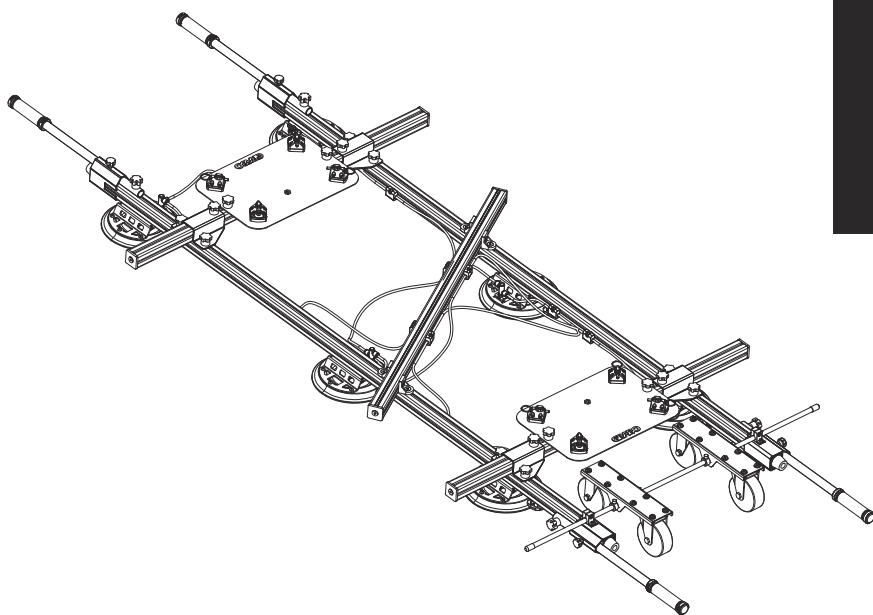


GRABO[®]

PANEL PRO

Assembly Instruction Manual



GRABO Panel Pro Assembly Instruction Manual

The GRABO Panel Pro provides an essential solution for teams needing to handle and transport large panels on-site, making the task significantly easier.

Grabo GRABO Panel Pro Kit includes:

- 2x 2M Aluminum Alloy Profiles with Suction Cups
- 3x 1M Aluminum Alloy Profiles
- 4x Standard Riding Pieces
- 4x Aluminum Profile Connectors
- 4x Pipe Locking Clamps
- 2x Aluminum Baseplates
- 4x Handles
- 1x 1M Support Rod
- 2x 4-Inch Roller Pulley Assemblies
- 2x Fixing Seats
- 4x Locking Rings
- 4x M8x35 Rosette Thumbscrews
- 16x M8x15 Rosette Thumbscrews
- 4x M6x10 Rosette Thumbscrews
- 2x Rubber Plugs
- 2x $\varnothing 6 \times \varnothing 4 \times 360$ MM PU Air Pipes
- 2x $\varnothing 6 \times \varnothing 4 \times 1100$ MM PU Air Pipes
- 2x $\varnothing 6 \times \varnothing 4 \times 1300$ MM PU Air Pipes
- 9x Aluminum Alloy Pipe Clamps
- 28x M8 Slide Nuts
- 1x 4mm Allen key
- 1x 5mm Allen key
- 1x 3mm Allen key
- 1x Open-end wrench for M4 nut

Step 1: Connect the 2M and 1M Profiles

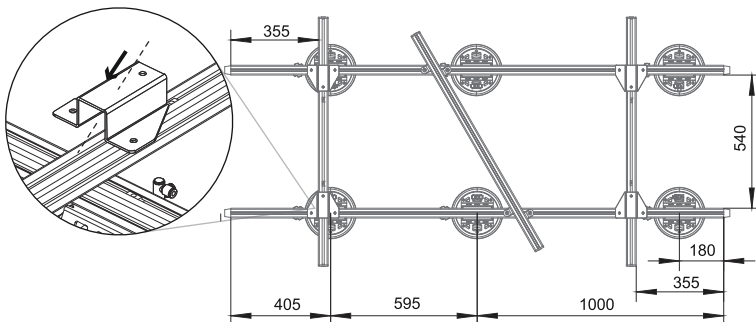
Materials Needed:

- 2x 2M Aluminum Alloy Profiles with Suction Cups
- 3x 1M Aluminum Alloy Profiles
- 4x Standard Riding Pieces
- 4x Aluminum Profile Connectors
- 12x M8x15 Rosette Thumbscrew
- 1x 5mm_Allen key
- 8x M8 Slide Nuts (each 2x2M Aluminum Alloy Profiles with Suction Cups)
- 4x M8 Slide Nuts (each 2x1M Aluminum Alloy Profiles and these M8 Slide Nuts are facing upward)
- 4x M8 Slide Nuts (each 1x1M Aluminum Alloy Profiles and these M8 Slide Nuts are facing left and right)

