

EurekaTMZone

SMART WOODWORKING SYSTEM

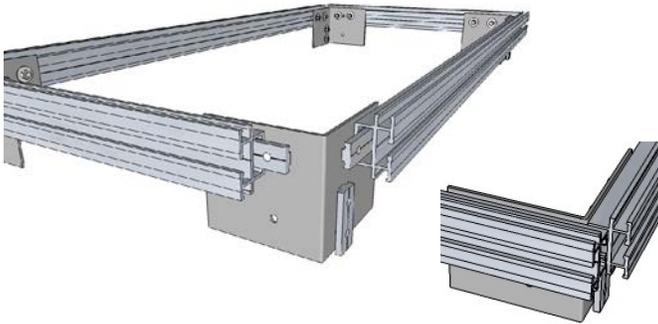


EZSMART

EZ-1 Woodworking Center

When using the EZ-1 Woodworking Center [EZ-1] with any power tool, be sure you have read and understand the operating manual for the tool before operation. Be sure to use the tool safely. Do not disable any built-in safety features. Be sure to follow safe practices when using the EZ-1 with your power tools. If a task seems like it might be potentially unsafe, do not attempt. Do not operate any tool on the EZ-1 if you are tired or distracted in any way.

Step 1 Assemble the Frame Kit



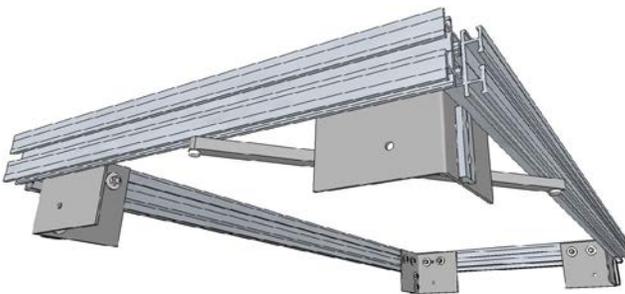
Parts

- 50" Side Rails (2)
- 24" End Rails (2)
- Frame Corner Set (2)

- Assemble as shown. Lightly tighten all nuts.

Note: The end of the End Rails should not block the outer slot of the Side Rails.

Step 2 Square the Frame



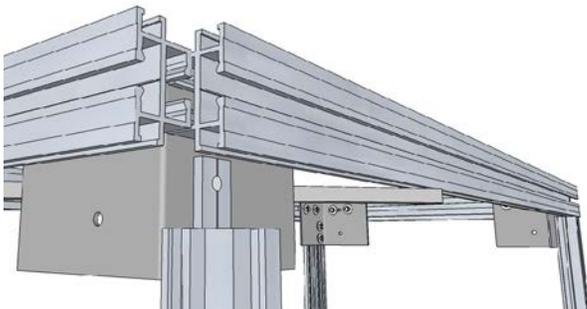
Parts

- Squaring Rod w/ Hardware

- Install Squaring Rod in bottom T-slot of Rails, across one corner.
- Adjust frame as needed until it is square.

Note: The End Rails can be adjusted in the overlapping of the Side Rails to assist in squaring the frame. The frame need not be perfectly square so long as the Sliding Fences are parallel to the front End Rail and the Bridge is perpendicular the Fences and End Rail

Step 3 Attach the Legs



Parts

- 34" Legs (4)

- Install Legs into Framer Corners with wide face of Legs facing outward.
- Tighten nuts on the connectors.

Step 4 Attach Shoes and Braces



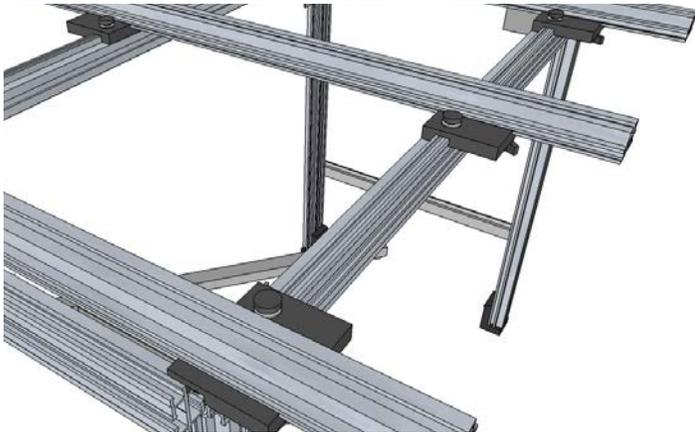
Parts

24" Brace (2) w/ T-slot hardware
Shoes (4)

- Insert Shoes into inner slot of the Legs
- Install Brace using the outer T-slots of the Legs

Note: Shoes are adjustable to accommodate for floor irregularities.

