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› COKYIS MB-AL Series MVS Suction Cup Fixing Flat Connector Fixture Bracket User Manual - Model MB-A12L-60

## COKYIS MB-A12L-60

# COKYIS MB-AL Series MVS Suction Cup Fixing Flat Connector Fixture Bracket

MODEL: MB-A12L-60

## 1. Introduction

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This manual provides instructions for the proper installation, operation, and maintenance of the COKYIS MB-AL Series MVS Suction Cup Fixing Flat Connector Fixture Bracket, Model MB-A12L-60. This component is designed as an accessory for air pneumatic manipulators, facilitating the secure attachment of MVS suction cups to manipulator arms or other compatible structures. Adherence to these instructions ensures optimal performance and longevity of the product.

## 2. Safety Information

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- Always ensure that all pneumatic systems are depressurized before installing or removing this bracket.
- Wear appropriate personal protective equipment (PPE) during installation and maintenance.
- Verify that all fasteners are securely tightened to prevent accidental detachment during operation.
- Do not exceed the recommended load capacity of the manipulator or the attached suction cup.
- Inspect the bracket regularly for signs of wear, damage, or corrosion. Replace if any damage is observed.

## 3. Package Contents

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- 1 x COKYIS MB-AL Series MVS Suction Cup Fixing Flat Connector Fixture Bracket (Model MB-A12L-60)
- Necessary mounting screws/fasteners (as supplied)

## 4. Product Overview

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The MB-A12L-60 bracket is constructed from durable material, designed for robust performance in industrial pneumatic applications. It features a clamping mechanism for attachment to a manipulator arm and a flat surface with pre-drilled holes for securing an MVS suction cup.



Figure 1: Side view of the MB-A12L-60 bracket, illustrating the clamping mechanism and the flat connector for suction cup attachment.

## 5. Setup and Installation

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1. **Prepare the Manipulator Arm:** Ensure the manipulator arm or mounting surface is clean and free from obstructions.
2. **Attach the Bracket:** Position the circular clamping section of the MB-A12L-60 bracket onto the designated part of the manipulator arm. Use the provided screw to tighten the clamp securely. Ensure the bracket is oriented correctly for the intended application.
3. **Mount the MVS Suction Cup:** Align the mounting holes of the MVS suction cup (sold separately) with the pre-drilled holes on the flat connector surface of the bracket. Secure the suction cup using appropriate fasteners (typically supplied with the suction cup or manipulator system).
4. **Verify Security:** Gently test the stability of the installed bracket and suction cup to confirm all connections are firm and there is no excessive movement.



Figure 2: The MB-A12L-60 bracket shown installed on a manipulator system, demonstrating its application with a suction cup.

## 6. Operating Instructions

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The MB-A12L-60 is a passive fixture bracket. Its operation is directly tied to the pneumatic manipulator system it is integrated with. Once securely installed, ensure that the attached MVS suction cup functions correctly according to its own specifications and the manipulator's programming. Regular checks for alignment and secure fastening are recommended before and during operation.

## 7. Maintenance

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- **Cleaning:** Periodically clean the bracket surface with a soft, dry cloth to remove dust and debris. Avoid using harsh chemicals that may damage the material finish.
- **Fastener Inspection:** Regularly check all mounting screws and fasteners for tightness. Re-tighten if necessary, but do not overtighten.
- **Wear and Damage:** Inspect the bracket for any signs of wear, cracks, deformation, or corrosion. Any damaged components should be replaced immediately to maintain system integrity and safety.

## 8. Troubleshooting

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- **Bracket is Loose:** If the bracket moves or vibrates during operation, check the clamping screw for tightness. Ensure it is properly secured to the manipulator arm.

- **Suction Cup is Loose:** If the attached MVS suction cup is not firmly fixed, verify that its mounting screws to the bracket are tightened correctly.
- **Misalignment:** If the suction cup is misaligned, loosen the bracket's clamping screw, adjust the bracket's position, and then re-tighten. Ensure the manipulator arm itself is correctly calibrated.

## 9. Specifications

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<b>Model Number</b>	MB-A12L-60
<b>Brand</b>	COKYIS
<b>Item Weight</b>	1.76 ounces (50 grams)
<b>Package Dimensions</b>	1.18 x 0.79 x 0.39 inches (3 x 2 x 1 cm)
<b>Number of Pieces</b>	1
<b>Assembly Required</b>	No (for the bracket itself)

## 10. Warranty and Support

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For warranty information and technical support, please refer to the documentation provided with your original purchase or contact your COKYIS product supplier. Keep your purchase receipt for warranty claims.