

## THANK YOU FOR CHOOSING ROBOTIQ

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



### 1. WHAT IS SUPPLIED?

Standard upon delivery of **VAC-ES-UR-EPICK-KITX**

- Vacuum generator.....(VAC-GRP-EPICK)
- Gripper coupling.....(GRP-ES-CPL-062)
- Connection protector.....(GRP-ES-CPL-PRO)
- Suction Cup Option
- KIT1**.....(1 SUCTION CUP)
- KIT2**.....(2 SUCTION CUPS)
- KIT4**.....(4 SUCTION CUPS)

Required hardware



### 2. TOOLS YOU NEED



3 mm Hex Key



4 mm Hex Key



### 3. GET THE LATEST

Visit: [support.robotiq.com](http://support.robotiq.com)

DOWNLOADING THE URCAP

1. Select brand > Universal Robots > Vacuum Grippers > Software > Gripper Software.
2. Select **DOWNLOAD ZIP**.
3. Save the ZIP file **UCG-X.X.X** to a USB stick.

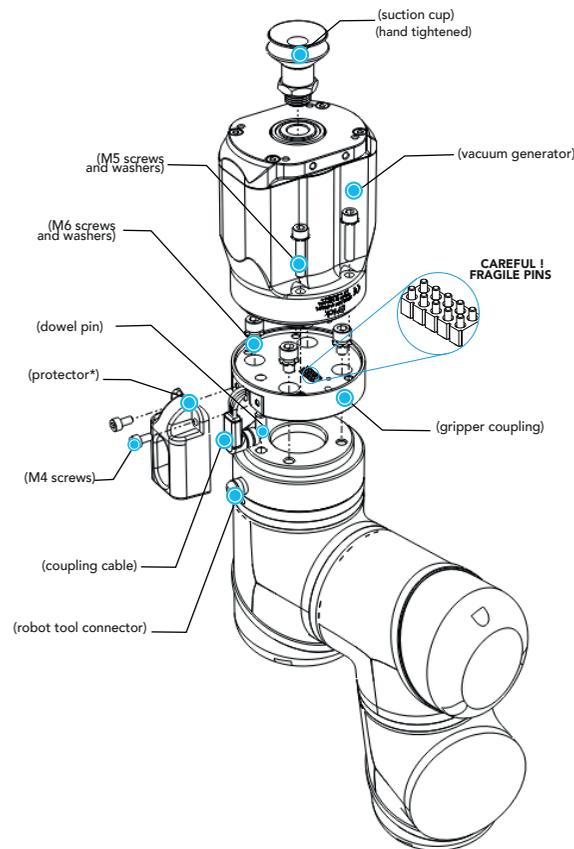


**BEFORE OPERATING THE GRIPPER, PLEASE READ INSTRUCTION MANUAL.**



### 4. MOUNTING

1. Mount the coupling on your robot arm. Align with the provided dowel pin.
2. Secure by inserting the M6 screws and tooth lock washers.
3. Mount the Vacuum Gripper on the coupling. Align with the dowel pin.
4. Secure by inserting the M5 screws and tooth lock washers.
5. Plug the coupling cable into the robot tool connector.
6. Cover the tool connection using the protector and the M4 screws.
7. To install the 2 or 4 suction cups kits for gripper, please refer to the **Connector Assembly Guide**. You can find in this guide details on assembling the Suction Cup System.



\* Select the connection protector corresponding to your robot model in the GRP-ES-CPL-PRO kit.



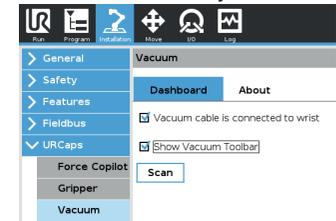
### 5. SOFTWARE INSTALLATION

1. Have a USB stick that contains the **.urcap** file (**STEP 3**).
2. Insert the USB stick in the robot teach pendant.
3. Tap the triple bar icon in the upper right corner and select **Settings**.
4. Tap the sign.
5. Open **UCG-X.X.X.urcap**.
6. Tap the **Restart** button to activate the URCap.
7. The **Vacuum** toolbar button will display a short time after the installation of the software is completed.

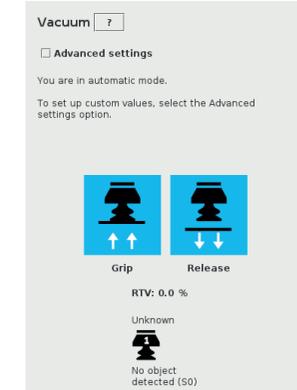
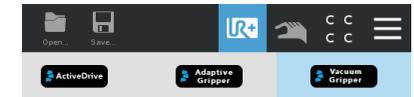


### 6. DETECTING THE GRIPPER

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



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



Vacuum Gripper Toolbar



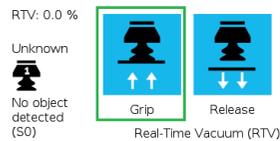
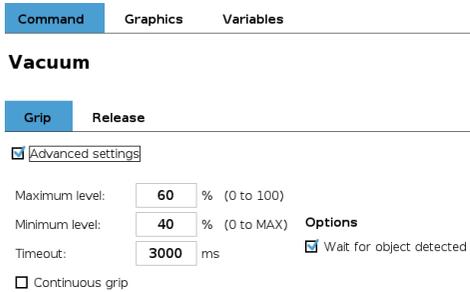
## 7. PROGRAMMING THE GRIPPER

### VACUUM NODE

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

### TO GRIP A PART

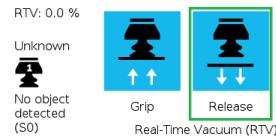
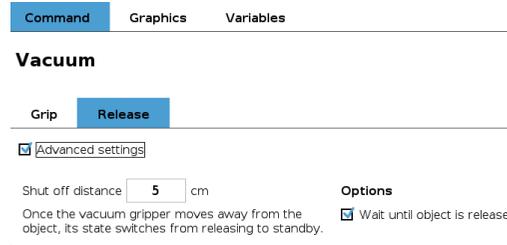
1. In the **Command** tab, select the **Grip** tab;
2. You can specify a range for the maximum and minimum vacuum levels (%), and specify a timeout (ms) by checking the **Advanced settings** box.
3. To establish nominal values for your application, tap the **Grip** button.



Vacuum command - GRIP

### RELEASING A PART

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



Vacuum command - RELEASE



## Vacuum Gripper

# E PICK

## QUICK START GUIDE

### For installation on e-Series Universal Robots



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