

## THANK YOU FOR CHOOSING ROBOTIQ

This step-by-step guide will allow you to install and use your EPick vacuum gripper on Universal Robots CB Series robots fitted with a Robotiq I/O coupling.



### 1. WHAT IS SUPPLIED?

Standard upon delivery of **VAC-CB-UR-EPICK-KITX-W**

- Vacuum generator (VAC-GRP-EPICK)
- I/O coupling kit (IO-CPL-UR-CB-KIT)
- Screws kit
- Micro-USB to USB cable
- 16 Gb USB stick
- Suction cups
  - KIT1-W** ..... (1 SUCTION CUP)
  - KIT2-W** ..... (2 SUCTION CUPS)
  - KIT4-W** ..... (4 SUCTION CUPS)
- Required hardware



### 2. TOOLS YOU NEED



### 3. GET THE LATEST

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

#### DOWNLOADING THE URCAP

1. Select brand > Universal Robots > Vacuum Grippers > Software > I/O Coupling Software.
2. Select **DOWNLOAD ZIP**.
3. Save the ZIP file **UCH-X.X.X** to a USB stick.

#### DOWNLOADING THE INSTRUCTION MANUAL

1. Select brand > Universal Robots > Vacuum Grippers > Documents > View online or Download PDF.

BEFORE OPERATING THE EPICK VACUUM GRIPPER, PLEASE READ YOUR INSTRUCTION MANUAL.



### 4. MOUNTING

- i** For easier mounting, move the robot tool flange to make it point upwards.

#### MOUNTING THE I/O COUPLING

1. Insert the provided dowel pin into the tool flange. It should fit tightly on the flange, and loosely on the coupling.
2. Mount the I/O Coupling on the tool flange of the robot. Align with the provided dowel pin.
3. Secure the I/O Coupling on the tool flange with four M6 screws and toothlock washers, using a 4mm hex key.

#### MOUNTING THE EPICK ON THE I/O COUPLING

1. Put the EPick on the coupling.
2. Secure the EPick to the coupling with four M5 screws and toothlock washers, using a 4mm hex key.
3. Plug coupling connector into tool connector.

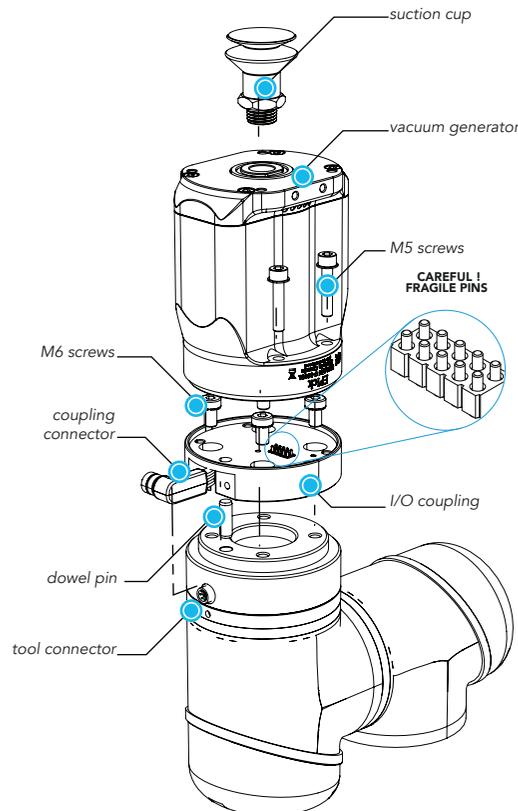


Figure 1. EPick wrist connection kit exploded view, on robot arm.



### 5. CONFIGURING

On the teach pendant, select the **I/O** tab. Tool output must be set to **24 volts** (see figure 2).

- i** For more details on configuring coupling presets, see section 7, "Configuring Presets".

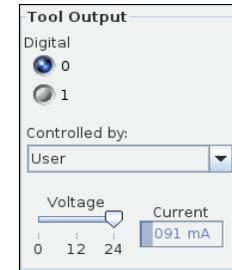


Figure 2. Set tool output to 24 volts.



### 6. INSTALLING SOFTWARE

1. Have a USB stick that contains the **.urcap** file (see section 3, "Get the latest").
2. Insert the USB stick in the robot teach pendant.
3. Tap **Setup Robot > URCaps Setup**.
4. Tap **+**.
5. Open **UCH-X.X.X.urcap**.
6. Tap **Restart** to activate the URCap.
7. The **Wrist Connection** toolbar will display shortly after completing the installation.



Figure 3. The Wrist Connection toolbar.



## 7. CONFIGURING PRESETS

### I/O COUPLING DEFAULT PRESETS

PRESET 1	PRESET 2	PRESET 3	PRESET 4
Automatic grip mode	Continuous grip mode	Min. vac: 10% Max. vac: 20%	Automatic release mode

#### LINKING WITH THE I/O COUPLING

**i** The I/O coupling must be mounted on the tool flange before proceeding.

1. Connect the micro-USB cable (type B) into the I/O coupling micro-USB port.
2. Connect the cable to a computer USB port.
3. Configure coupling using the Robotiq User Interface.

#### CONFIGURING VIA THE ROBOTIQ USER INTERFACE

1. Visit [support.robotiq.com](http://support.robotiq.com).
2. Go to **Select brand > Universal Robots > Vacuum Grippers > Software > Robotiq User Interface**.
3. Select **Installer > Download ZIP**.
4. Run the Robotiq User Interface.
5. Select **IO Coupling > Auto Connect**.
6. From the dropdown list, select **Vacuum Gripper**.
7. If required, modify default presets, then click **Save presets configuration to I/O Coupling**.

For more details, refer to the EPick instruction manual.



## 8. WRIST CONNECTION TOOLBAR

1. Using the teach pendant, tap the **Wrist Connection** button to expand the **Wrist Connection** toolbar.
2. Tap any preset button to test its behavior.

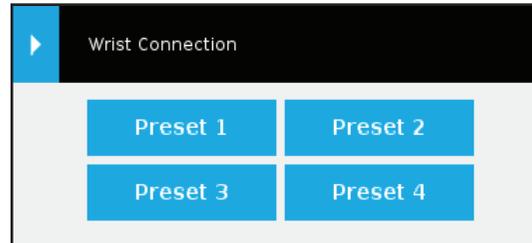


Figure 4. The Wrist Connection toolbar contains four presets.



## 9. PROGRAMMING WITH THE NODE

#### USING THE WRIST CONNECTION NODE

1. From your robot program, go to **Structure > URCaps**, and insert a **Wrist Connection** node.
2. Go to **Command**, and select the applicable preset.



**Vacuum Gripper**

**EPICK**

**QUICK START GUIDE**

**Wrist Connection Kit  
for CB Series  
Universal Robots**



This product is under a 1-year warranty.  
Refer to your product instruction manual for details.

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