Molding System

Anti-Kickback

CMT the only ORANGE one™

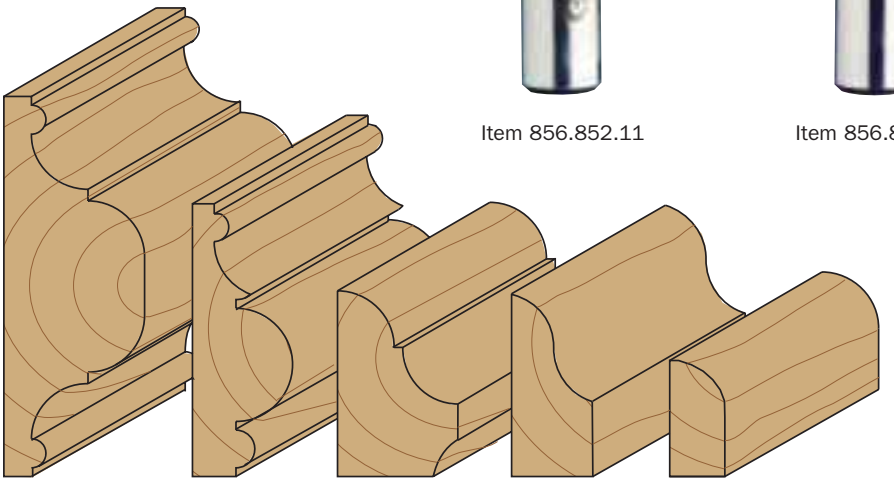
856.851/852 Carbide Tipped

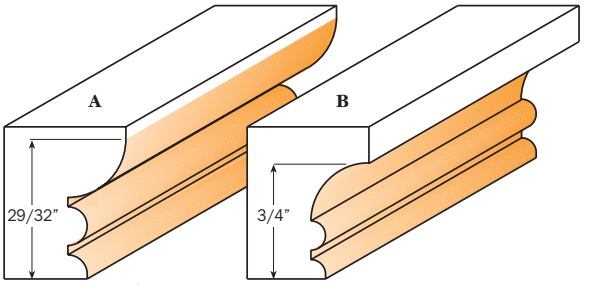
If the usual standard selection of molding and mill work isn't satisfactory to your woodworking tastes, then look for the CMT Molding System instead. With these bits, you can make dozens of elaborate profiles by combining two or more passes. Avoid the average and create your own moldings. Some initial suggestions are illustrated below.

Safety tips: Use these bits with a fence. The profiles shown below are milled from heavy stock then refined to the desired shape.

Item 856.852.11

Item 856.851.11





Drawings are 1:1 scale

Profile	D Overall Diameter inches	mm	I Cutting Length			Order No. 1/2" Shank	List Price $ 1/4" Shank	1/2" Shank
A	1-1/4"	31.7	29/32"			856.852.11	N/A	**48.90**
B	1-1/4"	31.7	3/4"			856.851.11	N/A	**48.90**

CMT the only ORANGE one™

Anti-Kickback

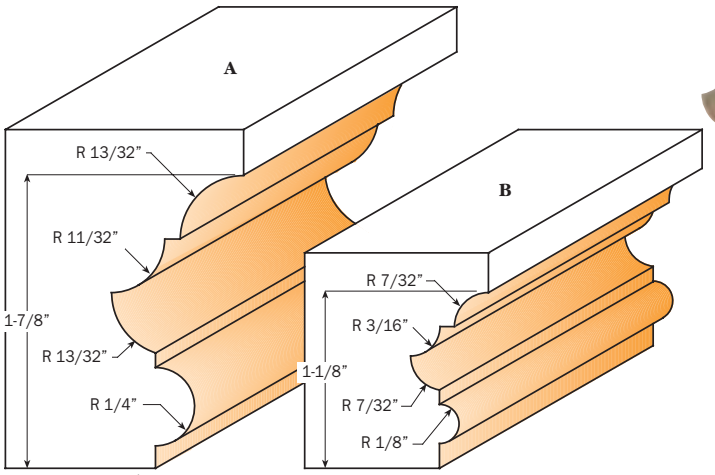
Multiprofile Bits

with ball bearing guides

856.801/802 Carbide Tipped

There is no limit to the profiles you can create with CMT Multiprofile Bits. Simply adjust the height of the bit to create classic profiles in a single pass. Or make several passes to create more complex and decorative effects. The super strength steel body of the CMT Multiprofile stands up to hours of cutting and micrograin carbide tips stay sharp longer for a guaranteed superior performance. Features CMT trademark orange Teflon® Industrial Coating and anti-kickback design. Use on tables equipped with a fence.

