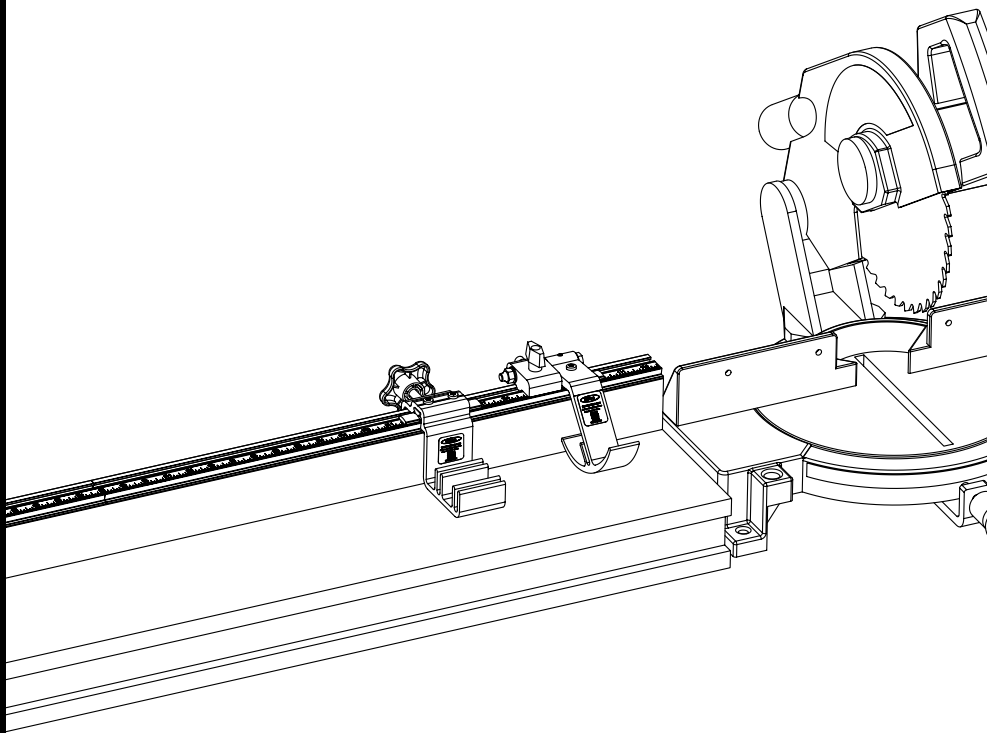




# ***Precision Measuring Systems Kit*** **KM58000**

## **INSTRUCTIONAL MANUAL**



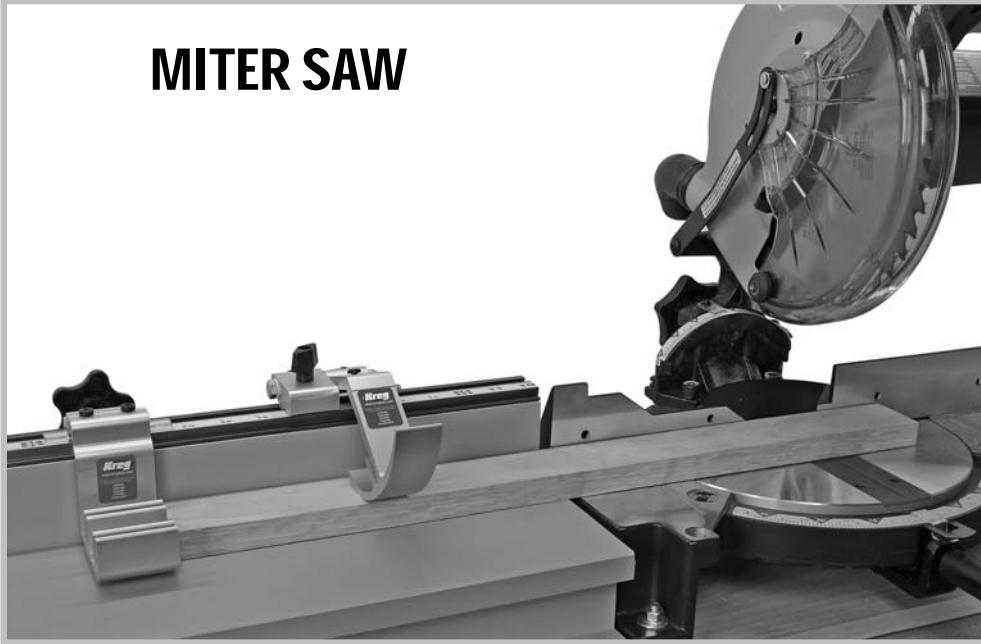
 *The Blue Mark of Quality.*

**Version 2005301**

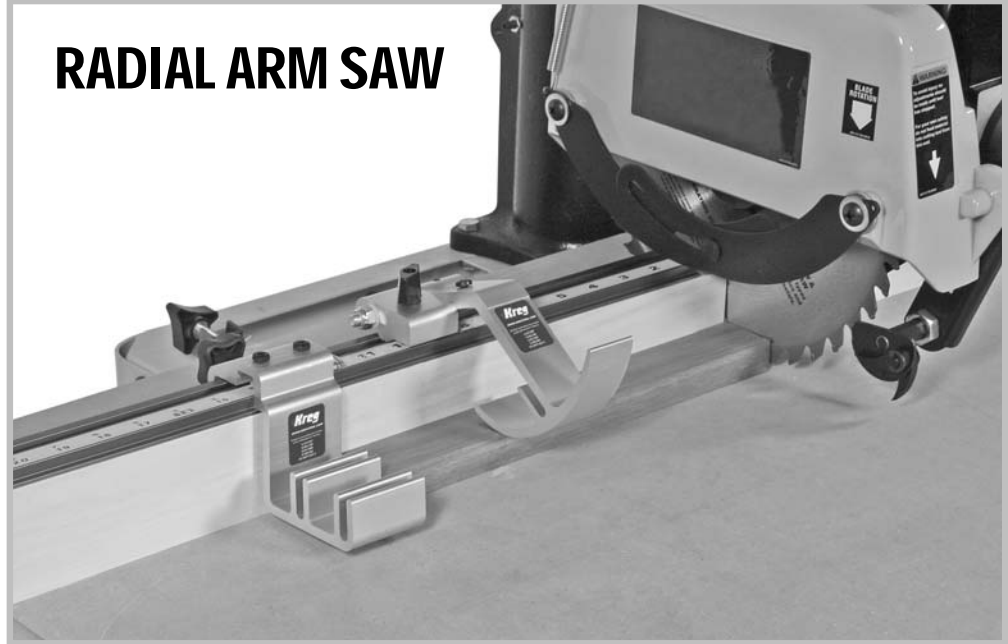
**FT4213**

# APPLICATIONS FOR THE PRECISION MEASURING SYSTEMS KIT

## MITER SAW



## RADIAL ARM SAW



The **Kreg Precision Measuring Systems Kit** contains all the necessary hardware to add a new level of accuracy to your woodworking equipment. Whether you are building a new set of support tables for your **Miter Saw** or replacing the fence on your **Radial Arm Saw**, the unique design of the Top Trak included in this kit attaches to the fence portion of your set-up to provide a calibrated system that will eliminate the need to measure and mark material prior to cutting. These same parts combine with a shop-made **Drill Press** table to provide a repeatable system that will greatly reduce the time required to layout furniture parts or cabinet components.

The **Production Stop** provides a "rock-solid" index point to make one cut, or a thousand cuts, exactly the length desired. The unique design of this stop allows the user to simply lift it from one side of the saw blade or boring bit and move it to the other without the fuss of moving it to the end of a fence.

The **Flipstop** features a "self-elevating" arm that rises over a board to allow for quick trimming of the end without repositioning the stop. This same feature proves invaluable on the Drill Press for multiple stop set-ups.

