

## A-ESD Balancer Support Arm

The A-ESD Balancer Support Arm is a modular workstation accessory designed to securely hold and position an ESD gun. It provides stability, adjustability, and protection in electrostatic discharge (ESD) sensitive environments, ensuring safe and efficient operation.



- Custom ESD simulator adapter to fit on your table.
- Tabletop or floor-standing mounting options are available.
- Easily adjustable to fit your workspace.

### Reliable Load Capacity:

- Supports 1-2 kg (2.2-4.4 lbs) ESD simulators.

### Durable & Lifetime Warranty:

- All 3D-printed parts from Absolute EMC come with a lifetime replacement warranty.

Custom colors are available on demand.

## Key Features

### Non-Metallic Design:

- Made from 1.5" fiberglass tubes for strength and durability.
- 3D-printed components: carriage, holder, and base.
- Plastic balancer housing and string (only the internal spring is metallic).

### Fully Compliant with ESD Testing Standards:

- The only system that meets the metal-free area requirements of IEC 61000-4-2, MIL-STD-461 CS118, ISO, and other standards.







### Full Range of Motion & Customization:




- 360° pivoting support arm for flexible positioning.

## ESD Balance System Specifications

Product Specification	Details
<b>Support Arm Material</b>	Non-metallic 1.5 in fiberglass tubes
<b>3D-Printed Components</b>	Cage, holder, and base, PLA Plastic
<b>ESD Simulator Compatibility</b>	Custom adaptation for ESD gun simulator
<b>Balancer Construction</b>	Plastic housing with string; spring is the only metallic component
<b>Mounting</b>	Customized table attachment included (Please send pictures and dimensions of your table edge with the order)
<b>Color</b>	Purple and green
<b>Dimensions</b>	Height: 60 in; Width: 72 in
<b>Weight</b>	Approximately 5 lb.

## Product Components

Product Name	Description	Picture
<b>A-ESD Base Clamp</b>	3D printed clamp	
<b>A-ESD Base Bracket</b>	Base Bracket and Base	
<b>A-ESD Base Screws</b>	3D-printed screws for the connection of the base clamp	
<b>A-ESD Poles</b>	Both poles are 1.5 in in diameter. 5 ft long	
<b>A-ESD Cross Poll Adaptor</b>	For connecting the vertical and horizontal balancer arms together. Sits on top of A-ESD Stop Ring for free rotation.	
<b>A-ESD Stop Ring</b>	Stop Ring used to hold up A-ESD Cross Poll Adaptor	

Product Name	Description	Picture
<b>A-ESD Tool Balancer &amp; Arm Shuttle</b>	Adjustable Tool Balancer with Plastic housing and fabric pull string.	
<b>A-ESD Holding Fixture</b>	Pictured universal ESD holder. Specific version for Haefely ONYX available. This unit comes fully pre-assembled	
<b>A-ESD End Cap Stop</b>	End Cap on horizontal balancer arm	

## Assembly Instructions: ESD Pole & Base Positioning Bracket

### 1. Prepare the Components

Gather the Base Clamp, ESD Pole and Base Positioning Bracket, supplied screws, poles, travel stop, Multi-Axis Pole Holder, Retractable Swing Arm, ESD Gun Holding Fixture, and the required hand tools.

### 2. Attach the Positioning Bracket to the Base Clamp

Align the ESD Pole and Base Positioning Bracket with the Base Clamp. Insert the supplied screws and loosely fasten the components together.

### 3. Mount the Assembly to the Table

Position the assembled Base Clamp and Positioning Bracket onto the table. Insert the mounting screws and loosely tighten them to hold the assembly in place.

### 4. Secure the Base Assembly

Using a hand tool, fully tighten all screws on the Base Clamp and Positioning Bracket.

### 5. Adjust the Front Positioning Screw

Adjust the front screw on the ESD Pole Positioning Bracket until there is no gap between the table and the bracket. This ensures proper support and stability.