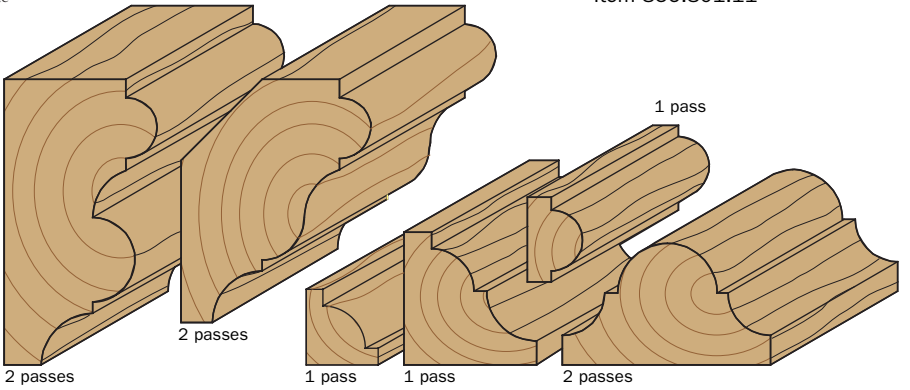
Safety tips: To make small molding shown below, cut the profile from very wide stock. Remove the excess material and work on the bigger piece to give you easier control. Keep hands away from the bit when working.



Drawings are 1:1 scale

Item 856.802.11

Item 856.801.11



Profile	D Overall Diameter inches	mm	I Cutting Length			Order No. 1/2" Shank	List Price $ 1/4" Shank	1/2" Shank
A	2-3/16"	55.6	1-7/8"			856.802.11	N/A	**97.90**
B	1-1/2"	38.1	1-1/8"			856.801.11	N/A	**77.90**

Spare Parts:			
1/2" bearing	791.003.00		3.90
Screw for bearing, 1/8W thread	990.057.00		0.90
3/32" hex key for 1/8W screws	991.057.00		3.50

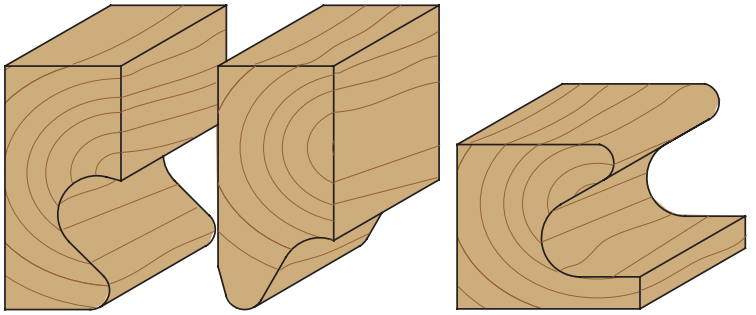
Finger Pull Bit

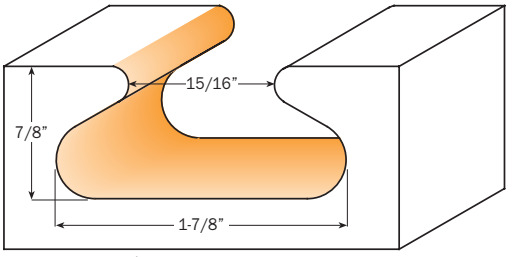
Anti-Kickback

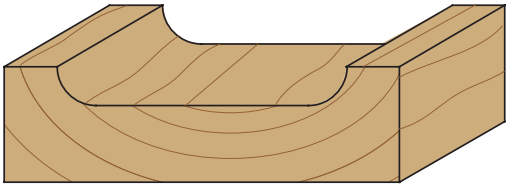
CMT the only ORANGE one™

855.601 Carbide Tipped

Why interrupt the subtle linearity of an all wood drawer front or cabinet door with a metal knob or handle? Use a CMT Finger Pull Bit to make a harmonious wooden handle. Choose your preference - a template profile directly in the wood or a European style hardwood pull as illustrated below. With careful preparation, execution, and choice of material, you can produce beautiful drawers and doors at a reasonable cost.





