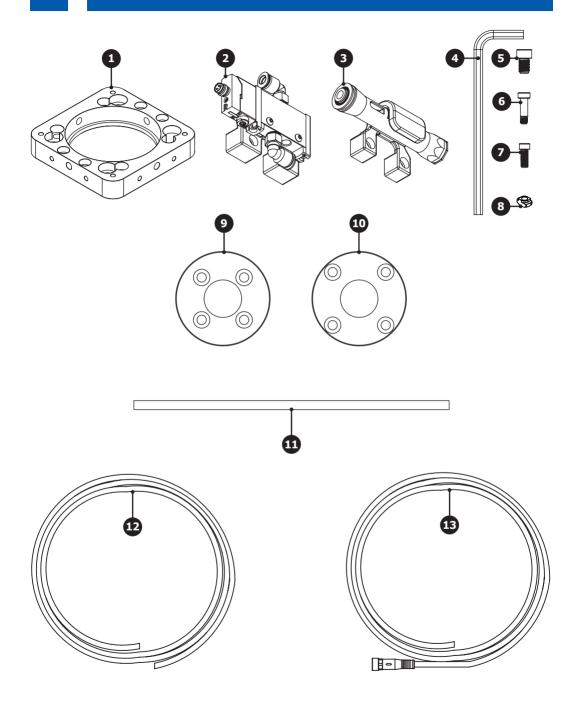


Getting Started Guide

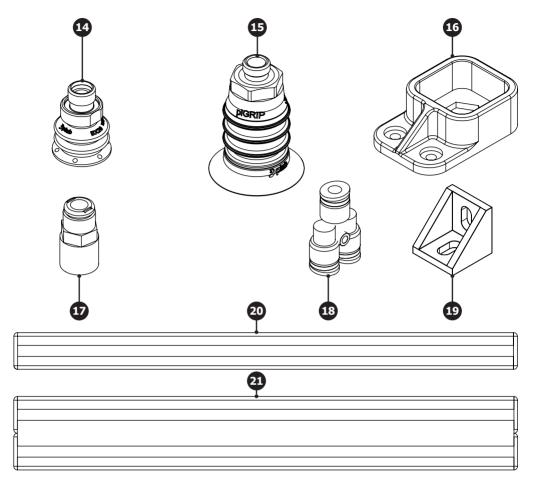
Active Vacuum Array Gripper Kit



Box Contents



Box Contents

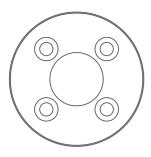


- 1. Universal Tool Plate
- 2. Solenoid & Mounting Bracket
- 3. Vacuum Generator & Mounting Bracket
- 4. 3x Allen Keys
- 5. 4x M6 Bolts
- 6. 4x Shoulder Bolts
- **7.** M4 Bolts(8x 8mm, 4x 12mm, 4x 18mm)
- 8. M4 T-Nuts
- 9. ISO 40 Mounting Plate
- 10. ISO 50 Mounting Plate
- 11. Vacuum Generator Tube

- 12. Solenoid Pneumatic Tubing
- 13. Solenoid Cable
- 14. 4x25mm Suction Cups
- 15. 4x36mm Bag Lip Suction Cups
- **16.** 4x Cup Mounts
- 17. 4x Cup Fitting
- 18. 4x Tube Y-Splitters
- 19. 4x 20mm Brackets
- 20. 2x 20x20mm 260mm Long T-Slot
- 21. 20x40mm 260mm Long T-Slot

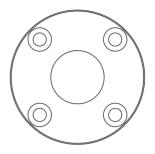
Mounting Plate Assembly

1. Select your mounting plate and fix to the robot using M6 bolts provided.



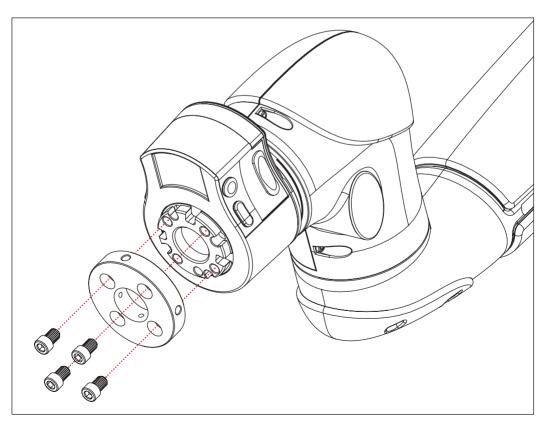
ISO 40 Mounting Plate

Suitable for Rethink Robotics' Sawyer,
ABB Robots using ISO 9409-1-40-4-M6
compatible mounting plate.