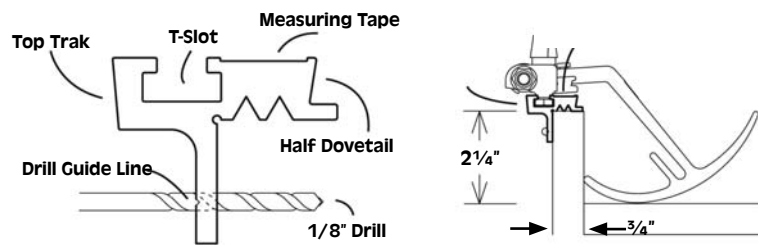
Each stop has an integral **Red-line Cursor** that combines with the **Self Adhesive Measuring Tapes** to provide precise cuts until now only seen on high quality table saws.

Use the pictures on this page to provide a guide to create the perfect Precision Measuring System for your woodworking equipment.

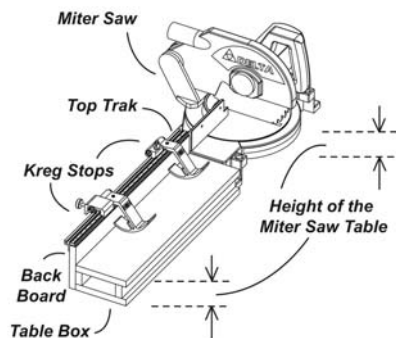
## DRILL PRESS



## 1. Top Trak

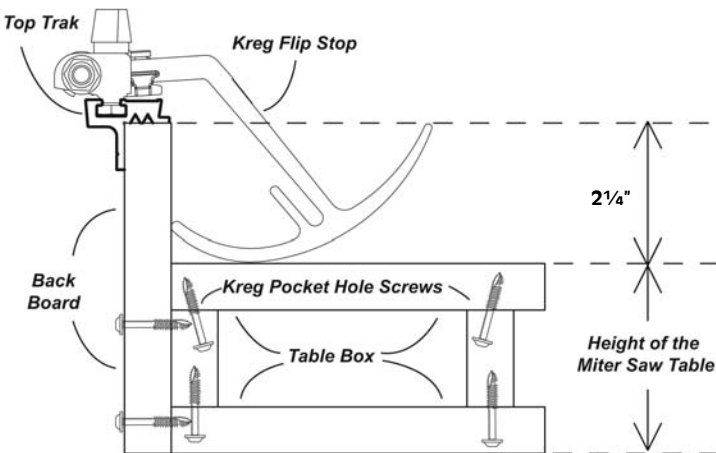


At the heart of the Precision Measuring Systems Kit is the Kreg Top Trak. Top Trak attaches to your 3/4" thick fence component such as melamine, plywood, or other suitable material. A recessed area on top of the track allows you to attach the Measuring Tape while the T-slot provides a means to guide and anchor the Flipstop. The Half Dovetail profile on the front and back of the track anchors the Production Stop. The fence component must be **3/4" x 2-1/4"** for the Top Trak, Flipstop, and Production Stop to function properly. A groove in the rear of the track functions as a drill guide. Drill a 1/8" screw hole, 1" from each end, then space the remaining screw holes evenly between the outside holes for a total of 4 or 5 screws per each 2-foot section. To "connect" the 2-foot Top Trak pieces to form a 4-ft, 6-ft, or 8-ft section simply butt the adjoining pieces and mount in place.