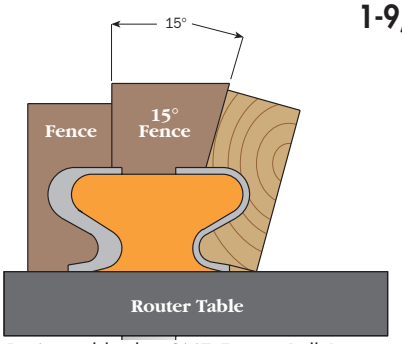


Drawings are 1:1 scale

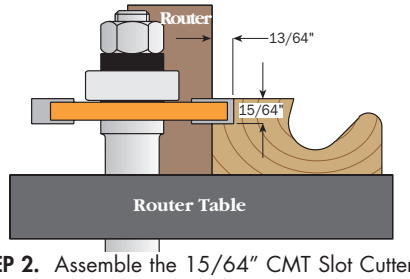
D Overall Diameter inches	mm	I Cutting Length				Order No. 1/2" Shank	List Price $ 1/4" Shank	1/2" Shank
1-7/8"	47.6	1-1/8"				855.601.11	N/A	72.50

European style hand pull in 6 easy steps

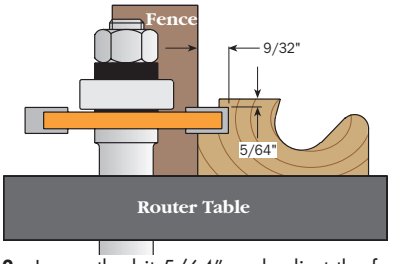
For our example we used
CMT Finger Pull Bit (item 855.601.11) - CMT Slot Cutter (item 822.360.11)
1-9/16" hardwood stock



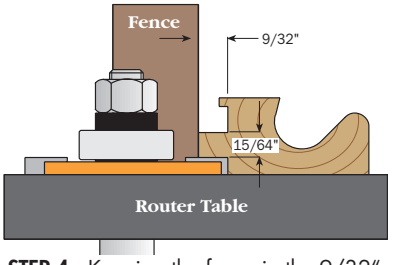
STEP 1. Assemble the CMT Finger Pull Bit to your router table and set up the fence at 15° to the bit, as illustrated above. Mill the stock using push blocks, being careful not to over feed. Always use caution when removing large quantities of stock as in this cut.



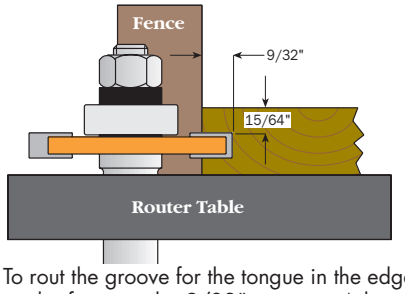
STEP 2. Assemble the 15/64" CMT Slot Cutter to the router table and line up the bit to the top face of the milled handle pull piece. Adjust the fence to make a 13/64" depth groove as in the illustration.This is the initial cut in the lip that will be visible on the face of the door.



STEP 3. Lower the bit 5/64" and adjust the fence to groove 9/32" deep. This forms the lip that overlaps the cut edge of the front face of the door, making the hand pull joint extra secure and more attractive.

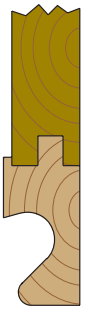


STEP 4. Keeping the fence in the 9/32" position, lower the bit to groove a 15/64" tongue, as shown.



STEP 5. To rout the groove for the tongue in the edge of the door, keep the fence in the 9/32" position. Adjust the slot cutter15/64 down from the front face of the door and groove as shown in the illustration.

STEP 6. Asemble the joint for a beautiful European style hand pull door!