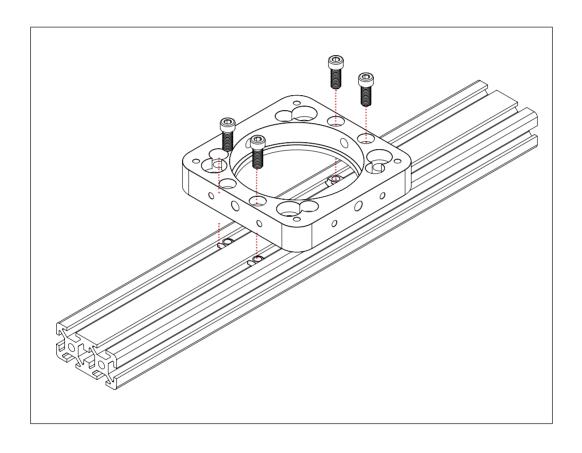
ISO 50 Mounting Plate

Kuka iiwa, Universal Robots UR3, UR5 and UR10 using ISO 9409-1-50-4-M6 compatible mounting plate.



Installing Universal Tool Plate

2. Attach Universal Tool Plate to T-slot profile using M4 12mm bolts and T-nuts

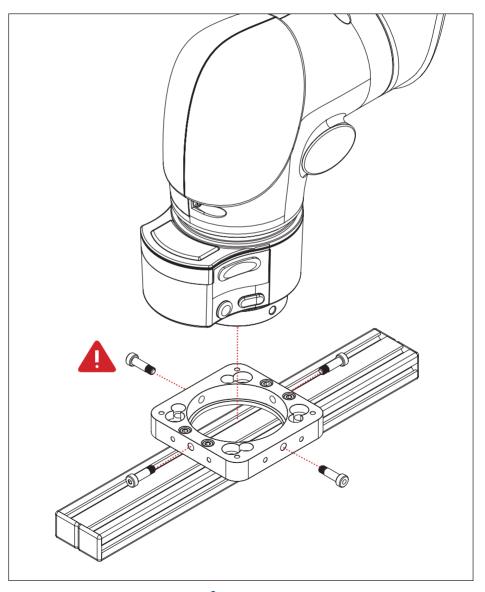


Install Vacuum Tool

3. Attach Universal Tool Plate to the robot arm using 4x shoulder bolts.

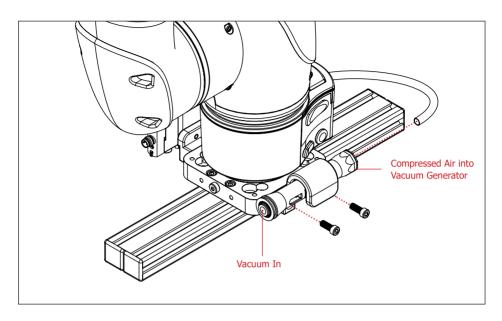


Fit all 4x shoulder bolts loosely to align the holes before final tightening.

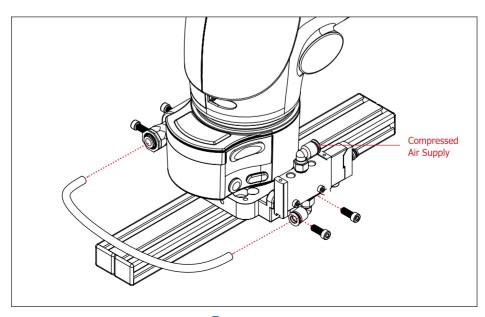


Assemble Solenoid and Vacuum Generator

4A. Install the vacuum generator using 2x M4 fixing bolts.