Instructions:

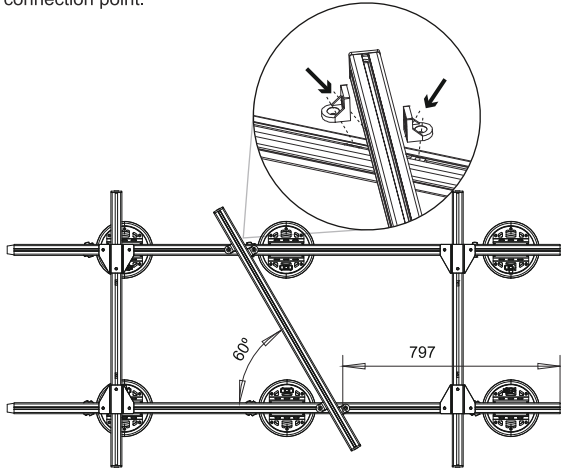
1. Prepare the Profiles:

Gather two 2M Aluminum Alloy Profiles with Suction Cups and two 1M Aluminum Alloy Profiles. Position the 1M Aluminum Alloy Profiles at a 90-degree angle to the 2M Aluminum Alloy Profiles (refer to the accompanying diagram). place a Standard Riding Pieces at each intersection where the 1M and 2M profiles meet.



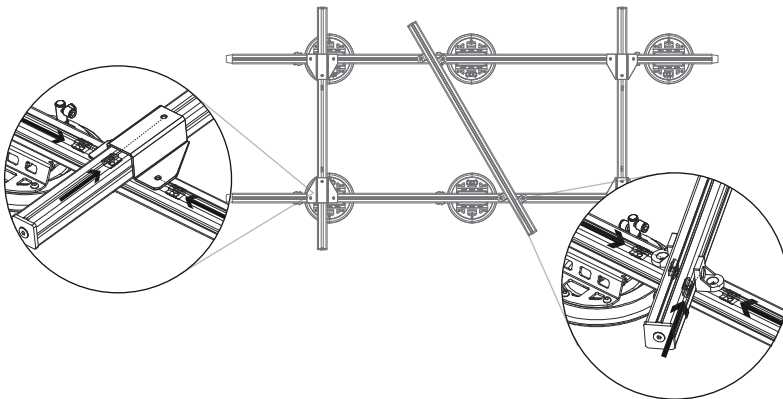
2. Add the Center Profile:

Position the remaining 1M Aluminum Alloy Profile at a 60-degree angle (for reference) between the two 2M Aluminum Alloy Profiles in the center. Attach the four Aluminum Profile Connectors at each connection point.



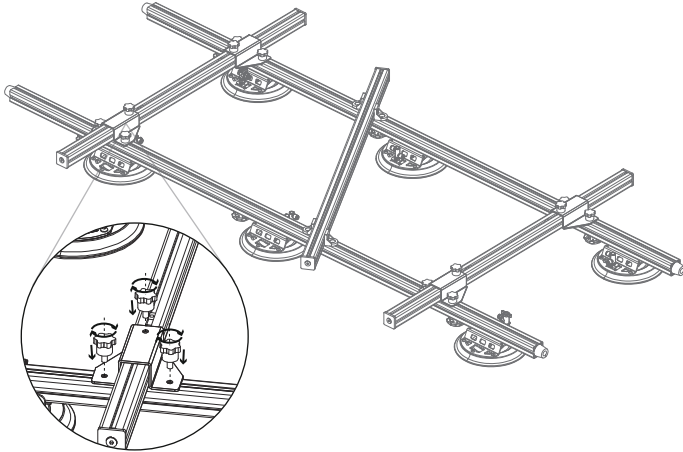
3. Insert Slide Nuts:

Move the M8 Sliding Nut to the appropriate position to install it.



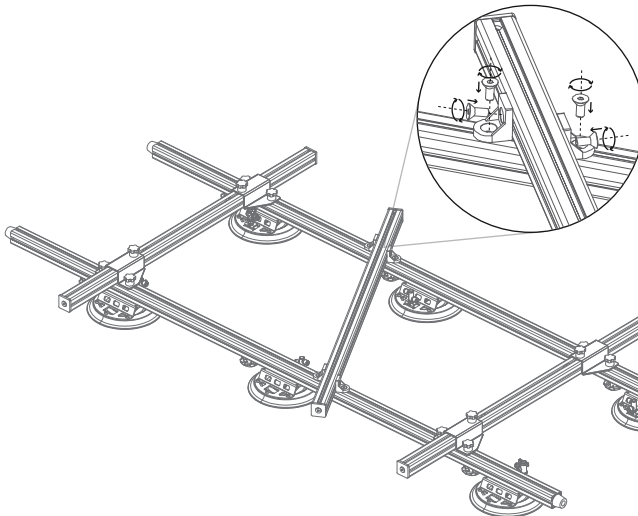
4. **Fasten with Thumbscrews:**

Tighten the M8X15 Rosette Thumbscrews through the Standard Riding Pieces into the M8 Slide Nuts to securely fasten the profiles.