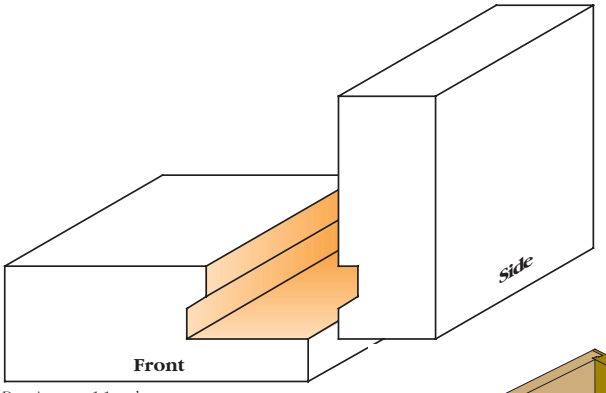
Drawer Lock Bit

Anti-Kickback

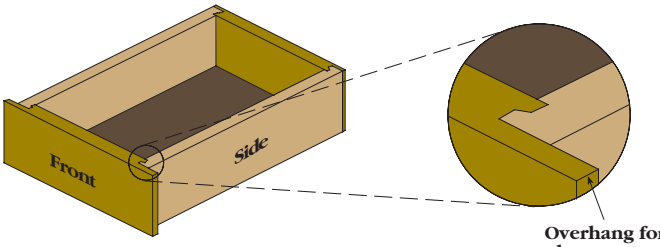
CMT the only ORANGE one™

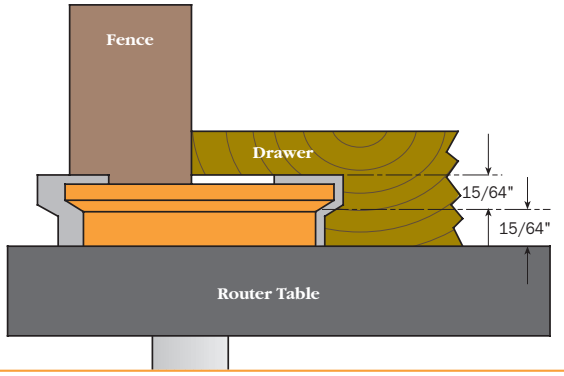
855.502 Carbide Tipped

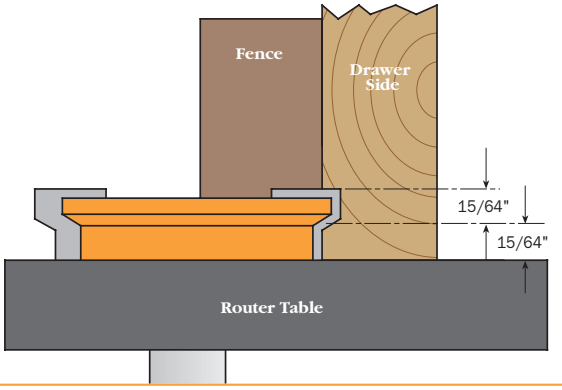
The key to success when constructing quality drawers is in the quality of the drawer lock bit you use. With CMT Drawer Lock Bits you can make strong, perfectly fitting joints quickly and easily. As illustrated below, mill the drawer front with the inside face down flat on the work table. Mill the sides of the drawer with the inside face placed vertical to the bit and fence and perpendicular to the table. These bits are to be used on router tables only and are not to be used on hand held routers.



Drawings are 1:1 scale







D Overall Diameter inches	mm	I Cutting Length			Order No. 1/4" Shank	Order No. 1/2" Shank	List Price $ 1/4" Shank	1/2" Shank
1-1/4"	31.7	1/2"			855.002.11		**43.50**	N/A
2"	50.8	1/2"				855.502.11	N/A	**52.50**

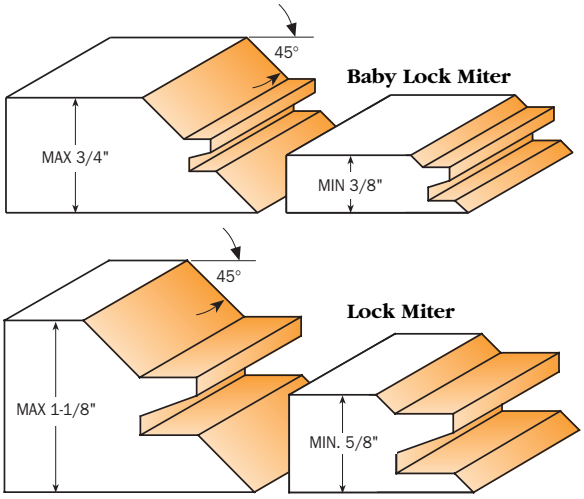
CMT the only ORANGE one™

Anti-Kickback

Lock Miter Bit and Baby Lock Miter

855.503/504 Carbide Tipped

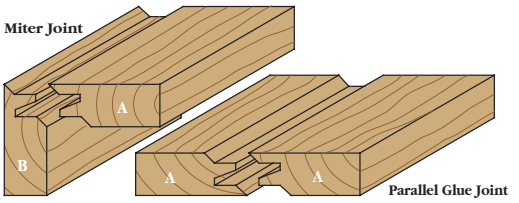
Both the CMT Lock Miter Bit and the new Baby Lock Miter are the perfect tools for any and all your joint projects. Use the Lock Miter for making jewelry boxes, frames and right angle or parallel joints in stock from 5/8" to 1-1/8". For humidors and small jewelry boxes, we made the Baby Lock Miter to make joints in thinner stock - from 3/8" to 3/4". To produce perfectly fitting miter joints, mill the piece with the inside face flat on the table centered to the bit as shown in step 1 below. Mill the other workpiece with the inside face vertical to the bit and fence, as shown in step 2 below. For sturdy parallel joints follow step 1. Lay the other workpiece inside face up and mill.