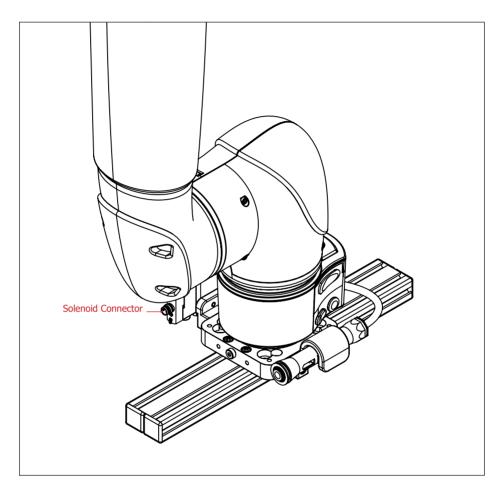


4B. Install the solenoid using 2x M4 fixing bolts and then assemble the piping.



Attach the Solenoid Cable

5. Attach the solenoid cable, refer to the wiring below.

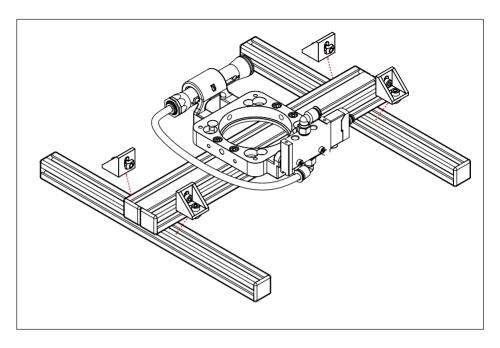


Solenoid Cable Specification

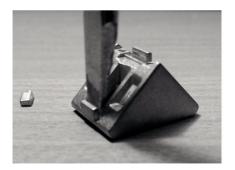


Assemble Required Configuration

6A. Assemble a configuration for your requirement using additional T-slot bars with angle brackets, M4 8mm bolts and T-nuts



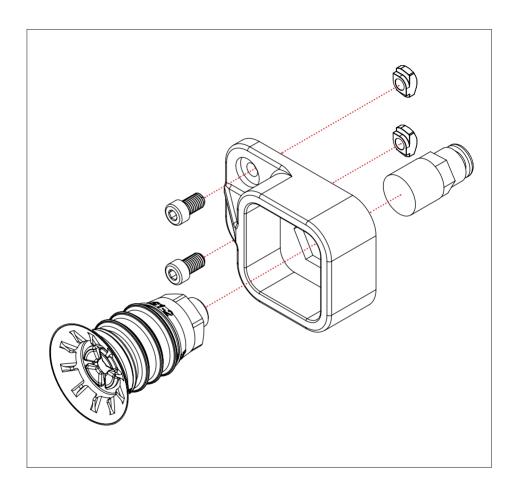
Angle bracket tabs may need to be removed to sit flush with T-slot. This can be done by prying the tabs off using a flat head screwdriver.





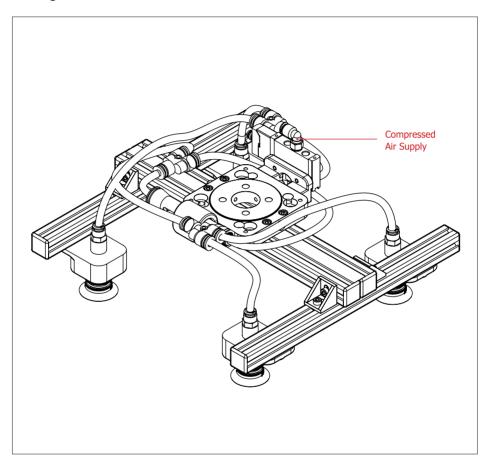
Assemble Required Configuration

6B. Assemble required suction cups, cup mounts and fittings and attach the assembly to T-slot using M4 8mm bolts and T-nuts



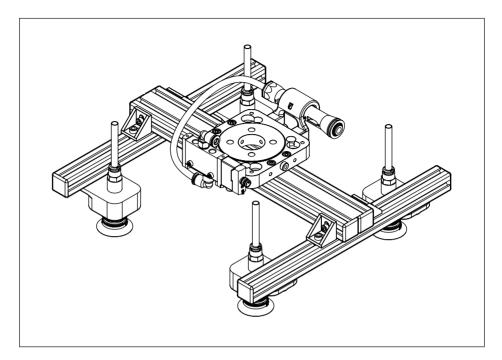
Assemble Piping

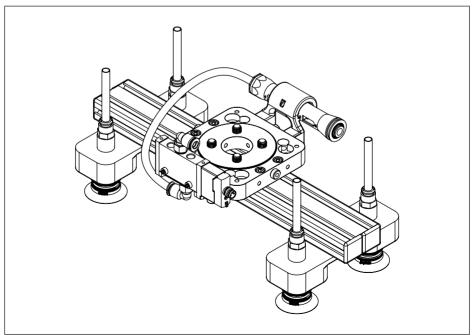
7. Cut the included air hose to length and connect all suction cups to vacuum generator using push-fit Y-splitters. Make sure the air hose is not kinked or rubbing.