5. **Secure Connectors:**

Tighten the Allen wrench (not explicitly listed but implied for the connectors) through the Aluminum Profile Connectors into the M8 Slide Nuts to securely fasten the profiles. Tighten the screws with a 5mm Allen key.



Step 2: Install the Aluminum Baseplate

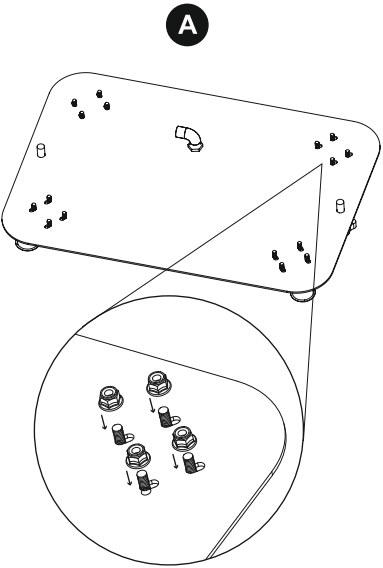
Materials Needed:

- 4x M8x15 Rosette Thumbscrews
- 2x Aluminum Baseplates

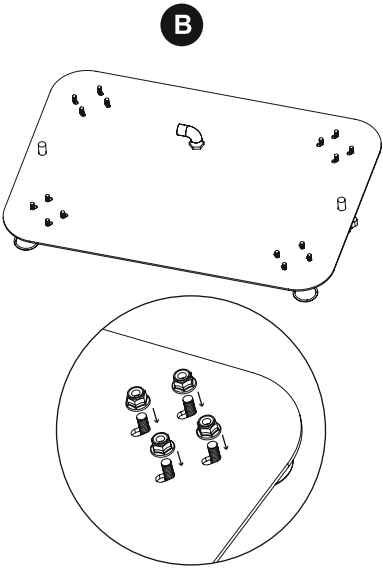
Instructions:

Important

Before proceeding to the next step, please first determine the appropriate suction cup model. And perform corresponding operations on the screw holes on the back sides of the two pieces.



Each group of four screws is tightened close to the center of the board and is compatible with **GRABO V1**, **GRABO V2** and **GRABO Pro**.

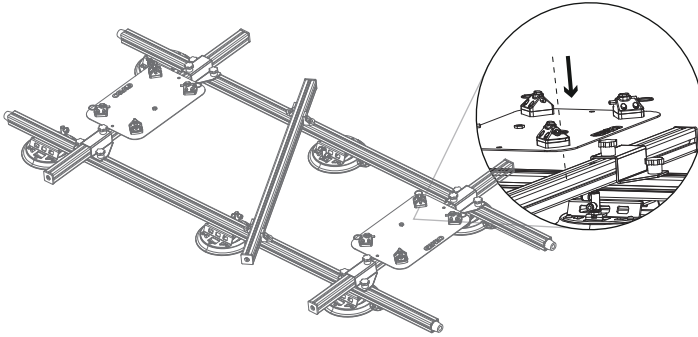


Each group of four screws is tightened against the four corners of the board and is compatible with **GRABO PRO BRUSHLESS**.

* Default shipping status

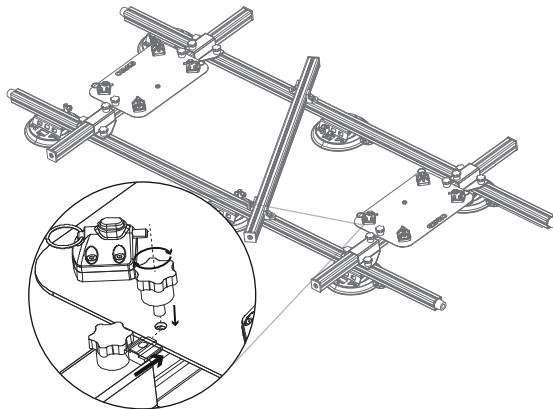
1. **Position Baseplate:**

Place an Aluminum Baseplate onto a 1M Aluminum Alloy profile.