Drawing are 1:1 scale

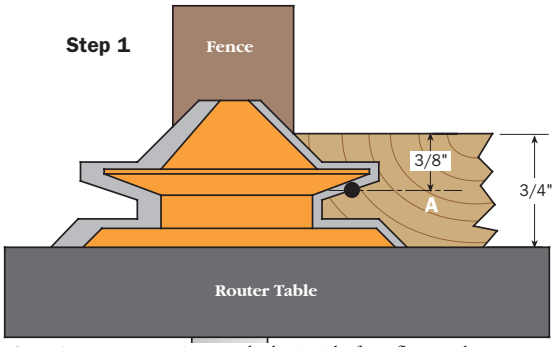
item 855.503.11

item 855.504.11

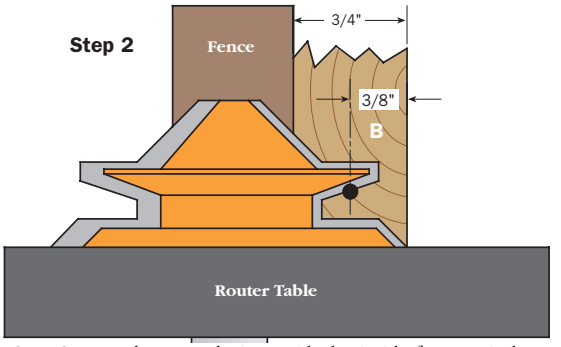


Example shown below is made using Lock Miter Bit 855.503.11

For miter and parallel glue joints using 3/4" board



Step 1: Rout one piece with the inside face flat on the router table. Be sure the cut is centered to the stock.



Step 2: Rout the second piece with the inside face vertical to the fence.

D Cutting Diameter inches	mm	I Cutting Length	Cutting Angle	Max Joint Thickness		Order No. 1/2" Shank	List Price $ 1/4" Shank	1/2" Shank
2-3/4"	69.8	1-1/4"	45°	1-1/8"		855.503.11	N/A	**113.50**
2"	50.8	7/8"	45°	3/4"		855.504.11	N/A	**98.90**

Reverse Glue Joint Bit

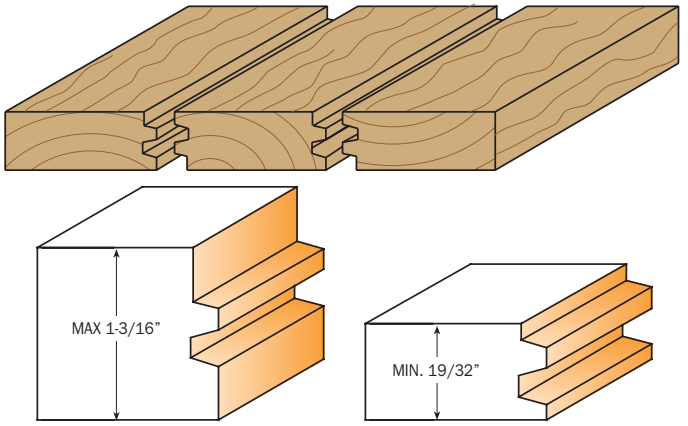
Anti-Kickback

CMT the only ORANGE one™

855.501 Carbide Tipped

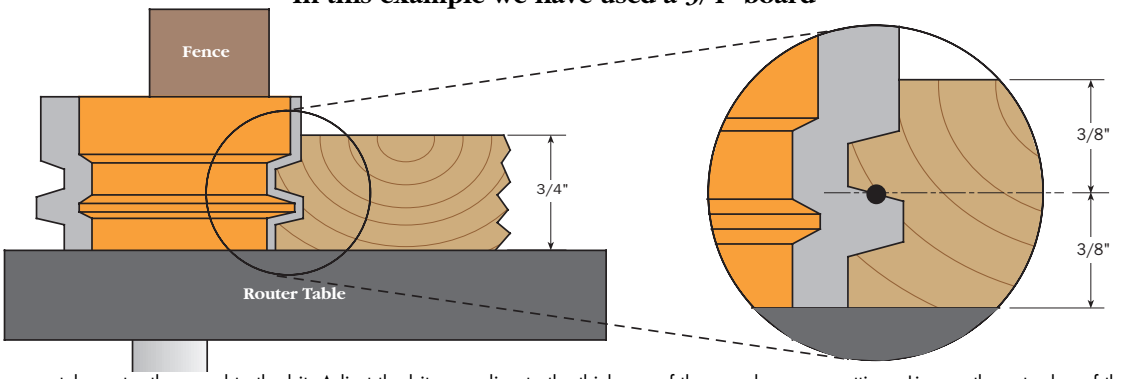
The most unique and important characteristic of the CMT Reverse Glue Joint Bit is its capacity to produce an almost indestructible glue joint quickly and without error. Ideal for routing wide dimension panels, doors and furniture pieces. By accurately centering the bit to the wood, the upper and lower vertical cutting edges of the bit will cut equal proportions. Simply run one edge of the panel, turn the panel over, and then run the opposite edge - you produce perfectly harmonized reverse cuts that match up to make flawless joints.

Useful tips: When glueing up, apply enough pressure to securely seal the joint. Insufficient pressure results in a weak joint and excessive pressure will distort the wood.



