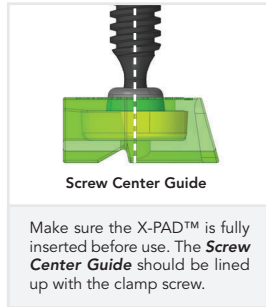## Included in package:

(1) Dovetail Clamp AP

(1) X-PAD™ *(removeable)*

Screw Center Guide

Make sure the X-PAD™ is fully inserted before use. The **Screw Center Guide** should be lined up with the clamp screw.

What you'll need:

Router
1.5 HP or more

1/2"–14° dovetail bit
1/2" shank recommended

Guiding straight edge
or router table fence
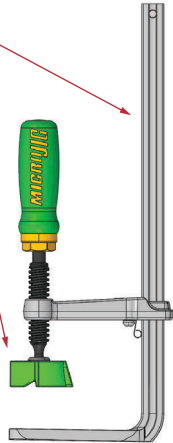
3/4" or thicker
void-free plywood, MDF*, or seasoned solid wood
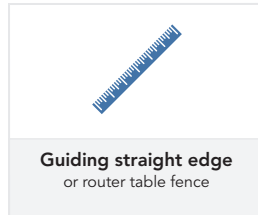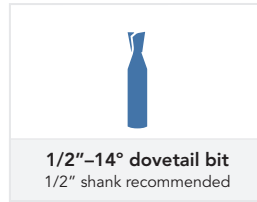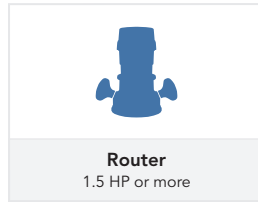
*Standard MDF, *not* ultralight

Routing your own tracks

1. Recommended: Before cutting your 3/8" deep dovetail slot, cut a 1/4" wide by 11/32" deep relief groove—ideally using the **MATCHFIT Relief Bit** (you may also use a table saw or with a 1/4" router bit). This will reduce the wear and stress on the dovetail bit—greatly extending its lifespan and helping to ensure your slots are straight.

11/32"

1/4"
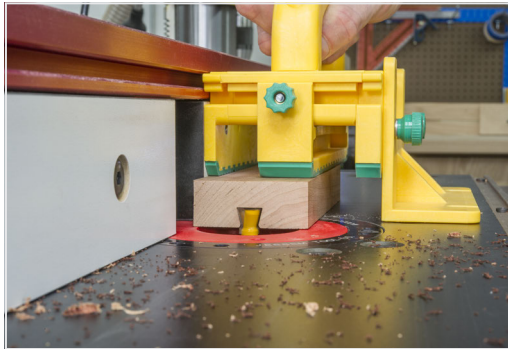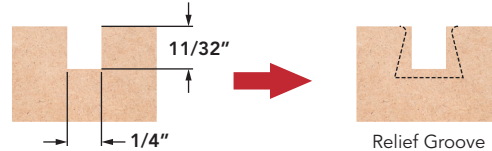
Relief Groove

2. Create a dovetail groove in your workpiece using a router with the **MATCHFIT Dovetail Router Bit** (or 1/2"–14° dovetail router bit).

14°

3/8"

1/2"
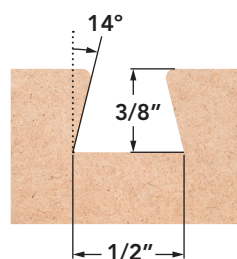
When cutting the dovetail slot, center the bit on the relief groove and set the depth of cut to 3/8". This will create the slot to hold the Dovetail Clamp AP securely below the part's surface.

TIP: Run 1 to 2 cleanup passes for smoother grooves.

3. The head of the MATCHFIT Dovetail Clamp AP is forged 1/2" wide with 14° angles on each side. It slides easily into a 1/2"–14° x 3/8" deep dovetail slot that you can clamp wherever you need.

14°   3/8"
1/2"
Compatible with any
1/2"–14° dovetail router bit.

TIP: For smoother sliding, use a small brush to apply a thin layer of paste wax in the dovetail grooves.