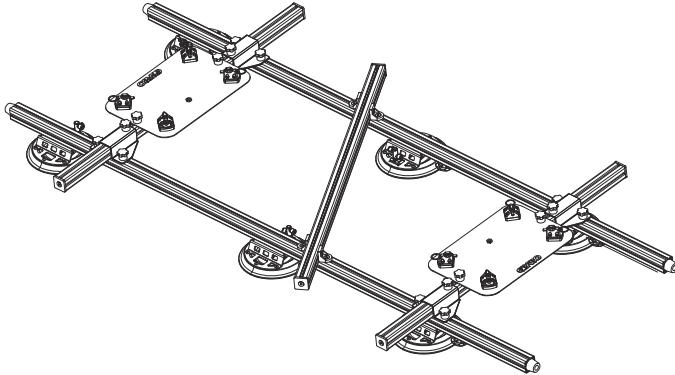
2. **Fasten with Thumbscrews:**

Fasten the M8x15 Rosette Thumbscrews through the Aluminum Baseplate into the M8 Slide Nuts as shown in the accompanying illustration. Move the M8 Sliding Nut to the appropriate position to install it.



3. **Repeat the Remaining Aluminum Baseplate:**

Repeat steps 1-2 to install the remaining aluminum baseplate.



Step 3: Install the Handles (Optional)

Note: Handle installation is optional. If Handles are not required, proceed to the next step.

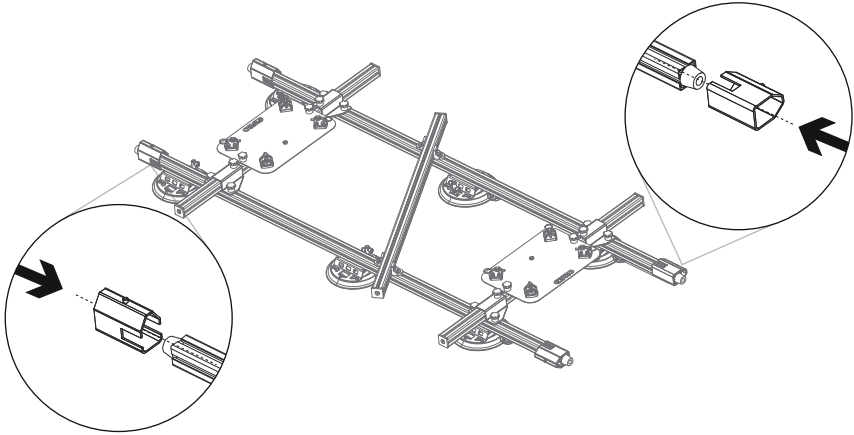
Materials Needed:

- 4x M8x35 Rosette Thumbscrews
- 4x M6x10 Rosette Thumbscrews
- 4x Handles
- 4x Pipe Locking Clamps

Instructions:

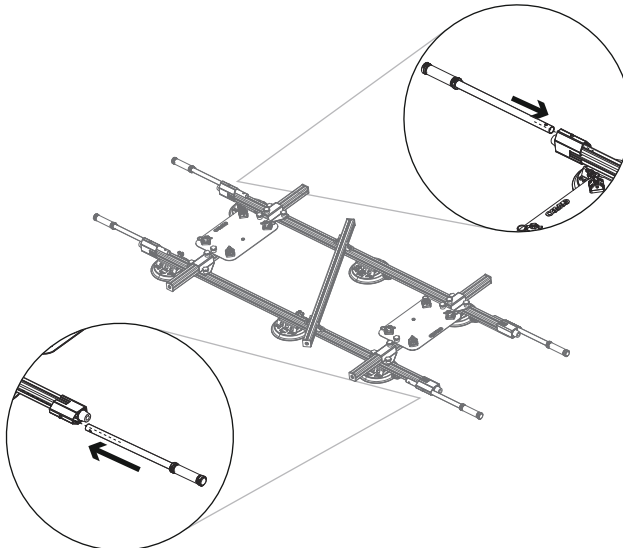
1. Attach Pipe Locking Clamp:

Mount a Pipe Locking Clamp onto the end of a 2M Aluminum Alloy profile, aligning it with the end.



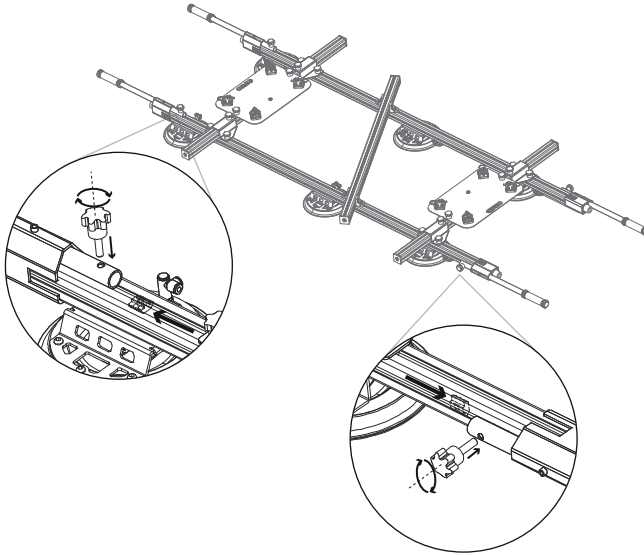
2. Insert Handle:

Insert a Handle into the Pipe Locking Clamp.