Drawings are 1:1 scale

In this example we have used a 3/4" board



To accurately center the wood to the bit: Adjust the bit according to the thickness of the wood you are cutting. Line up the cut edge of the wood to the center point of the bit as illustrated in the enlarged drawing. The upper and lower vertical cutting edges of the bit are in proportion and at equal distance to the center point of the bit. Run one cut edge of the wood, turn the piece over and run the other edge for exact reverse cuts that match up perfectly. Assemble the reverse cut pairs together for beautiful, strong joints.

D Cutting Diameter inches	mm	Max Joint Thickness				Order No. 1/2" Shank	List Price $ 1/4" Shank	1/2" Shank
1-3/4"	44.4	1-3/16"				855.501.11	N/A	76.90

CMT the only ORANGE one™

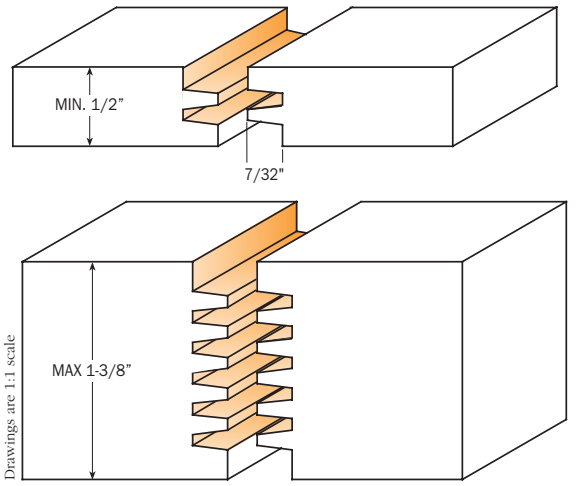
Anti-Kickback

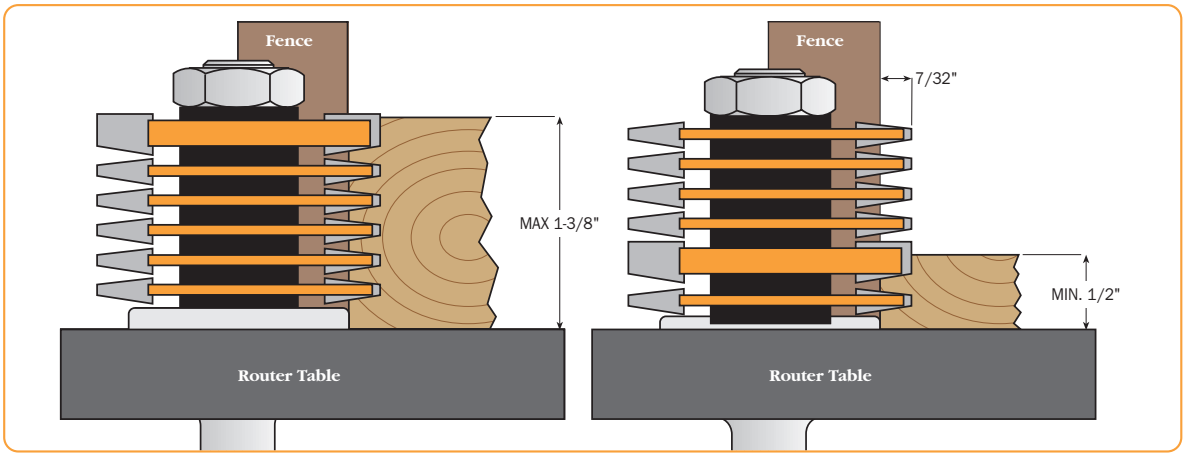
Professional Finger Joint Bit

with ball bearing guide

800.606 Carbide Tipped

The CMT Finger Joint bit lets you make incredibly strong side-to-side or end-to-end joints in all wood and wood composites. The tightness of the joint and the maximum glue surface create a joint that is actually stronger than solid wood. CMT's Professional Finger Joint features two flute blade design, carbide teeth and six removable blades to make joints in stock from 1/2" to 1-3/8".
Ideal for molding manufacturers and furniture makers.