Step 5 Install the Sliding Fences



Parts

Sliding Brackets (3 pair)
48" Squaring Fence
44" Sliding Fence (2)

- Install Sliding Brackets for the Squaring Fence with the top knob facing away from the front end of the Frame. The other sets have the knob facing toward the front end.
- Install the Fences so that the pre-cut kerfs line up with each other.
- Ensure the Squaring Fence is parallel to the front End Rail and square to the Side Rails.
- Adjust as needed for squareness and ease of sliding the fences.

Step 6 Install the Bridge

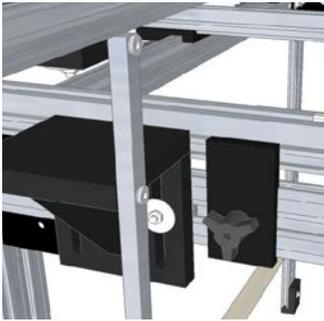


Parts

B-300 Bridge (Front and Rear Units)

- Place the Bridge Units at desired location corresponding to pre-cut kerf in Sliding Fences.
- Slide Rail into Rail Supports of both Bridge Units.
- Raise the Bridge as shown. Rail Support should be 12" from the front of the Rail. Tighten the connectors.
- Lower the Bridge and square the Rail to the Squaring Fence. Make adjustments to Bridge and Rail as needed.

Step 7 Install the Blade Depth Guide



Parts

Blade Depth Guide w/ Knob and Connector

- Install the Blade Depth Guide adjacent to the front unit of the Bridge.

Note: When making a cut, position the material under the Rail and lower the blade of the saw until it just touches the top of the Depth Guide.

Step 8 Fine Tuning

Once the assembly of the EZ-1 is complete, be sure to do some test cuts and make adjustments as necessary.

The Sliding Fences should not bind as they move along the Side Rails. If binding occurs, adjustments may need to be made at the Frame Corners. Verify that the Frame remains square after each adjustment.

If the EZ-1 is moved from one location to another, it is best to check for squareness prior to use.

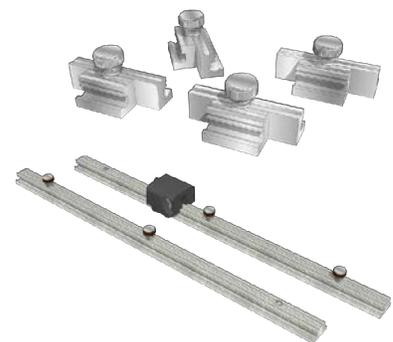
Extras

Sliding Modules: The built-in lip on the Squaring and Sliding Fences allows for a piece of 3/4" plywood to be placed between two fences to serve as a work top or as additional material support. These modules can be made to your desired dimensions. Additionally, custom modules can be made for various woodworking jigs such as for mortise & tenons, dovetails, or for cutting reproducible parts. The open top nature of the EZ-1 allows for maximum versatility to best suit the woodworking task at hand.

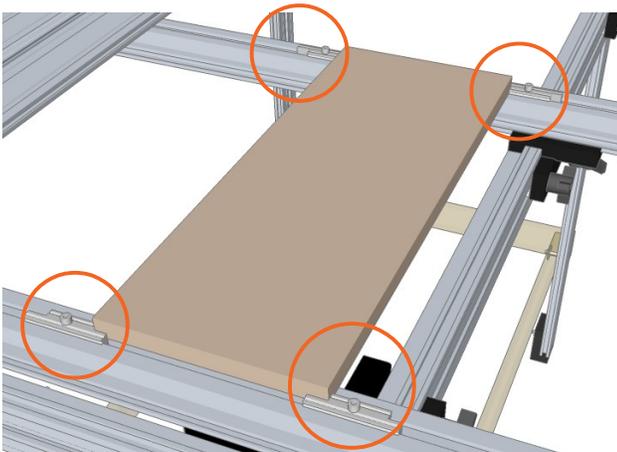
Using the Stops:

1. **Six-Way Stops:** These stops can be used to hold a workpiece in place at its four corners for cutting or routing and can also be used as stops for ripping or cross-cutting.
2. **Sliding Cross-Stop:** These two 18" stops can be used on the Squaring fence to provide a square edge for the workpiece and can also be used on the Sliding Fences as cross-cut stops. The end with the set screws allows positioning under the Bridge.
3. **Limit Stop:** Can be used in conjunction with the Sliding Cross-Stop as a stop block for cross-cutting or ripping.