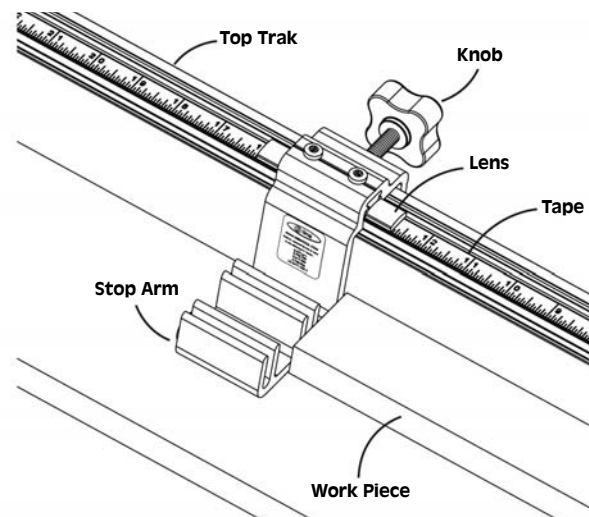


One of the most common applications for the Precision Measuring Systems Kit is combined with a miter saw. The table design, shown at left allows you to customize the table height for your saw. The table box height should be the same as the height of the miter saw table. Table boxes can be placed to the left or right of the miter saw and will support the material being cut as well as provide a mounting surface for the Top Trak.

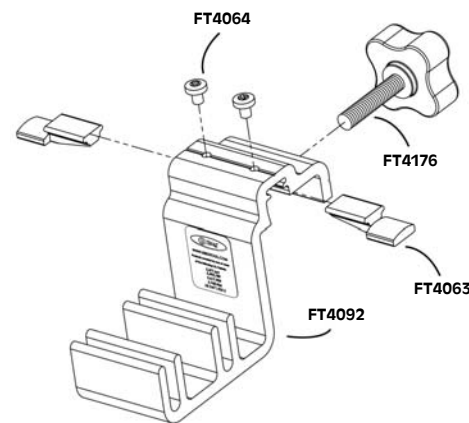
The image below shows an expanded view of the end profile of the image above. The height of the back board should be the height of the table box **PLUS 2-1/4"**. The example below shows a table box that is constructed using pocket hole joinery and pocket hole screws (sold separately). Although this is an effective method of construction for this application it is not the only method that may be utilized. The vertical members that are sized for the miter saw table height are attached to the table box top with pocket hole screws in 15-degree pocket holes. The bottom and the back are attached with pocket hole screws. If you want to learn more about pocket hole joinery consult your local Kreg dealer or visit us on the Web at [www.kregtool.com](http://www.kregtool.com).



## 2. Production Stop



The Production Stop measures and records the distance between the end of the board and the saw blade, drill bit or router cutter. This allows you to easily cut multiple pieces of stock to the exact same length. Cutting numerous pieces to the exact length without measuring is easy. Gently press the end of the board opposite the blade against the side of the stop arm as shown at left. The Production Stop can be secured anywhere along the Top Trak, easily lifted off the top of the track and repositioned on the opposite side of the blade. The Production Stop features two adjustable lens cursors that can be set independently to read accurately off of either side of the blade.



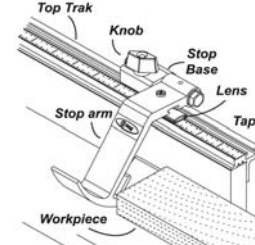
### ASSEMBLE THE STOP

Part#	Qty.	Description
FT4092	1	Stop Arm
FT4063	2	Lens
FT4064	2	10-32 x 1/4" Nylon Screw
FT4176	1	Threaded Knob

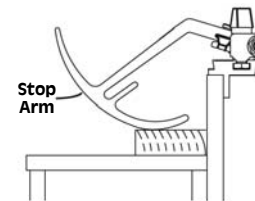
### Refer to the exploded diagram above for parts identification.

1. Screw the threaded knob through the back of the stop base.
2. Place the stop base onto the top of the track and tighten the threaded knob so the stop seats into the half dovetail on the front edge of the Top Trak.
3. Insert both lenses into the lens slot on either side of the stop. Set each cursor approximately 3/8" from the edge of the Stop Arm.
4. Insert and tighten each of the 10-32 x 1/4" Nylon Screws to hold the lenses in place.