Adjusting Anti-Pivot tension
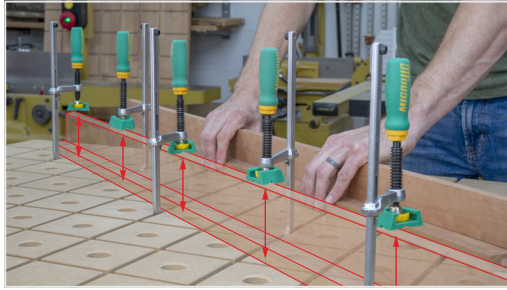
Figure 1: Maintaining arm heights of multiple AP clamps

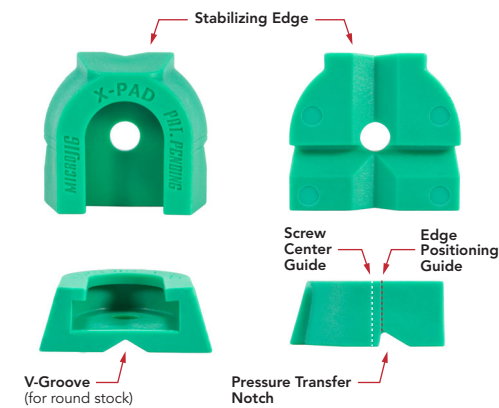**Figure 2:** More tension

Figure 3: Less tension

The Anti-Pivot Coil Spring is designed to maintain the clamp arm's height before inserting and after removing stock material. This allows you to quickly insert large stock or assemblies, and switch from part to part for repetitive processes—without having to reset the height of each clamp being used **[Figure 1]**.

The coil spring should be properly tensioned from the factory. However, you can adjust the coil spring tension by removing the screw at the top of the bar with a **4mm or 5/32 hex wrench** (not included) and removing the clamp arm.
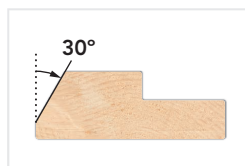
More tension: Gently bend the coil spring away from the screw (toward the bar opening). This will create more tension to keep the arm in position **[Figure 2]**.

Less tension: Gently bend the coil spring toward the screw (away from the bar opening) to allow the clamp arm to move more freely **[Figure 3]**.

Using the X-PAD™

Stabilizing Edge

Screw Center Guide

Edge Positioning Guide

V-Groove (for round stock)

Pressure Transfer Notch

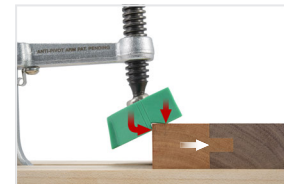**Figure 6:** Round stock

Figure 7: Horizontal spacer

Figure 8: In-line clamping

The X-PAD™ is a removable upgrade that adds another level of functionality for a variety of clamping processes. It allows you to apply two directions of clamping pressure with just one clamp—eliminating the need for two or more different clamps.
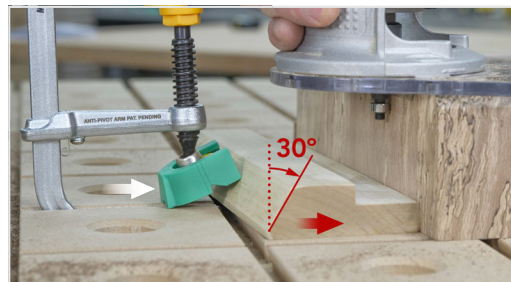

Figure 4: Edge positioning

Figure 5: Simultaneous pressure

To simultaneously apply vertical and in-line clamping pressure, position the X-PAD™ with the **Pressure Transfer Notch** at the top corner of your part, with the **Edge Positioning Guide** in line with the edge of the workpiece, as shown in **[Figure 4]**.

Tighten the clamp and ensure that the X-PAD™ pivots around the corner of the workpiece, with the rear angled wall of the notch pushing against the vertical edge of the workpiece **[Figure 5]**.

Round stock: Turn the X-PAD™ 90° to use the **V-Groove**. Then simply line up the groove and tighten to secure. **[Figure 6]**.

In-line clamping only: To secure a part horizontally with a spacer (to keep the top of the workpiece clear of obstructions), cut a scrap piece of wood thinner than the part you need to secure—with one edge cut to a 30° angle **[Figure 7]**.

Lower the clamp arm so the stabilizing edge is resting on the clamping table, and the front edge of the X-PAD™ is on the **30° edge** of your spacer **[Figure 8]**. Keep pressure on the back of the stabilizing edge using your finger (white arrow) while tightening. This will prevent the X-PAD™ from slipping on the 30° edge.

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