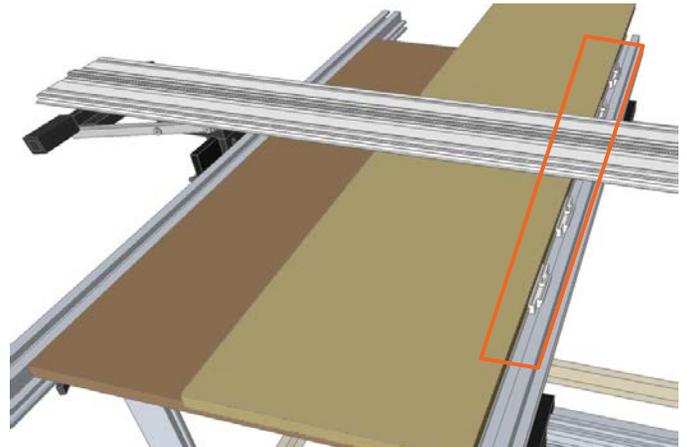
The next page shows some of the many uses for the various stops.



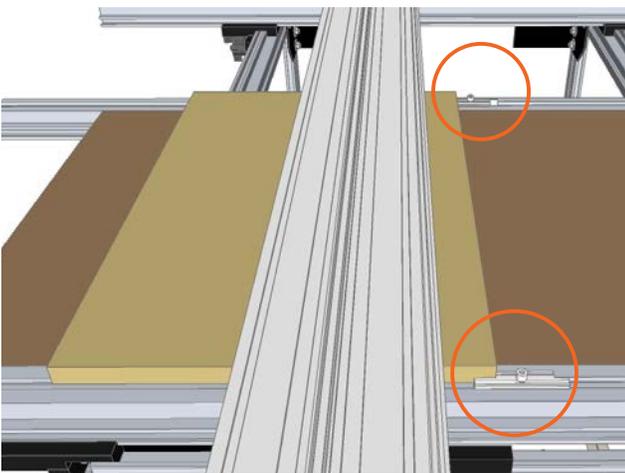
USE OF STOPS



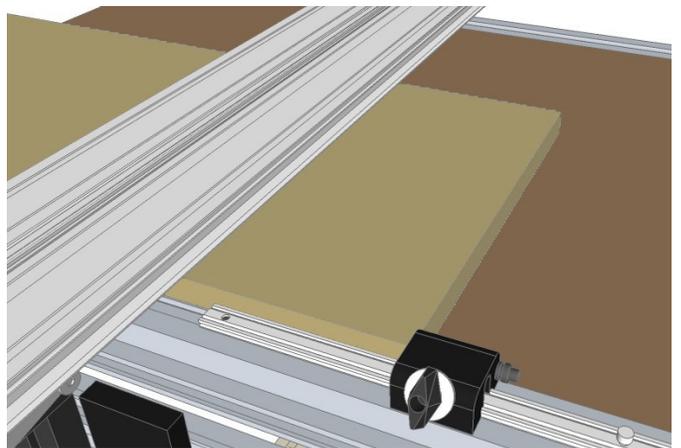
Trapping workpiece using the Six-Way Stops