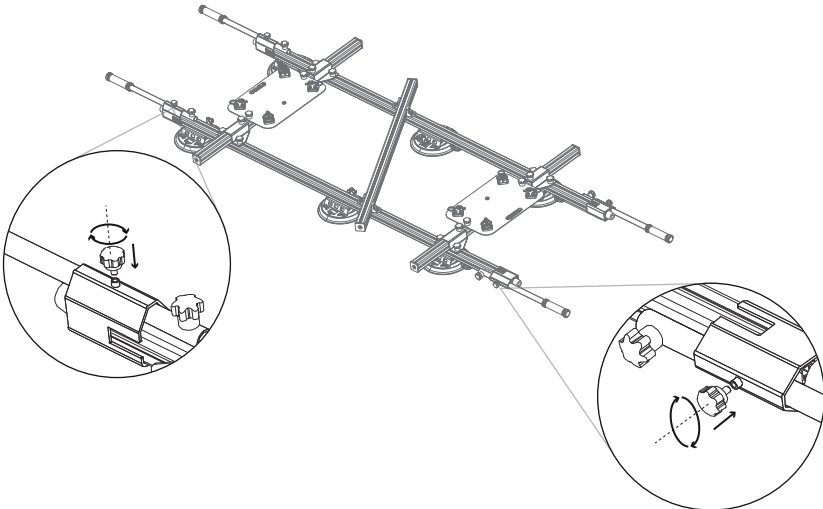
3. **Fasten with M8 Thumbscrew:**

Fasten a M8x35 Rosette Thumbscrew through the Handle and into a M8 Slide Nut on the profile. Move the M8 Sliding Nut to the appropriate position to install it.



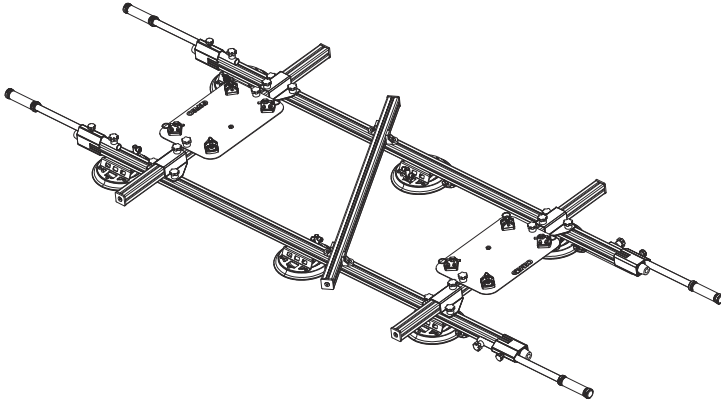
4. **Secure with M6 Thumbscrew:**

Insert a M6x10 Rosette Thumbscrew through the Handle and the Pipe Locking Clamp, then tighten the thumbscrew to securely attach the components to the 2M Aluminum Alloy Profile.



5. **Repeat for Remaining Handles:**

Repeat steps 1-5 to install the remaining 3 Handles.



Step 4: Install the 4-Inch Roller Pulley Assemblies

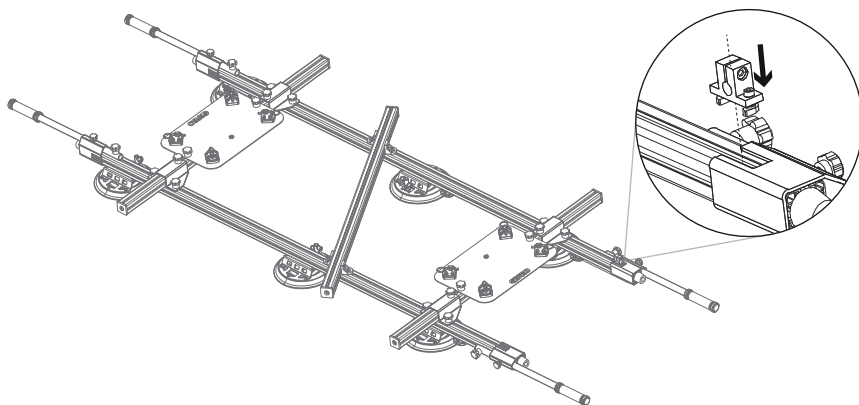
Materials Needed:

- 2x Fixing Seats
- 2x 4-Inch Roller Pulley Assemblies
- 4x Locking Rings
- 1x 1M Support Rod
- 2x Rubber Plugs
- 1x 4mm & 5mm_Allen key

Instructions:

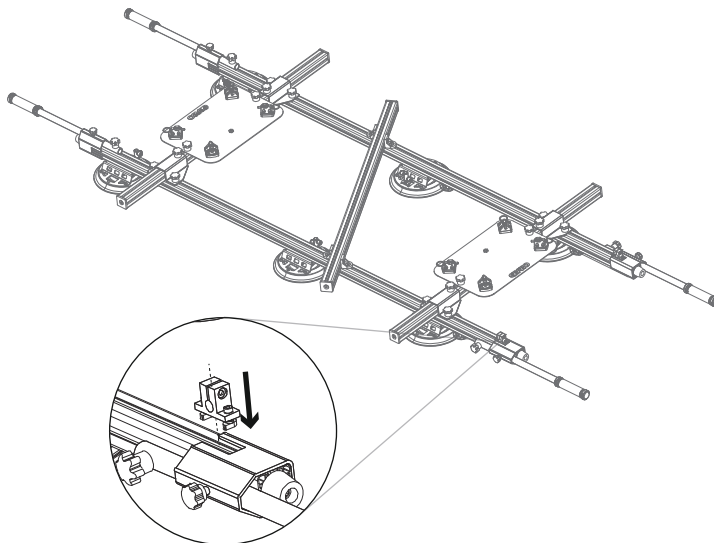
1. Secure First Fixing Seat:

Secure one Fixing Seat onto a 2M Aluminum Alloy Profile (profile 1) as shown in the accompanying diagram.



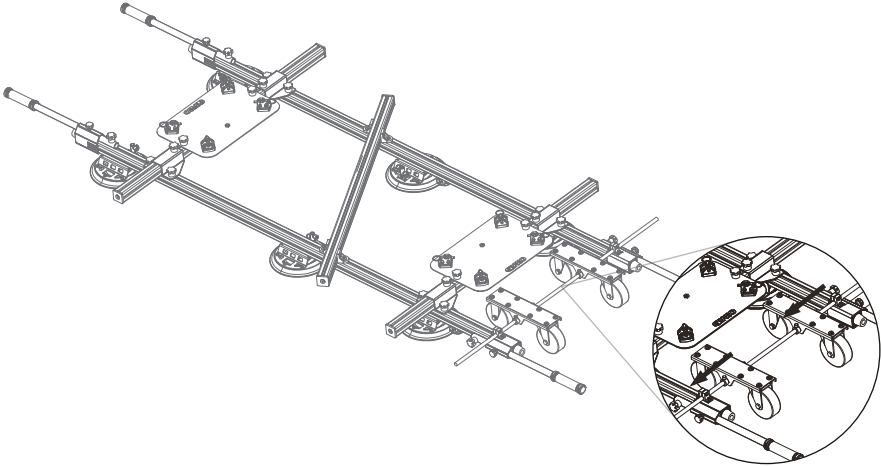
2. Position Second Fixing Seat:

Place the second Fixing Seat on the other 2M Aluminum Alloy Profile, but do not tighten it yet.



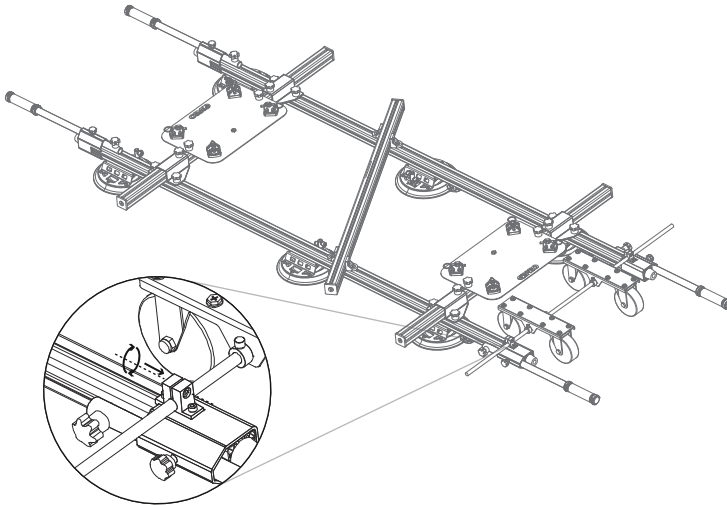
3. Assemble Support Rod:

Slide the 1M Support Rod through the following components, in order from right to left (as shown in the diagram): the first Fixing seat, a Lock Rings, a 4-Inch Roller Pulley Assemblie, another Locking Ring, the Second 4-Inch Roller Pulley Assembly, another Locking Ring, and finally the Second Fixing Seat.