D Cutting Diameter inches	mm	Max Stock Thickness	Order No. 1/2" Shank	List Price $ 1/4" Shank	1/2" Shank
1-7/8"	47.6	1-3/8"	800.606.11	N/A	**126.90**

Spare Parts:		
Two-flute blade, 5/64"	822.005.11	18.90
Two-flute blade, 7/32"	822.006.11	19.50
37 mm bearing	791.028.00	8.90
Nut for arbor, M12x1.25 thread	990.022.00	0.90

Window Sash Set

Anti-Kickback

CMT the only ORANGE one™

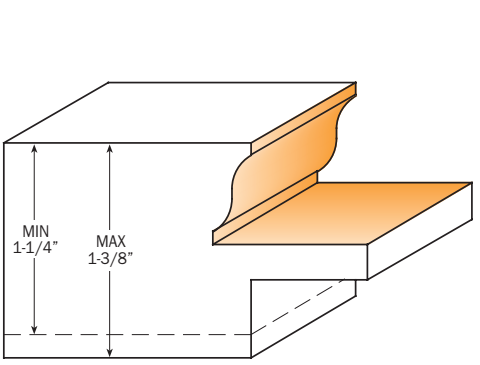
855.801 Carbide Tipped

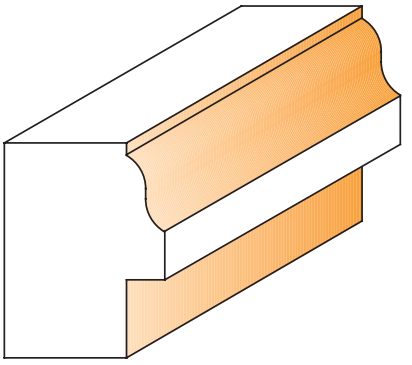
CMT designed this set so you can create window sashes that are as beautiful as they are functional. As an additional feature, the CMT Window Sash set will also mill perfectly joining 1-3/8" rail and stile parts for custom made doors. Like all CMT quality bits, this set includes our anti-kickback design feature and our trademark orange Teflon® Industrial Coating. Made of Fatigue Proof® steel with carbide tips for longer life. Each set contains one 1-1/2" bit and one 1-3/8" bit designed for cutting 1-3/8" stock.

Sold only as a set. Individual items not available separately.

Rail Bit

Stile Bit





Drawings are 1:1 scale

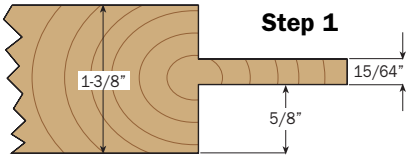
Description	D Cutting Diameter inches	mm	Order No. 1/2" Shank	List Price $ 1/4" Shank	1/2" Shank
Window sash set	1-1/2"- 1-3/8"	35 - 38	855.801.11	N/A	**148.50**
Spare Parts:	22 mm bearing		791.005.00		4.90
	Nut, M8 thread		990.020.00		0.90

Step-by-Step window sash construction

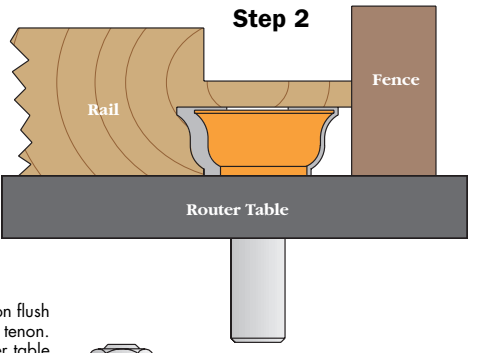
Your CMT set makes it easy!

In our step by step example for window sash construction, we used the following:
- CMT Window Sash Set (item No. 855.801.11)
- stile cut 1-3/8" thick
- rail cut 1-3/8" thick
- scrap stock

The CMT Window Sash Set was designed ideally for the construction of windows in 1-3/8" stock, however variations as narrow as 1-7/64" can be used. Stock thicker than 1-3/8" exceeds the milling range of the cutter. Remember to adjust your measurements and cutting depths according to the wood thickness you use. We suggest making a trial joint in scrap stock according to the following steps before milling all of the cope and stick profiles.