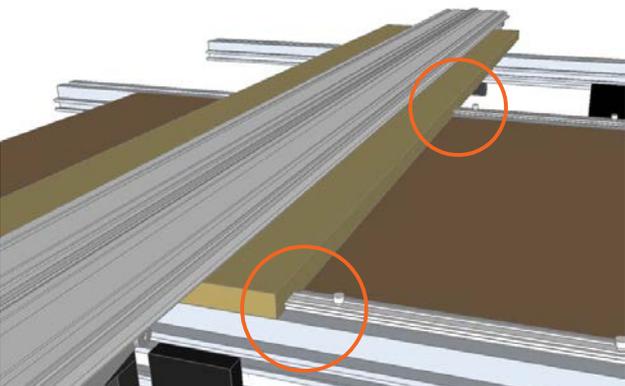
Cross-cutting using the Six-Way Stops



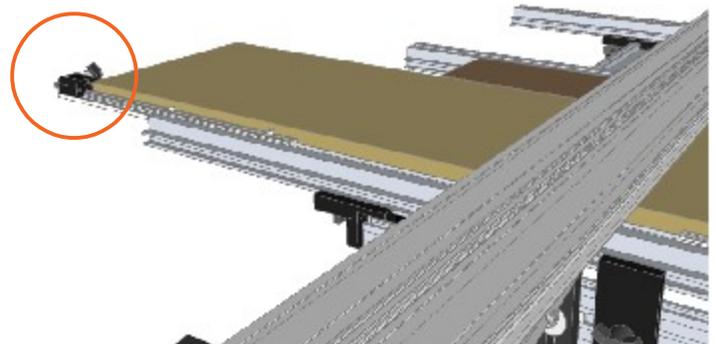
Ripping using the Six-Way Stops



Limit Stop used for cross-cutting or ripping



Using Sliding Stops as fence for ripping



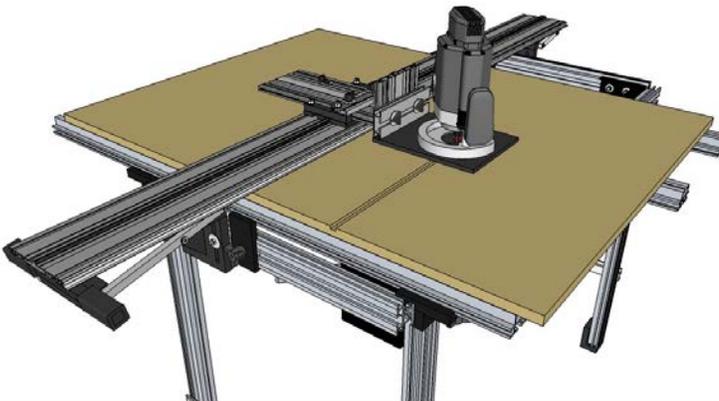
Extending the range using the Limit Stop

OTHER USES

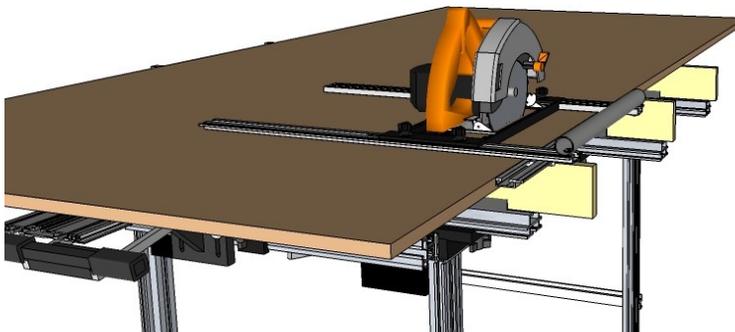
As a versatile workstation, the EZ-1 has many uses beyond cutting with a circular saw on the EZ SMART Guide Rail. It can be combined with other EUREKAZONE products (sold separately) to increase its utility. Below are some of the examples that unlock the potential for the EZ-1.



Assist with clamping and assembly



Routing using the EZ SMART Super Router Kit



Breaking down panels with the EZ-1 Raised Table Top Kit* and the EZ SMART Universal Edge Guide*

* Sold separately

The new EZ SMART Precision Saw Base [Saw Base] can be attached to virtually any standard-size **right-blade** circular saw. The features of the Saw Base allow the saw to be used on the EZ SMART Guide Rails*, off-track for free-hand cuts, or as part of the optional EZ SMART Universal Edge Guide [UEG]*. The replaceable anti-chip inserts (AC-1 and AC-2) allow for smooth cuts on both sides of the blade.

