

THANK YOU FOR CHOOSING ROBOTIQ

This step-by-step guide will allow you to **install** and **use your Hand-E or Hand-E P7L Gripper** on e-Series Universal Robots.



1. WHAT IS SUPPLIED?

Standard upon delivery of a Universal Robots kit (Hand-E):

Hand-E (HND-GRP)
Gripper Coupling (GRP-ES-CPL-077)
Fingertip Starting Kit (HND-TIP-START-KIT)
Necessary Hardware

Standard upon delivery of a Universal Robots kit (Hand-E P7L):

Hand-E 7PL (HND-P7L-UR-KIT)
Gripper Coupling (GRP-ES-CPL-077)
Fingertip Starting Kit (HND-TIP-START-KIT)
Necessary Hardware

For UR20 & UR30, the adapter plate ACC-APL-UR20 is required.



2. TOOLS YOU NEED



3 mm
Hex Key



4 mm
Hex Key



3. GET THE LATEST

Visit: 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.

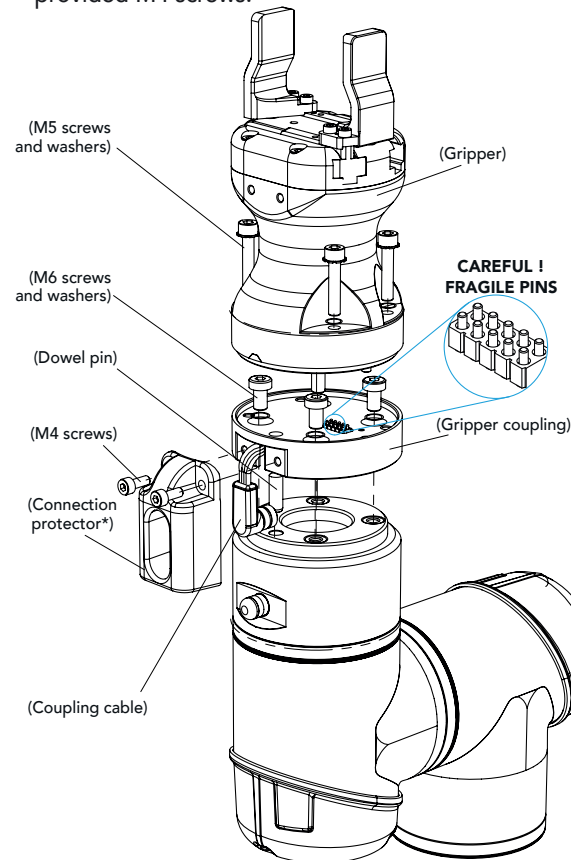


**PLEASE READ THE INSTRUCTION MANUAL
BEFORE OPERATING THE GRIPPER.**



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.



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.



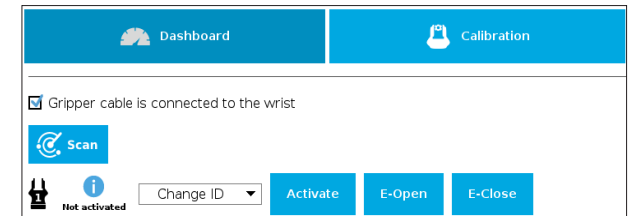
6. ACTIVATE THE GRIPPER

Gripper Activate Node

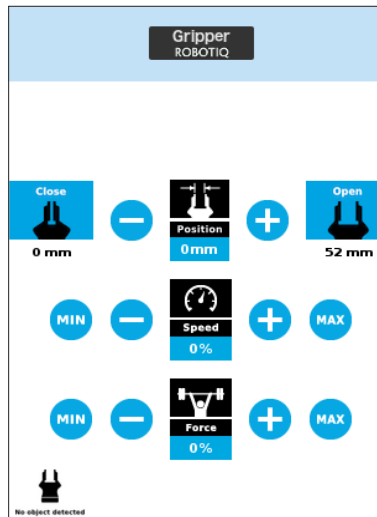
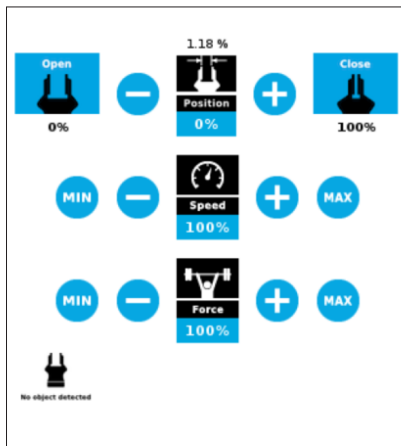
- Tap the **Installation** button at the top of the screen.
- Tap the **URCaps** button in the navigation pane on the left.
- Select **Gripper** in the dropdown list.
- Go to the **Dashboard** tab.
- Check the **Gripper is connected to the wrist** checkbox.
- Tap the **Scan** button to locate any connected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



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

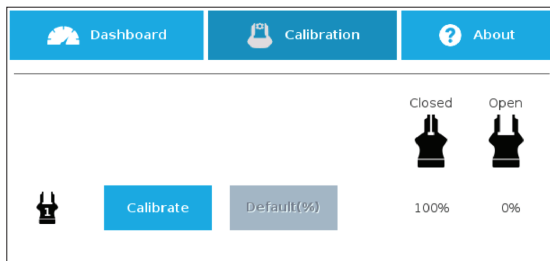


- Tap the **UR+** button to expand the Gripper Toolbar.
- The Gripper toolbar allows you to jog and test the Gripper. For more information, refer to the instruction manual.



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.
- 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.



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.



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HAND-E HAND-E P7L

QUICK START GUIDE

For installation on
**e-Series
Universal Robots**



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