#### THANK YOU FOR CHOOSING ROBOTIQ

This step-by-step guide will allow you to **install** and **test your 2-Finger Gripper** on Universal Robots with a CB3 controller\*.

\*For installation with a Universal Robots CB2 controller, refer to the instruction manual.



# 1.WHAT IS SUPPLIED?

Standard upon delivery of a Universal Robots kit:

| 2-Finger Adaptive Gripper | (AGC-GRP-002 or -140) |
|---------------------------|-----------------------|
| Gripper Coupling          | (AGC-CPL-062-002)     |
| Gripper Fingertips        | (AGC-TIP-204-002)     |
| High-Flex Device Cable    | (CBL-COM-2065-10-HF)  |
| USB to RS485 Adapter      | (ACC-ADT-USB-RS485)   |
| USB Stick                 |                       |
| Necessary Hardware        |                       |



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2.TOOLS YOU NEED



Slotted Screwdriver

4 mm Hex Key

**3.GET THE LATEST** 

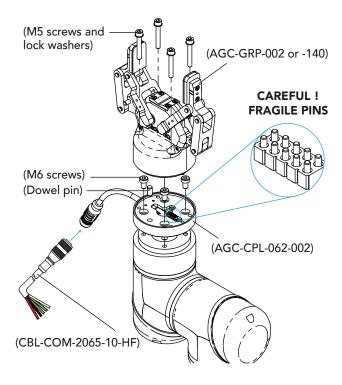
Visit: support.robotiq.com

- Get the up-to-date instruction manual (PDF or web browser).
- Get the latest Robotiq\_2-Finger\_Adaptive\_Gripper-X.X.X.urcap.
- Download the .urcap file on a USB stick.





- Mount the coupling (AGC-CPL-062-002)on your robot arm. Align with the provided dowel pin\*.
- Fix using the provided M6 screws (use of threadlocker is recommended).
- Mount the Gripper (AGC-GRP-002 or -140) on the coupling. Align with the dowel pin\*.
- Fix using the provided M5 screws and lock washers.
- Plug the device cable (CBL-COM-2065-10-HF) into the Gripper's pigtail and fix the cable along the robot arm using a cable routing system.



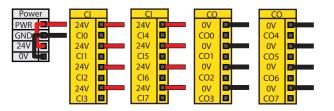
\*The dowel pin is meant to have a tight fit on the robot side and a slip fit on the effector side of the assembly.



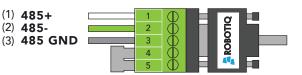
LEAVE ENOUGH EXCESS CABLE TO ALLOW FULL ROBOT MOVEMENT.



- 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<br>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.



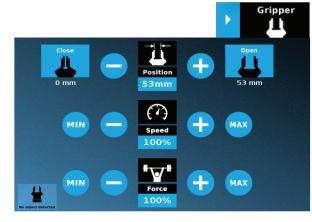
- The wizard prompts the user to fully **close** the Gripper, regardless of the type of fingers/fingertips used.
- Measure the distance between the fingers/fingertips and enter the measurement in the appropriate box.
- Tap the **Continue** button.
- The user is then asked to fully **open** the Gripper.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



- 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.



# ADAPTIVE GRIPPER 2-FINGER 85 & 140

## **QUICK START GUIDE**

For installation on Universal Robots



- 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.
- More information on how to program the Gripper using the URCap can be found in the instruction manual.

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

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