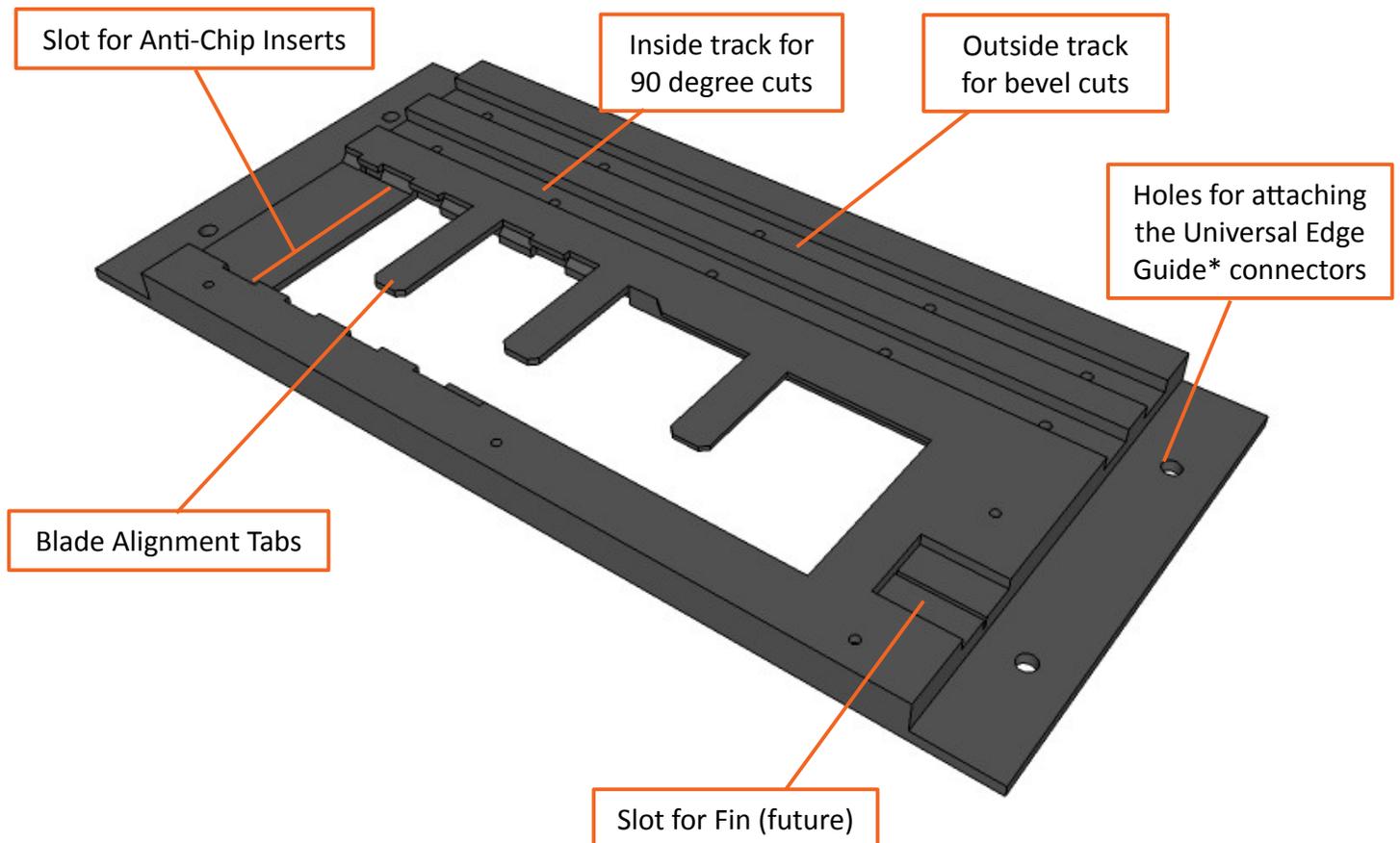
Note: Left-blade saws will require a special custom base, sold separately, from EurekaZone

Parts: Precision Saw Base
AC-1 (flat) Insert – for use off-track and with the UEG
AC-2 Insert – for on-track use
Hardware pack (screws, nuts, etc)

Tools: #8-32 tap set for tapped holes
5/32 drill bit for untapped holes
Double-faced tape or small clamps

Tools not included

Before attaching your saw to the Saw Base, make sure that the saw is unplugged. It is important that you read the manual for your saw prior to use and follow all recommended safety procedures. Modify the opening in the Saw Base as needed to allow full functioning of the blade guard in order to reduce risk of personal contact with the blade.

