

## THANK YOU FOR CHOOSING ROBOTIQ

This step-by-step guide will allow you to install and use **your Gripper** on **CB-Series Universal Robots** fitted with a **Robotiq I/O Coupling**.



### 1. WHAT IS SUPPLIED?

Standard upon delivery of **your Gripper** with the **UR Wrist Connection Kit**:

<b>I/O Coupling Kit (IO-CPL-UR-CB-KIT)</b>
I/O Coupling + Micro-USB to USB cable + Required hardware

+

Your Robotiq Adaptive Gripper		
<b>AGC-UR-KIT-85-W</b>	2F-85 Basic Gripper Unit : AGC-GRP-2F85	
<b>AGC-UR-KIT-140-W</b>	2F-140 Basic Gripper Unit : AGC-GRP-2F140	
<b>HND-UR-KIT-W</b>	Hand-E Basic Gripper Unit : HND-GRP	
Your Robotiq Vacuum Gripper	Suction cups	
<b>VAC-CB-UR-EPICK-KIT1-W</b>	1	
<b>VAC-CB-UR-EPICK-KIT2-W</b>	EPick Basic Gripper Unit GRIPPER-EPICK	
<b>VAC-CB-UR-EPICK-KIT4-W</b>		4
<b>VAC-CB-UR-AIRPICK-KIT1-W</b>	AirPick Basic Gripper Unit GRIPPER-AirPICK	
<b>VAC-CB-UR-AIRPICK-KIT2-W</b>		2
<b>VAC-CB-UR-AIRPICK-KIT4-W</b>		4



## 2. GET THE LATEST

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

### DOWNLOADING THE URCAP

1. Go to **Select brand > Universal Robots > your Gripper > Software > I/O Coupling Software**.
2. Select the corresponding **UCH-X.X.X** file.
3. Download the .urcap file on a USB stick and unzip it.

### DOWNLOADING THE INSTRUCTION MANUAL

Go to **Select brand > Universal Robots > your Gripper > Documents > your Gripper Instruction Manual > Download PDF**.



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



## 3. 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.
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 using the provided M6 screws and tooth lock washers.

### MOUNTING YOUR GRIPPER ON THE I/O COUPLING

1. Align **your gripper** on the coupling, using the dowel pin.
2. Secure **your gripper** to the coupling with the provided M5 screws and tooth lock washers.
3. Plug the coupling's connector in the robot's wrist connector.

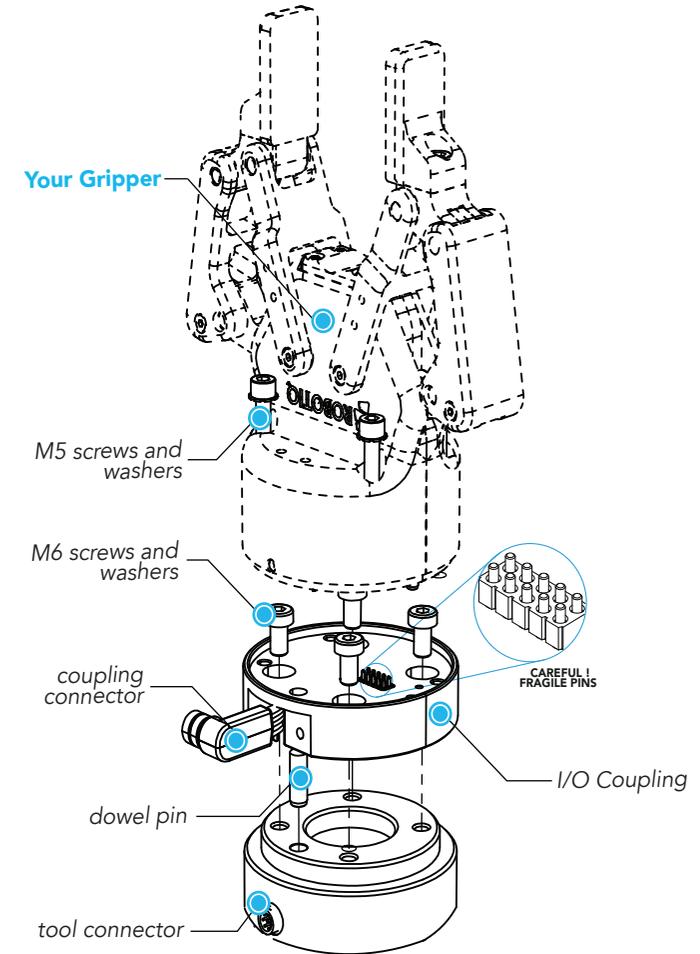


Figure 1. Example of the 2-Finger wrist connection kit exploded view, on robot arm.



**FOR MORE DETAILS ABOUT YOUR GRIPPER INSTALLATION, PLEASE READ ITS INSTRUCTION MANUAL.**



## 4. CONFIGURING

1. On the teach pendant, select the **I/O** tab.
2. On the bottom right corner of the page, select Robotiq\_Wrist\_Connection in the Controlled by drop down menu.
3. Make sure to save in the Installation Tab.

**i** For more details on configuring coupling presets, see section 6, "Configuring Presets".



## 5. INSTALLING SOFTWARE

1. Have a USB stick that contains the **.urcap** file (see section 2, "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.



## 6. CONFIGURING PRESETS

### I/O COUPLING DEFAULT PRESETS FOR ADAPTIVE GRIPPERS

	PRESET 1	PRESET 2	PRESET 3	PRESET 4
POSITION	100%	0%	100%	0%
SPEED	100%	100%	0%	0%
FORCE	100%	100%	1%*	1%*

\*Force is not reduced to 0%. This would deactivate the Continuous Grip feature.

### I/O COUPLING DEFAULT PRESETS FOR VACUUM GRIPPERS

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 using the Robotiq User Interface.

### CONFIGURING VIA THE ROBOTIQ USER INTERFACE

1. Visit [support.robotiq.com](https://support.robotiq.com)
2. Go to **Select brand > Universal Robots > your Gripper > 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 **your Gripper**.
7. If required, modify default presets, then click **Save presets configuration to I/O Coupling**.

**i** For more details, refer to [your Gripper](#) Instruction Manual.



**ROBOTIQ**  
eLearning

[elearning.robotiq.com](https://elearning.robotiq.com)



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## QUICK START GUIDE

### Wrist Connection Kit for CB-Series Universal Robots



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