## 3. Flipstop

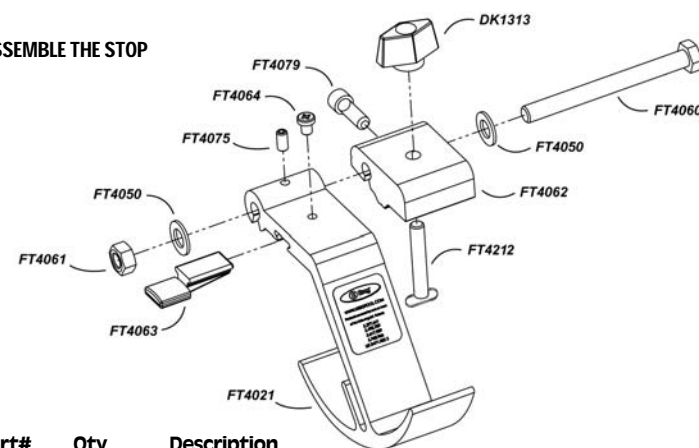


The Flipstop measures and records the distance between the end of the board and the saw blade, drill bit or router cutter. This allows you to easily cut multiple pieces of stock to the exact same length. Cutting numerous pieces to the exact length without measuring is easy. Gently press the end of the board opposite the blade against the side of the stop arm as shown at left. The Flipstop can be secured anywhere along the track. The Flipstop Arm can be assembled on either side of the Stop Base knob although it must be positioned between the Stop Base and the saw blade.



The curved Flipstop Arm is designed to rise automatically when a board is pushed against the front of the stop arm as shown at left. The Flipstop Arm rests on top of the work piece until the board underneath is removed. When the board is removed or moved to the side of the Flip Stop the Stop Arm drops down and is again ready to be used as a stop.

### ASSEMBLE THE STOP



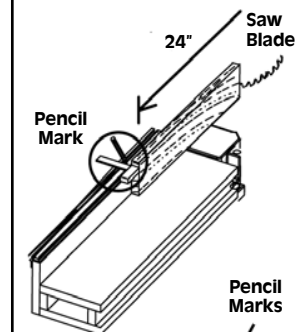
Part#	Qty.	Description
DK1313	1	Black T-Knob
FT4021	1	Flipstop Arm
FT4050	2	5/16" Delrin Washer
FT4212	1	1/4-20 x 1-1/4" T-Bolt
FT4060	1	5/16" - 24 x 3-1/4" Hex Head Bolt
FT4061	1	5/16" - 24 Nyloc Nut
FT4062	1	Stop Base
FT4063	1	Lens
FT4064	1	10-32 x 1/4" Nylon Screw
FT4204	1	10-32 x 3/16" Half Dog Point Set Screw
FT4079	1	1/4" - 20 x 1/2" Nylon Hex Socket Screw

### Refer to the exploded diagram above for parts identification.

1. Push the 1/4" x 1-1/4" T-bolt up through the bottom of the Stop Base. Slide the head of the bolt into the groove in the Top Trak and tighten with the Black T-Knob.
2. Place a 5/16" Delrin Washer on the 5/16" x 3-1/4" bolt and slide the assembly through the Stop Base and Flipstop Arm. **Make sure the Flipstop Arm is on the same side of the Stop Base as the blade.**
3. Place the second 5/16" Delrin Washer and the 5/16"-24 Nyloc Nut on the end of the 5/16" x 3-1/4" bolt and tighten until the Flipstop Arm is snug but still falls freely.
4. Insert the #10-32 Set Screw in the Flipstop Arm and tighten.
5. Insert the 1/4"-20 x 1/2" Nylon Hex Socket Screw in the back of the Stop Base and gently tighten until the Flipstop Arm falls slowly with gravity when lifted.
6. Locate the Lens in the Flipstop Arm and hold in place with the #10-24 x 1/4" Nylon Screw.

