THANK YOU FOR CHOOSING ROBOTIQ

This step-by-step guide will allow you to **install** and **use your AirPick Vacuum Gripper** on **Omron TM Series robots.**

1.WHAT IS SUPPLIED?

Standard upon delivery of VAC-OMRON-AIRPICK-**KITX**
• **Vacuum Generator**......................(VAC-GRP-AIRPICK)
• **Gripper Coupling**.........................(GRP-TM-CPL-022)
• **High-Flex Device Cable**.........(CBL-COM-2065-10-HF)
• **RS232 to RS485 Adapter**..... (ACC-ADT-RS232-RS485)
• **USB to RS485 Adapter**...........(ACC-ADT-USB-RS485)
• **Suction Cup Option:**
　KIT 1...(1 suction cup)
　KIT 2...(2 suction cups)
　KIT 4...(4 suction cups)
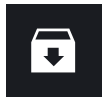• **Required Hardware**

2.TOOLS YOU NEED

**2mm
slotted screwdriver
(not included)**

**4mm
hex key**

3.GET THE LATEST

1. Visit: **support.robotiq.com**
2. Select Omron TM, Air-Pick Vacuum Gripper, Software, Gripper Software.
3. Download the latest TM Plug & Play Software Package.
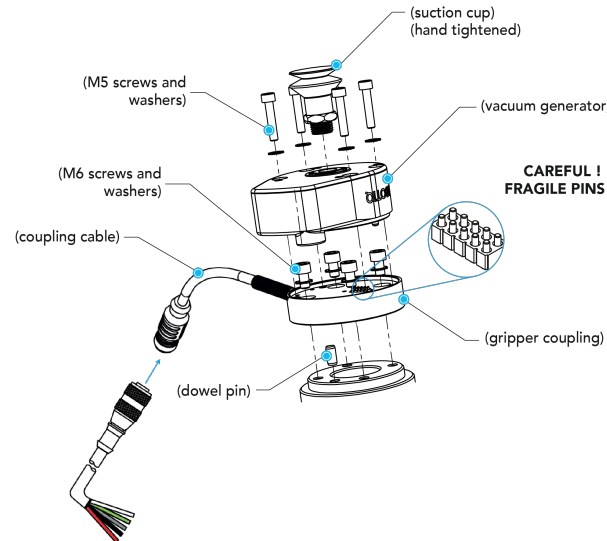4. Decompress the package at the root of a USB storage device and rename the USB device **"TMROBOT"**.

⚠ BEFORE OPERATING THE GRIPPER, PLEASE READ THE 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 device cable into the coupling pigtail and attach the cable along the robot arm using a cable routing system.
6. 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.

(suction cup)
(hand tightened)

(M5 screws and washers)

(vacuum generator)

(M6 screws and washers)

CAREFUL !
FRAGILE PINS

(coupling cable)

(gripper coupling)

(dowel pin)

⚠ LEAVE ENOUGH EXCESS CABLE TO ALLOW FULL ROBOT MOVEMENT.

CONNECTING THE AIR SUPPLY

1. Insert the 8 mm flexible tube in the air supply port.
2. Once the tube inserted, make sure the safety clip is present to secure the tube.
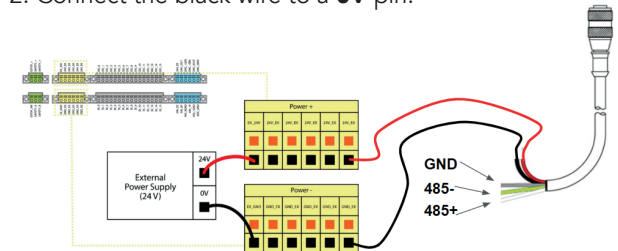3. Route the air tube along the robot arm using a cable routing system.

⚠ • Recommended air pressure = 7 bar [101.5 psi]
　　Maximum = 7 bar [101.5 psi]
• Dry and filtered air only;
　Follow ISO 8573-1, class 3.4.3 Standard.
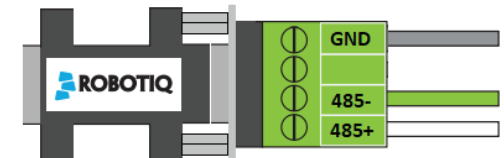• Use of a local pressure regulator with a filter and air dryer is recommended.

5.WIRING

ℹ The red (24V) and black (0V) wires of the device cable (CBL-COM-2065-10-HF) provide power to the Gripper.

1. Connect the red wire to a **24V** pin.
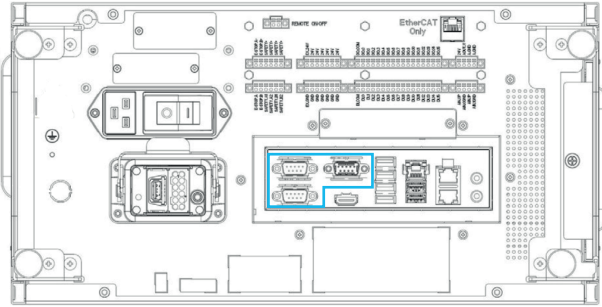2. Connect the black wire to a **0V** pin.

3. Connect the communication wires in the RS232 signal converter (ACC-ADT-RS232-RS485) as shown below.

Pin	Signal Name	CBL-COM-2065-10-HF High-Flex Device Cable
1	485 + (A)	WHITE
2	485 - (B)	GREEN
3	485 GND	SHIELD

4. Connect the RS232 end of the signal converter to a COM port of the robot controller.

6. SOFTWARE INSTALLATION

1. Turn on the robot and log in to TM Flow.
2. Connect the USB device that contains the **Components** in the robot controller.
3. Take control of the robot, tap the **triple bar icon** and select **System Settings**.
4. Click on **Import/Export**.
5. Click on the **Import** button, select **TMComponent** in the **Robot List** menu and click **OK**.
6. Select the files to import in the list on the left and click on the **Send** button.
7. Tap the **triple bar icon** and select **Robot Setting**.
8. Enable the appropriate Components by clicking on the **radio buttons** and click on the **Save** button.

ROBOTIQ

Vacuum Gripper

AIR PICK

QUICK START GUIDE

For installation on Omron TM Series collaborative robots

ROBOTIQ eLearning

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