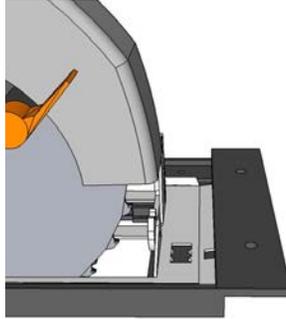


* Sold separately

ATTACHING THE SAW

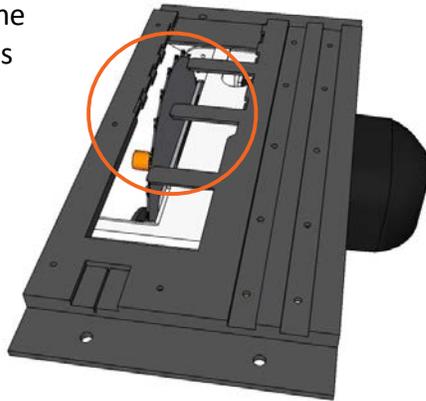
Step 1

Place front of saw plate against the front of the Saw Base



Step 2

Line up body of blade to the ends of the Alignment Tabs



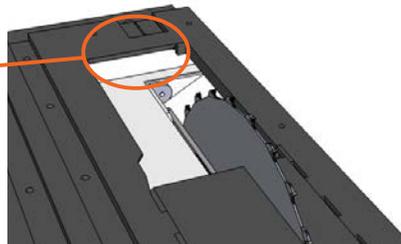
Step 3

Using the pre-drilled holes in the Saw Base as a guide, drill holes into the saw plate

Notes

- Saw Base can be held in place by double-sided tape or with small clamps prior drilling
- Attach the saw to the Saw Base using the supplied screws and nuts.
- If needed, additional countersunk holes may be drilled into the Smart Base for optimal saw attachment.
- Once the Saw Base is attached, the Alignment Tabs may be removed.

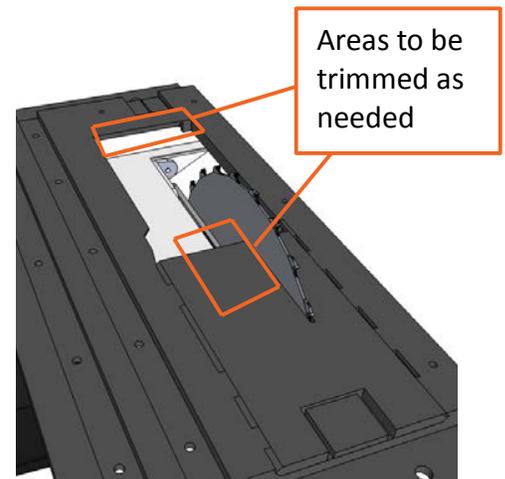
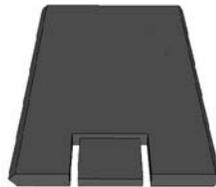
Trim this area to allow full movement of the blade guard



A key feature of the EZ SMART Precision Saw Base [Saw Base] is the interchangeable anti-chip insert. The Anti-Chip Inserts allow for chip-free surfaces on both sides of the blade. The AC-1 Insert is used off-track or with the EZ SMART Universal Edge Guide* and acts as a zero-clearance insert for your saw attached to the Saw Base. The AC-2 Insert is for on-track use and provides anti-chip protection on the outside edge of the blade, with the Anti-Chip Edge* for the EZ SMART Guide Rail* providing anti-chip protection on the inside edge of the blade. Anti-chip protection is only necessary at the front of the blade, corresponding to the size of the teeth.

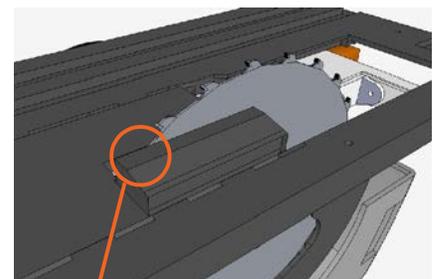
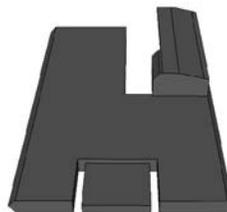
AC-1 (Off-Track) Insert

- Raise the saw blade, and slide the AC-1 Anti-Chip Insert into place.
- Place the saw on a thick piece of scrap wood, turn the saw on, and slowly lower the blade in order to cut a kerf in the Anti-Chip Insert. Turn the saw off and then raise the blade.
- In order to allow the saw's blade guard to function fully, enlarge the opening in the Smart Base as needed and trim the Anti-Chip Insert as needed, keeping the first 1/4"-1/2" of the kerf intact to maintain anti-chip function [See Diagram]



AC-2 (On-Track) Insert

- Setting the saw and base on a section of EZ SMART Guide Rail*, follow a similar process as for the AC-1 for setting up the AC-2 Anti-Chip Insert.
- Trim and file/sand the AC-2 as needed so that blade guard can move freely and so the saw base is parallel to the work surface.

