THANK YOU FOR CHOOSING ROBOTIQ

This step-by-step guide will allow you to **install** and **test your Hand-E Gripper** on Universal Robots with a robot controller version CB3 and later.



1.WHAT IS SUPPLIED?

Standard upon delivery of a Universal Robots kit:

Hand-E	(HND-GRP-001)
Gripper Coupling	(GRP-CPL-062)
Fingertip Starting Kit	(HND-TIP-START-KIT)
High-Flex Device Cable	(CBL-COM-2065-10-HF)
USB to RS485 Adapter	(ACC-ADT-USB-RS485)
USB Stick	
Necessary Hardware	





2 mm Slotted Screwdriver ≝ 4 mm Hex Key

3.GET THE LATEST

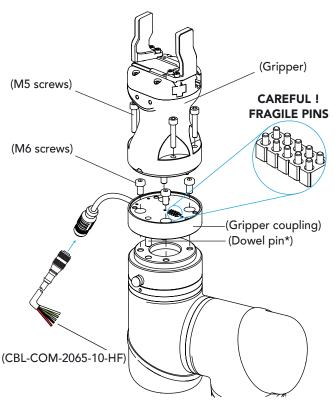
Visit: support.robotiq.com

- 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.





- Mount the coupling (GRP-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 device cable (CBL-COM-2065-10-HF) into the Gripper's pigtail cable and fix the cable along the robot arm using a cable routing system.



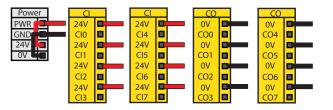
*The dowel pin is meant to have a tight fit on the robot side and a slip fit on the effector side of the assembly.



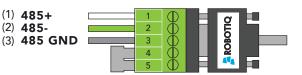
LEAVE ENOUGH EXCESS CABLE TO ALLOW FULL ROBOT MOVEMENT.



- The red (24V) and black (0V) wires of the device cable (CBL-COM-2065-10-HF) provide power to the Gripper.
- \bullet Connect the red wire to a 24V pin.
- Connect the black wire to a 0V pin.



• Connect the communication wires in the USB converter (ACC-ADT-USB-RS485) as shown.



Pin	Signal Name	CBL-COM-2065-10-HF High-Flex Device Cable
1	485 + (A)	WHITE
2	485 - (B)	GREEN
3	485 GND	SHIELD

• Connect the USB converter to the UR controller.



6.SOFTWARE INSTALLATION

- Have a USB stick that contains the .urcap file (step 3).
- Insert the USB stick in the robot's teach pendant.
- Tap Setup Robot and then URCaps Setup.
- Tap the + sign.
- Open Robotiq_Grippers-X.X.X.urcap.
- Tap the **Restart** button to activate the URCap.
- The Gripper toolbar button will display a short time after the installation of the software is completed.





- From a robot program, go to the **Installation** tab and select **Gripper** in the left pane.
- 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.

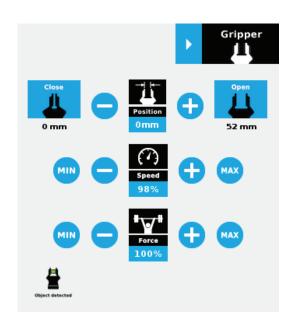


8. TEST AND JOG THE GRIPPER

- Tap the **Gripper** button to expand the Gripper toolbar.
- Tap **Activate** to initialize the Gripper and access the toolbar.



• The Gripper toolbar allows you to jog and test the Gripper. For more information, refer to the instruction manual.



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

9. USE NODES TO PROGRAM WITH THE GRIPPER

Gripper Node

- From your robot program, go to the **Structure** tab.
- Go to the **URCaps** tab.
- Tap the **Gripper** button.
- Go to the **Command** tab to edit your Gripper's action.

Grip Check Node

- From your robot program, go to the **Structure** tab.
- Go to the **URCaps** tab.
- Tap the **Grip Check** button.
- 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 CB-Series Universal Robots