### 6. Install the First Pole

Insert the first pole into the ESD Pole and Base Positioning Bracket. Confirm that the pole is seated correctly.

**7. Install the ESD Pole Travel Stop**

Slide the ESD Pole Travel Stop onto the second pole at the desired position. Ensure the round section of the travel stop is **not facing** the Multi-Axis Pole Holder.

**8. Tighten the Travel Stop Screws**

Secure the travel stop in place by tightening the small screws with a hand tool.

**9. Install the Multi-Axis Pole Holder**

Slide the Multi-Axis Pole Holder onto the pole. Ensure the marking labeled **“TOP”** is facing upward. Tighten the screws to secure the holder in position.

**10. Insert the Second Pole**

Insert the second pole into the vertical opening of the Multi-Axis Pole Holder. Insert the pole approximately halfway to allow easier adjustment during setup.

**11. Perform a Screw Check**

Verify that all screws installed up to this point are fully tightened and secure.

**12. Attach the ESD Retractable Swing Arm**

Slide the ESD Retractable Swing Arm onto the vertical pole. Install the end stop to prevent the swing arm from overextending or sliding off the pole.

**13. Mount the ESD Gun Holding Fixture**

Clamp the ESD Gun Holding Fixture onto the swing arm. Tighten the fixture securely to prevent movement during use.

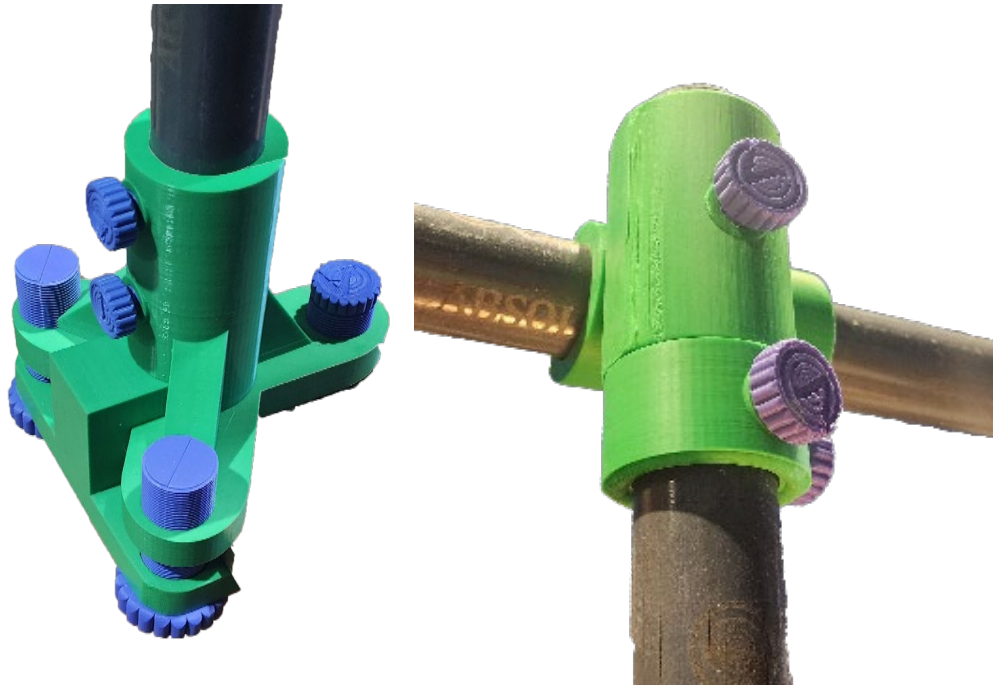
**14. Install the ESD Gun**

Open the Velcro strap on the ESD Gun Holding Fixture. Place the ESD gun into the fixture and close the strap securely around the gun

**15. Final Inspection**

Confirm that the Base Clamp, poles, travel stop, Multi-Axis Pole Holder, swing arm, gun fixture, and ESD gun are all properly secured before use.

Figures



**Balancer Base and Top**



**Balancer Tool Shuttle and Simulator Holder (Haefely ONYX)**