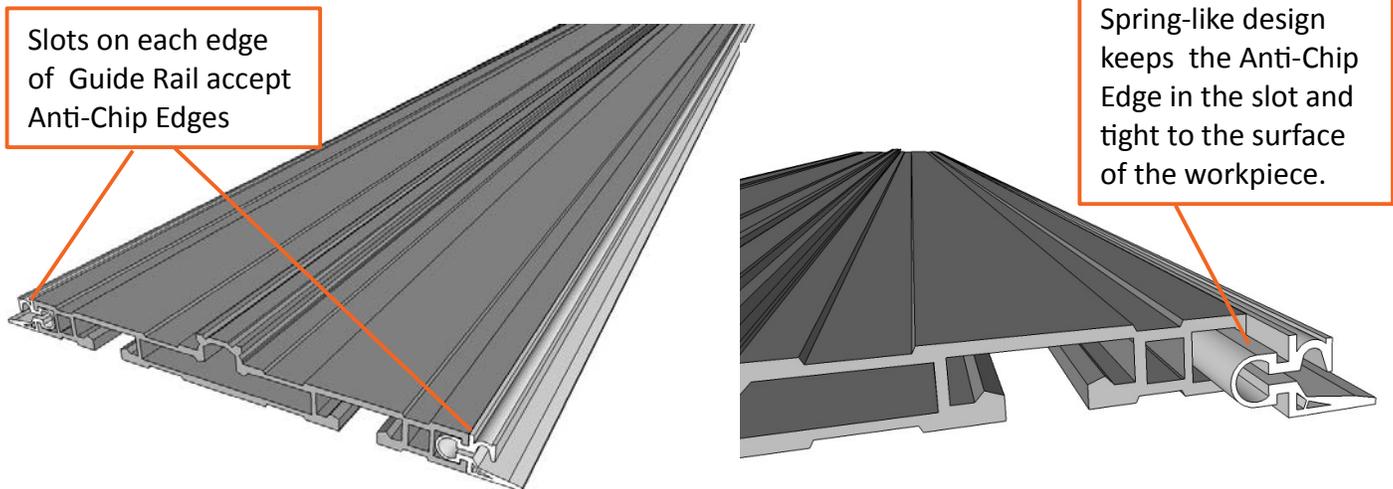


Note: The raised portion of the AC-2 is intentionally slightly thicker than the track. This allows for fine tuning for optimal anti-chip protection

* Sold separately

The Anti-Chip Edges are an important part of the EZ SMART Tracksaw System. The Anti-Chip Edges provide zero-clearance chip protection on the track side of the saw blade. The Anti-Chip Edges also eliminate the need for off-setting the Guide Rail from the cut-line as is common with other saw guides. When setting up for a cut, line up the Anti-Chip Edge with the cut-line to be assured of an accurate cut.

The Anti-Chip Edges come oversized so they can be trimmed for a custom fit for your saw. With the double-side Guide Rail, each Anti-Chip Edge can be set up for a different saw.



Trimming the Anti-Chip Edge

1. Slide the Anti-Chip Edge into the side slot of the EZ SMART Guide Rail.
2. Place Guide Rail on a sacrificial surface. Clamp in place using the EZ SMART Wood Clamps, if desired.
3. Set the saw blade depth for a shallow cut so that the blade just cuts through the Anti-Chip Edge.
4. Start the saw away from the Anti-Chip Edge to avoid chipping the plastic. Move the saw slowly down the Guide Rail until the full length of the Anti-Chip Edge is trimmed.

Tip #1: Tape the Anti-Chip Edge to the sacrificial surface to further eliminate any risk of chipping.

Tip #2: Set up the saw as above, but start at the opposite end of the Guide Rail and slowly move the saw backward along the Guide Rail. This type of cut is generally not recommended due to risk of kickback under normal circumstances, but the shallow cut and the use of the Guide Rail to guide the saw further minimize this small risk.