## 4. Measuring Tape

### Locate the Measure Tape



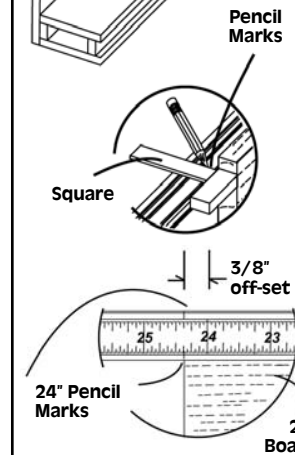
1. Cut a straight 3/4" thick piece of material exactly 24" long by 3" wide.

2. Turn the board on edge and place the board with one end against the teeth of the saw blade as shown at left.

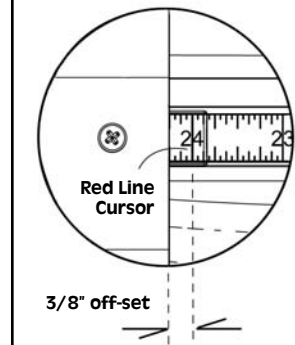
3. Use a square or similar layout tool to place a pencil mark across the top of the fence onto the Top Trak on either side of the indentation for the Self Adhesive Measuring Tape. Butt the square against the reference board so that the pencil marks will be exactly 24" from the blade as shown. If you have placed Top Trak on both sides of the blade repeat the same process for the other side of the blade.

4. Align the 24-3/8" mark of the Self Adhesive Measuring Tape to the pencil mark and adhere the Tape to the indentation along the length of the Top Trak. Cutoff excess tape with scissors.

**Note:** Placing the Tape is much easier if you slice the backing of the Measuring Tape under the 24" mark and fold over to expose only a short amount of the adhesive.



### About the Lens

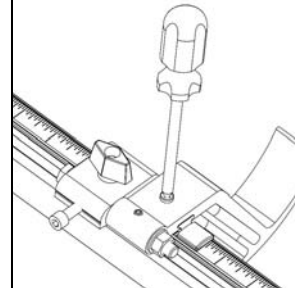


Both the Production Stop and the Flipstop feature an adjustable lens cursor similar to the lens on a quality table saw rip fence.

The lens is a clear material except for a red line (cursor) on the bottom of the lens as shown at left. The red line cursor makes it easy to read the tape lines and fine-tune the stop when compensating for blade thickness variations or a tape that is not perfectly positioned.

**Note:** When placing the self-adhesive tape onto the track, the tape must be placed **3/8" CLOSER TO THE SAW BLADE** to allow the Lens to function properly.

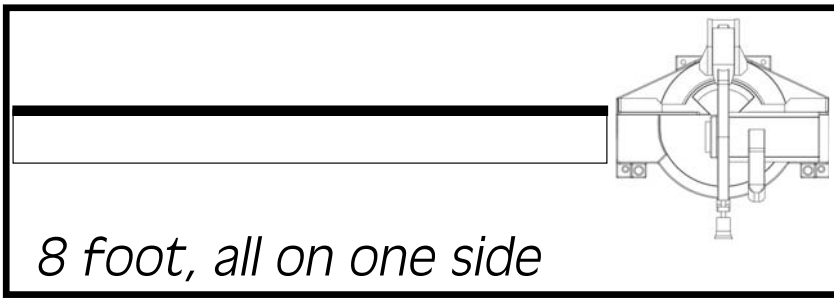
### Set the Cursor



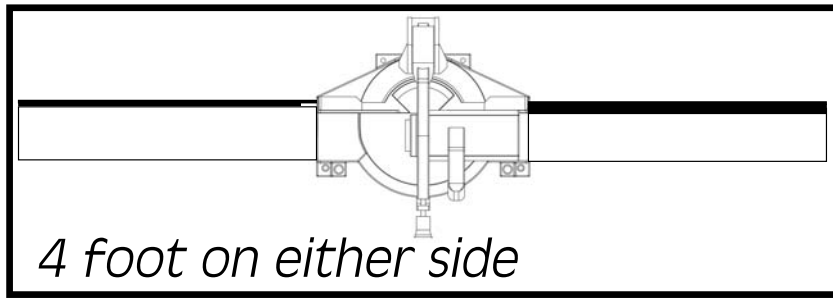
1. Adjust the cursor so it sits about 3/8" from the edge of the stop. The cursor set screw is on top of the stop arm.
2. Measure a piece of scrap wood. The exact length of this scrap is not important. A board about 24" works well because it gives you plenty of room to make some test cuts.
3. Set the stop so the cursor reads a length less than the length of the scrap piece.
4. Cut the scrap board to the new length and measure the cut board.
5. Without moving the stop loosen the cursor set screw and adjust it to read this exact measurement.

