

THANK YOU FOR CHOOSING ROBOTIQ

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



1. WHAT IS SUPPLIED?

Standard upon delivery of a Universal Robots kit:

- Vacuum generator.....(GRIPPER-AIRPICK)
- Gripper coupling.....(VAC-ES-CPL-062)
- Suction cup
- 8 mm Air Tube (8 m)
- USB Stick
- Required Hardware



2. TOOLS YOU NEED



3. GET THE LATEST

Visit support.robotiq.com

- Get the latest instruction manual (PDF or HTML).
- Download the applicable **Robotiq_Grippers-X.X.X.urcap**.
- Copy the **.urcap** file on a USB stick.



BEFORE OPERATING THE GRIPPER, PLEASE READ THE INSTRUCTION

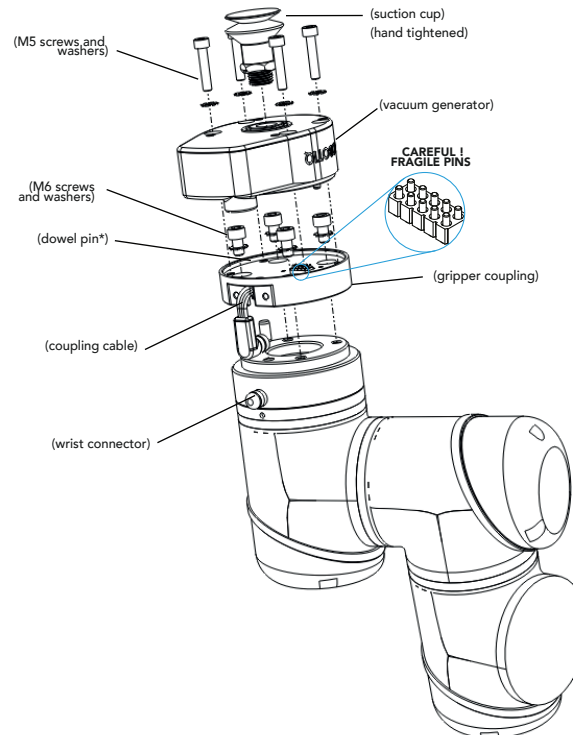


4. MOUNTING

- Mount the gripper coupling on your robot arm. Align with the dowel pin*.
- Secure by inserting the M6 screws and tooth lock washers.
- Mount the Vacuum Gripper on the gripper coupling. Align with the dowel pin.
- Secure by inserting the M5 screws and tooth lock washers.
- Plug the coupling's cable into the robot's wrist connector.
- To install either a 2 or a 4 suction cups gripper, please refer to the Connector Assembly Guide. You can find details on assembling the Suction Cup System.
- Once the air tube is connected to the vacuum generator, ensure the safety clip is in place.



- Maximum pressure allowed is 7 bar (Recommended pressure is 6.5 bar).
- Use dry and filtered air only. Follow standard ISO 8573-1, class 3.4.3.
- We recommend using a local pressure regulator with a filter and air dryer.



* The dowel pin should fit tightly on the robot wrist, and loosely in the end effector.



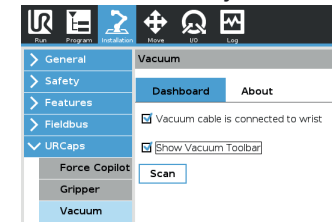
5. SOFTWARE INSTALLATION

- Have a USB stick that contains the **.urcap** file (refer to step 3) and insert it in the robot's teach pendant.
- Tap the triple bar icon in the upper right corner and select **Settings**.
- Tap **System** in the left navigation pane.
- Tap URcaps in the pane, then tap the button.
- Open the file **Robotiq_Grippers-X.X.X.urcap**.
- Tap the **Restart** button, in the bottom right corner of the screen, to activate the URcap.

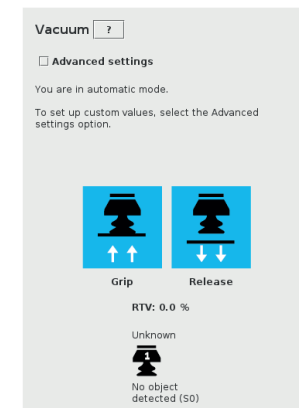
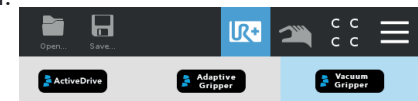


6. DETECTING THE GRIPPER

- Initialize the robot.
- Tap the **Installation** tab in the Header.
- Tap the **URCaps** tab in the navigation pane on the left.
- Select **Vacuum** in the URcaps dropdown list.
- Ensure the **Vacuum cable is connected to wrist** check box is selected.
- Tap the **Scan** button to locate any connected gripper.



- Tap the **UR+** tab to expand the Vacuum Toolbar.
- The Vacuum Toolbar allows you to test the vacuum gripper.



Vacuum Gripper Toolbar



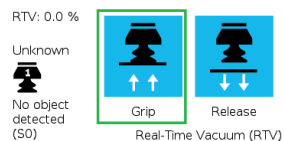
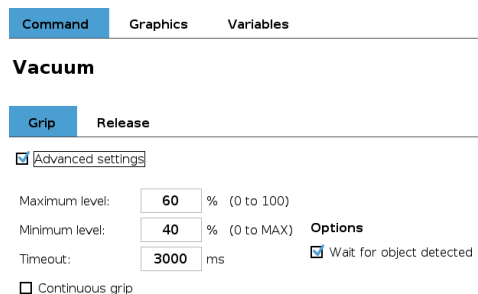
7. PROGRAMMING THE GRIPPER

Vacuum Node

- Tap the **Program** tab at the top of the screen.
- Tap the **URCaps** tab in the left navigation pane.
- Tap **Vacuum** in the URCaps dropdown list.
- Tap the **Command** tab to edit the action of your gripper.

To grip a part

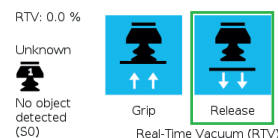
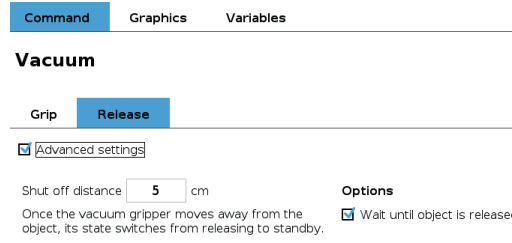
- In the **Command** tab, select the **Grip** tab;
- You can specify a range for the maximum and minimum vacuum levels (%), and specify a timeout (ms) by checking the **Advanced settings** box.
- To establish nominal values for your application, tap the **Grip** button.



Vacuum command - GRIP

To release a part

- In the **Command** tab, select the **Release** tab;
- If the **Advanced settings** box is checked, enter a **Shut off distance** (cm).
- To establish nominal values for your application, tap the **Release** button.



Vacuum command - RELEASE



Vacuum Gripper

AIR PICK

QUICK START GUIDE

For installation on
e-Series
Universal Robots



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