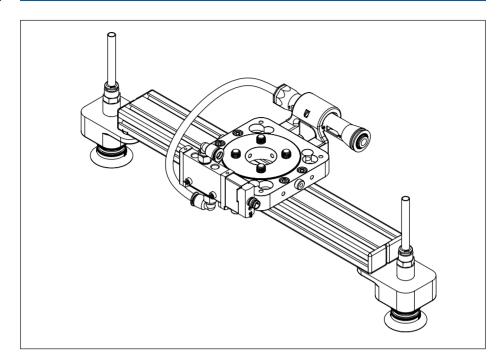
8. Connect the Compressed Air Supply.

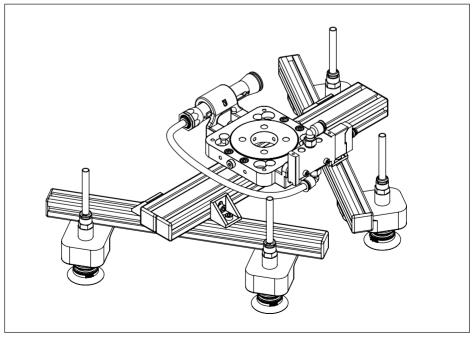
Configurations



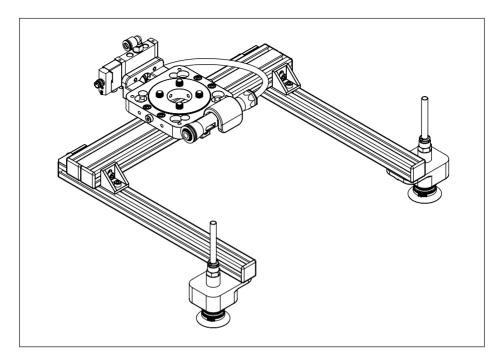


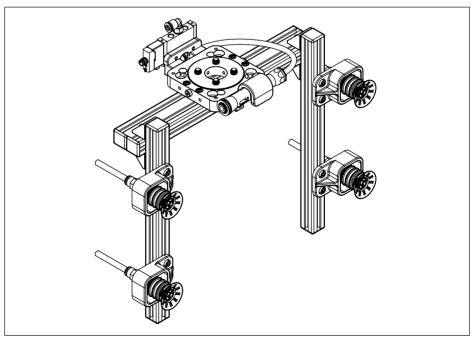
Configurations





Configurations





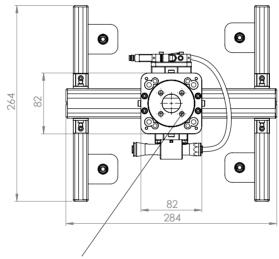
Technical Specification



Description	Ver	tical	Parallel		
	40 -kPa	60 -kPa	40 -kPa	60 -kPa	
Lifting forces	10.3 N	15.0 N	5.2 N	7.5 N	

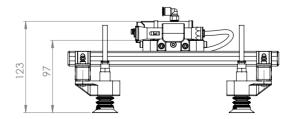


Description	Vertical			Parallel		
	20 -kPa	60 -kPa	90 -kPa	20 -kPa	60 -kPa	90 -kPa
Lifting forces	8 N	13 N	17 N	5 N	10 N	12 N



SUPPORTED ROBOT BOLT PATTERNS

- 1. ISO 9409-1-40-4-M6 (40MM PCD WITH 4XM6 THREADS)
- 2. ISO 9409-1-50-4-M6 (50MM PCD WITH 4XM6 THREADS)



Thank you for choosing the Active Vacuum Array Gripper Kit.

This supplement provides you with information relating to the Active Vacuum Array Gripper Kit and is correct at the time of publishing.

www.active8robots.com

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