## Customize to your Shop

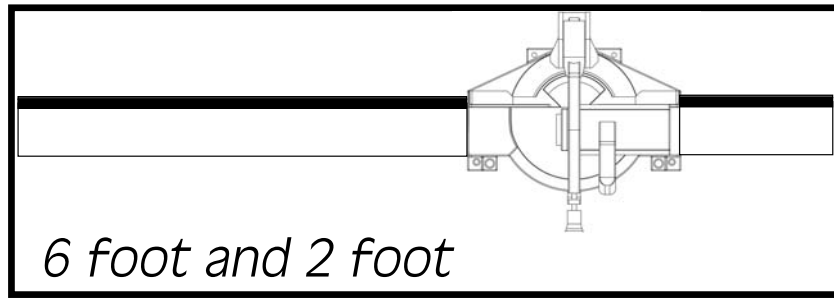
Four 2 ft. sections of Trak lets you set up your shop for the way you work. Additional trak sections and extra stops are available separately.



8 foot, all on one side



4 foot on either side



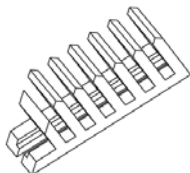
6 foot and 2 foot



**Be sure to visit [www.kregtool.com](http://www.kregtool.com) to get all the details surrounding our entire product line.**

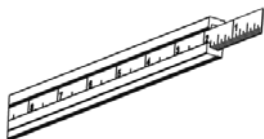
**Perfect Miter Attachment - KMS7831**

This attachment to the Kreg stops references a 45 degree mitered board on two surfaces, greatly increasing the cutting accuracy and repeatability of the mitered cut. Great for picture framing.



**Mini Trak - KMS7506**

Mini Trak can be used to produce countless types of woodshop jigs and fixtures such as taper jigs, cutoff sleds, and more. Bottom of trak accepts a 1/2" wide measuring tape to increase accuracy. T-slot will capture the head of any 1/4" hex bolt. Sold in a 4' length with tape. Easily cut to length with a hacksaw.



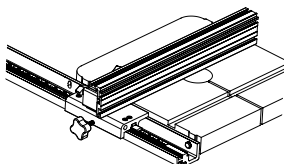
**Trak Klamp - KMS7511**

This inexpensive and versatile clamp works great in a variety of applications. Fits the Mini Trak, Top Trak or HD Trak. For most clamping applications, we suggest using two clamps to keep the work piece from rotating.



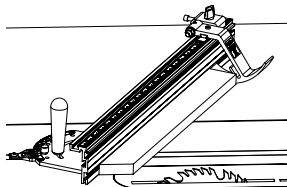
**Precision Band Saw Fence - KMS7200**

Introduce a new level of accuracy to your band saw with our Precision Band Saw Fence. We've designed this fence with noted band saw expert Mark Duginske to produce an unprecedented level of rigidity, adjustability, and precision. The fence is adjustable in two dimensions for ease in setting it parallel to the blade. Cutting accuracy and repeatability is further enhanced by the precision lens cursor that reads off of the included scale.



**Precision Miter Gauge System - KMS7102**

Cut perfect miters consistently with the Precision Miter Gauge System. Features factory calibrated accuracy from a gauge head that is machined on a computerized milling machine. A 24" Heavy Duty Trak section with patented Flipstop and self-adhesive measuring tape is included.



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