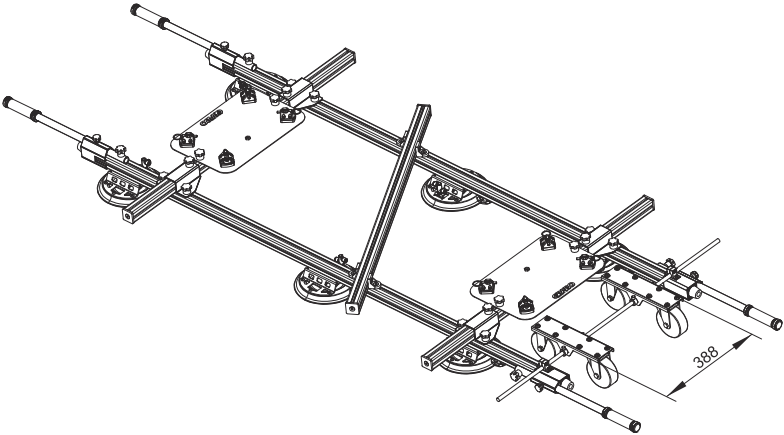
4. Tighten Fixing Seats:

Tighten both Fixing Seats to lock the 1M Support Rod in place. Tighten the screws with a 4mm & 5mm_Allen key.



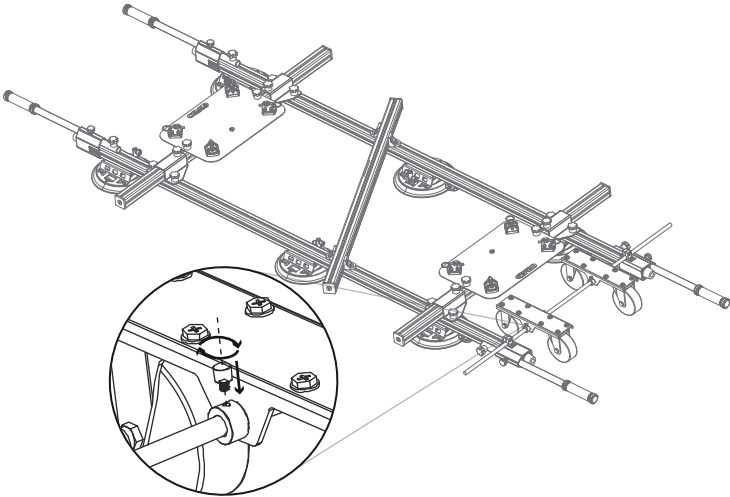
5. **Position Pulley Assemblies:**

Position the 4-Inch Roller Pulley Assemblies as desired.



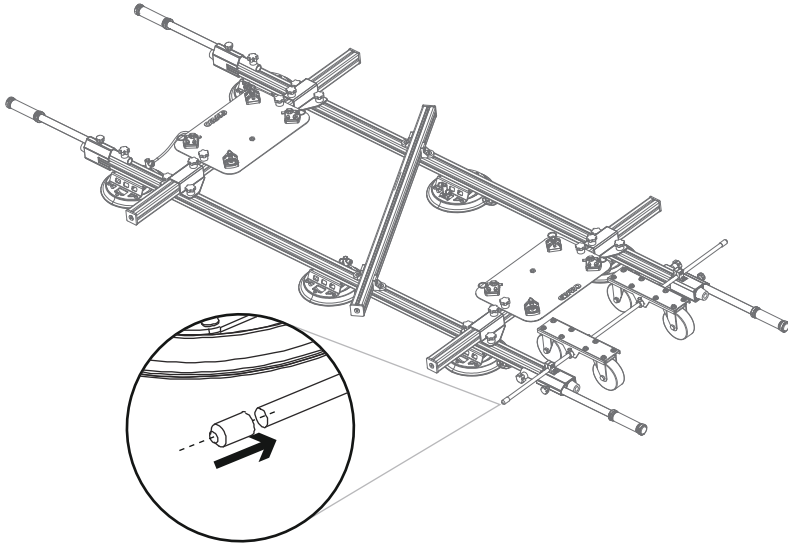
6. **Secure Pulley Assemblies:**

Tighten the Locking Rings to firmly secure both 4-Inch Roller Pulley Assemblies.



7. Insert Rubber Plugs:

Insert the two Rubber Plugs into both ends of the 1M Support Rod.



Step 5: Connect the PU Air Pipes

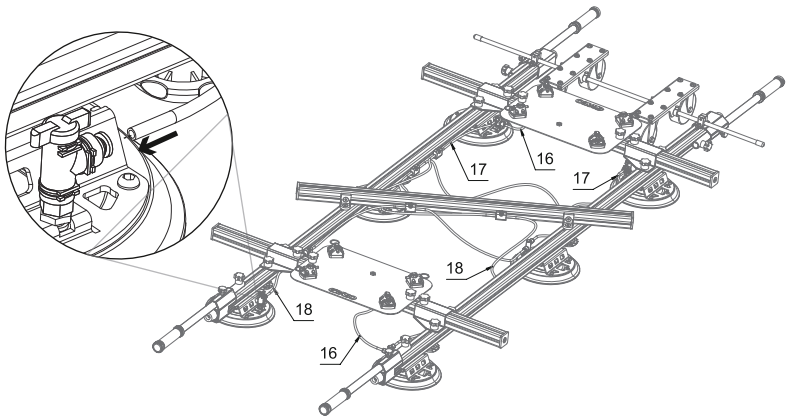
Materials Needed:

- 2x $\phi 6 \times \phi 4 \times 360$ MM PU Air Pipes (Tube 16)
- 2x $\phi 6 \times \phi 4 \times 1100$ MM PU Air Pipes (Tube 17)
- 2x $\phi 6 \times \phi 4 \times 1300$ MM PU Air Pipes (Tube 18)
- 9x Aluminum Alloy Pipe Clamps (19)
- 1x 5mm_Allen key

Instructions:

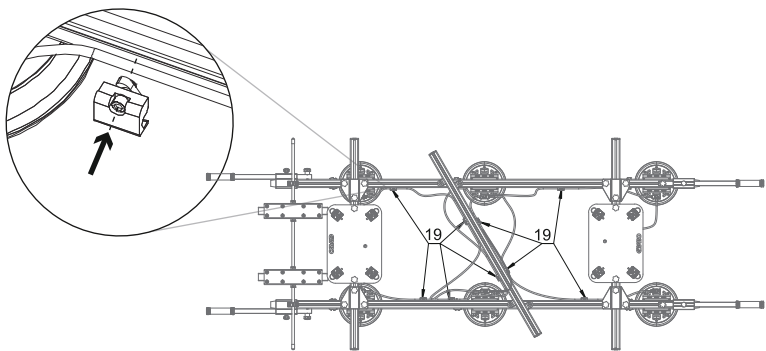
1. Connect Air Pipes:

Connect the PU Air Pipes to the corresponding connectors as indicated in the accompanying diagrams (noted as Figure 19 for the Pipe Clamps). Refer to the labels "Tube 16," "Tube 17," and "Tube 18" for the correct pipe lengths.



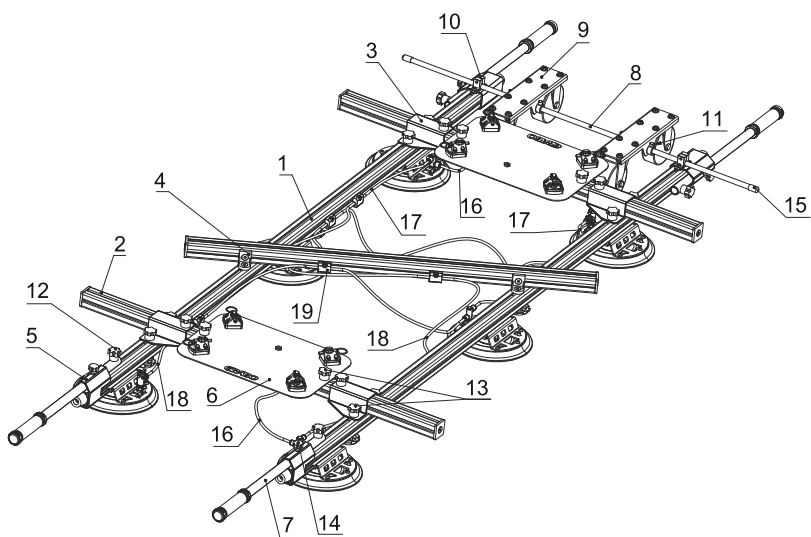
2. Install Pipe Clamps:

Install the Aluminum Alloy Pipe Clamps to secure the pipes in place, as shown in Figure 19. Tighten the screws with a 5mm_Allen key.



Part List

NO.	Part name	Quantity
1	2M Aluminum Alloy Profiles with Suction Cups	2
2	1M Aluminum Alloy Profiles	3
3	Standard Riding Pieces	4
4	Aluminum_Profile_Connectors	4
5	Pipe Locking Clamps	4
6	Aluminum Baseplates	2
7	Handles	4
8	1M Support Rod	1
9	4-Inch Roller Pulley Assemblies	2
10	Fixing Seats	2
11	Locking Rings	4
12	M8X35 Rosette Thumbscrews	4
13	M8X15 Rosette Thumbscrews	16
14	M6X10 Rosette Thumbscrews	4
15	Rubber Plugs	2
16	φ6xφ4x360MM PU Air Pipes	2
17	φ6xφ4x1100MM PU Air Pipes	2
18	φ6xφ4x1300MM PU Air Pipes	2
19	Aluminum Alloy Pipe Clamps	9
20	28x M8 Slide Nuts	28
21	4mm_Allen key	1
22	5mm_Allen key	1
23	3mm Allen key	1
24	Open-end wrench for M4 nut	1



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