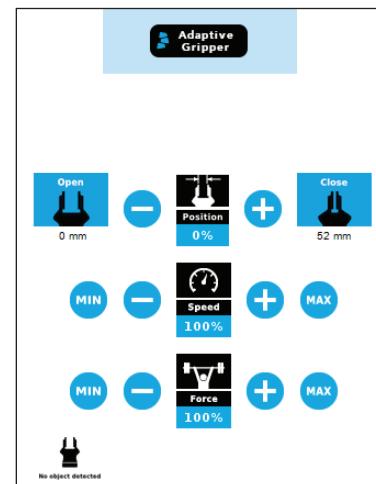
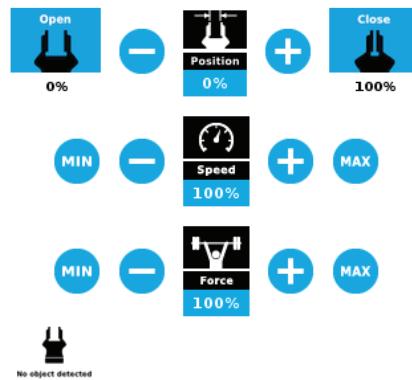
- Once the Gripper is located, tap the **Activate** button.

| | | |
|---|---------------|-------------|
| Dashboard | Configuration | Calibration |
| <input checked="" type="checkbox"/> Gripper cable is connected to the wrist ⚠ On first installation: go to General >Tool IO > Controlled by "Robotiq_Grippers" <input type="checkbox"/> Limit gripper current   Not activated  Change ID  Activate  E-Open  E-Close <input checked="" type="checkbox"/> Show Gripper Toolbar | | |

- 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.

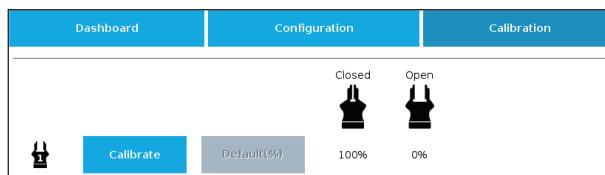


- Tap the **UR+** button to expand the Gripper Toolbar. Depending on the PolyScope settings used, the Gripper position measurements can either display in metric or imperial units.



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.

This product is under a 1-year warranty.
Refer to your product instruction manual for details.

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November 2021
X-990037-B



2F-**85**
2F-**140**

QUICK START GUIDE

For installation on
e-Series
Universal Robots



X-990037-B