THANK YOU FOR CHOOSING ROBOTIQ

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

1.WHAT IS SUPPLIED?

Standard upon delivery of a Universal Robots kit:

Hand-E ....(HND-GRP-001)
Gripper Coupling ....(GRP-ES-CPL-062)
Fingertip Starting Kit......................(HND-TIP-START-KIT)
Connection Protector Kit....................(GRP-ES-CPL-PRO)
USB Stick
Necessary Hardware

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**.
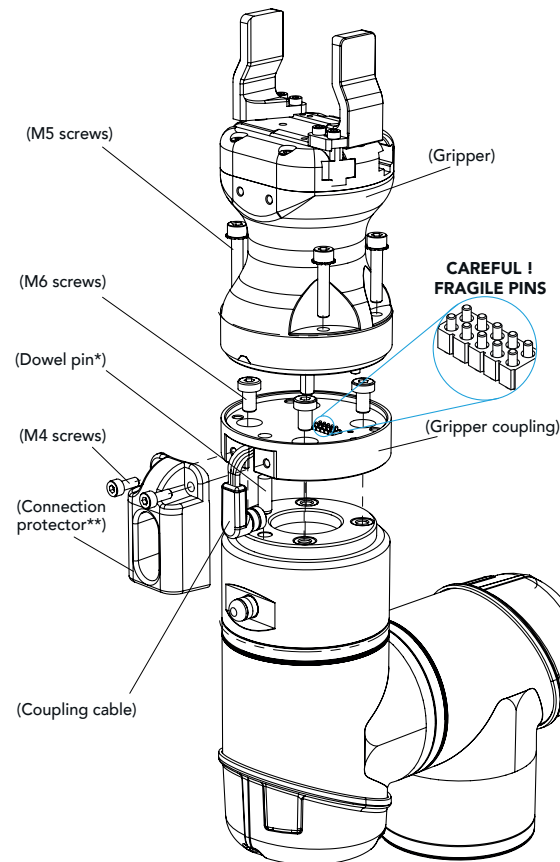• Download the .urcap file on a USB stick.

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

4.MOUNTING

• Mount the coupling (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 (HND-GRP-001) on the coupling. Align with the dowel pin*.

• Fix using the provided M5 screws.

• Plug the coupling's cable in the robot's wrist connector.

• Cover the connection using the protector and the provided M4 screws.

(M5 screws)
(Gripper)
(M6 screws)
CAREFUL ! FRAGILE PINS
(Dowel pin*)
(M4 screws)
(Gripper coupling)
(Connection protector**)
(Coupling cable)

* 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.

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.
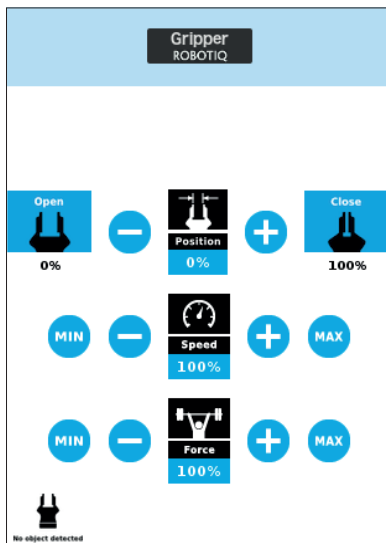
6. ACTIVATE THE GRIPPER

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.
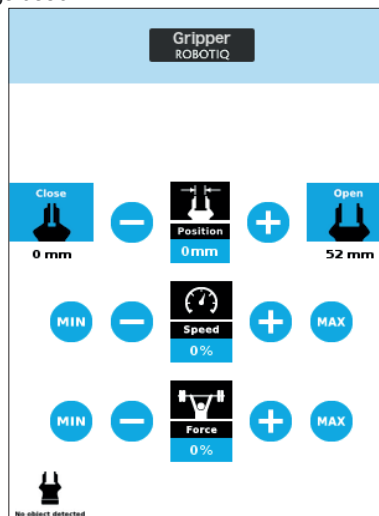• Tap the **Scan** button to locate any connected Gripper.

• Once the Gripper is located, tap the **Activate** button.
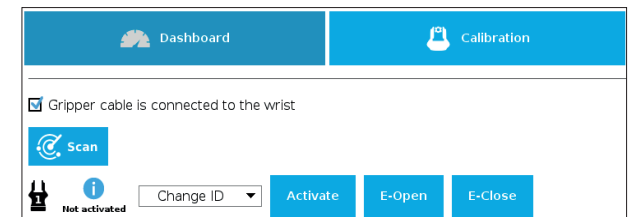
• Tap the **UR+** button to expand the Gripper Toolbar.

• 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.

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

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.

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HAND-E

QUICK START GUIDE

For installation on e-Series Universal Robots