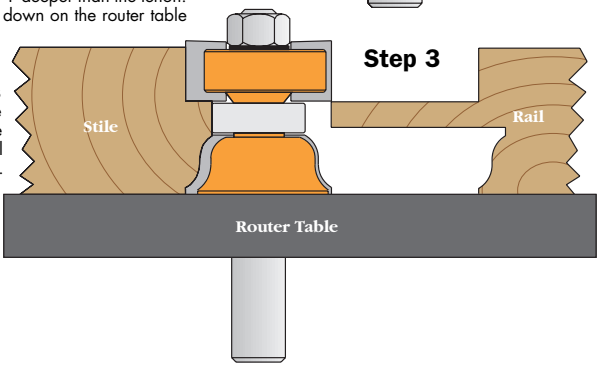


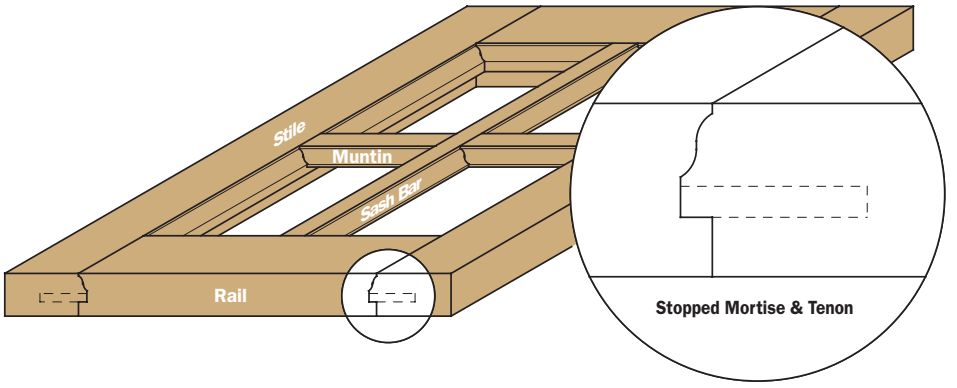
STEP 1 - Measurements and Making the tenons
The ideal thickness of the stiles when using the CMT sash set is 1-3/8". The desired width of the stiles will determine the length to make your tenons while the length of the stile will represent the desired full height of the sash. When cutting the rails to length, make sure to add the length of the two tenons to the overall length of the rail. The length of the tenons should be at least half the width of the stile. Mill 5/8" measuring from the front face of the stock using a table saw, radial saw or router as shown in illustration 1. This measure remains invariable since it is calculated to the height of the CMT sash routers. The width of the tenon is 15/64". Rotate the stock and mill the other side. For our example, the second milling will be 33/64" but this measure will vary if you are using thinner stock.



STEP 2 - Making the cope profile on rails, sash bar and muntins
To make the cope profile, place the rail face front down on the router table with the tenon flush to the bit as shown in illustration 2. Adjust the fence so the bit mills 1/4"deeper than the tenon. To mill the sash bar and the muntins (cross bars), position front face down on the router table and mill without changing the height of the bit.

STEP 3 - Making the stick profile on rails, stile, sash bar and muntins
To mill the stick profile along the inside edges of all sash parts, place the already milled cope profile front face down on the router table and adjust the sash bit so that the lower edge of the top cutter will exactly touch the upper edge of the tenon as shown in illustration 3. With the rail still face front down on the table, turn it so the inside edge of the rail is to the bit and mill the stick profile. Mill the inside edges of the stiles and mill both edges of the front face of the sash bar and muntins. To cut the slots for the tenons, measure 5/8" from the front face of the stiles and rout with a table saw.





Vertical Raised Panel Bits

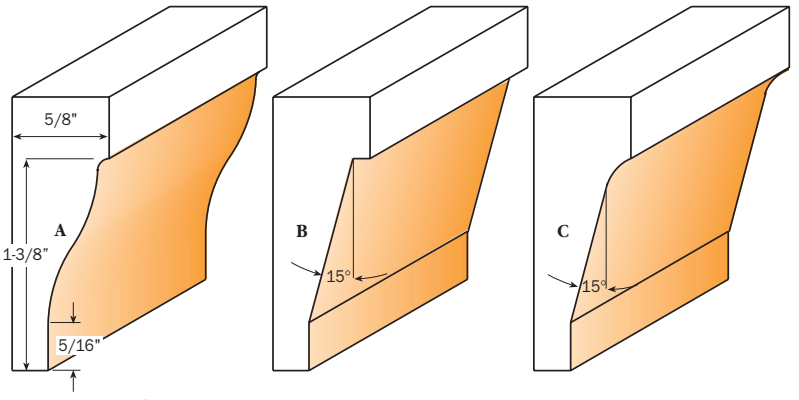
Anti-Kickback

CMT the only ORANGE one™

890.601/602/603 Carbide Tipped

Mill raised panel doors and drawer fronts easily and economically just by putting a CMT Vertical Raised Panel bit in your router* and a sturdy 90° tall-fence on your router table. Meticulously studied, designed and crafted using the highest technology available, these bits are perfected down to the smallest detail. Choose any of the three vertical profile designs for the style you want.

*Recommended for use on routers of minimum 2-1/4 HP. Routers as low powered as 1-1/2 HP can be used, keeping to shorter, shallower runs.



Drawings are 1:1 scale

Profile	D Overall Diameter inches	mm	I Cutting Length			Order No. 1/2" Shank	List Price $ 1/4" Shank	1/2" Shank
A	1-1/2"	38	1-1/2"			890.601.11	N/A	68.50
B	1-1/2"	38	1-1/2"			890.602.11	N/A	68.50
C	1-1/2"	38	1-1/2"			890.603.11	N/A	68.50

CMT the only ORANGE one™

Anti-Kickback

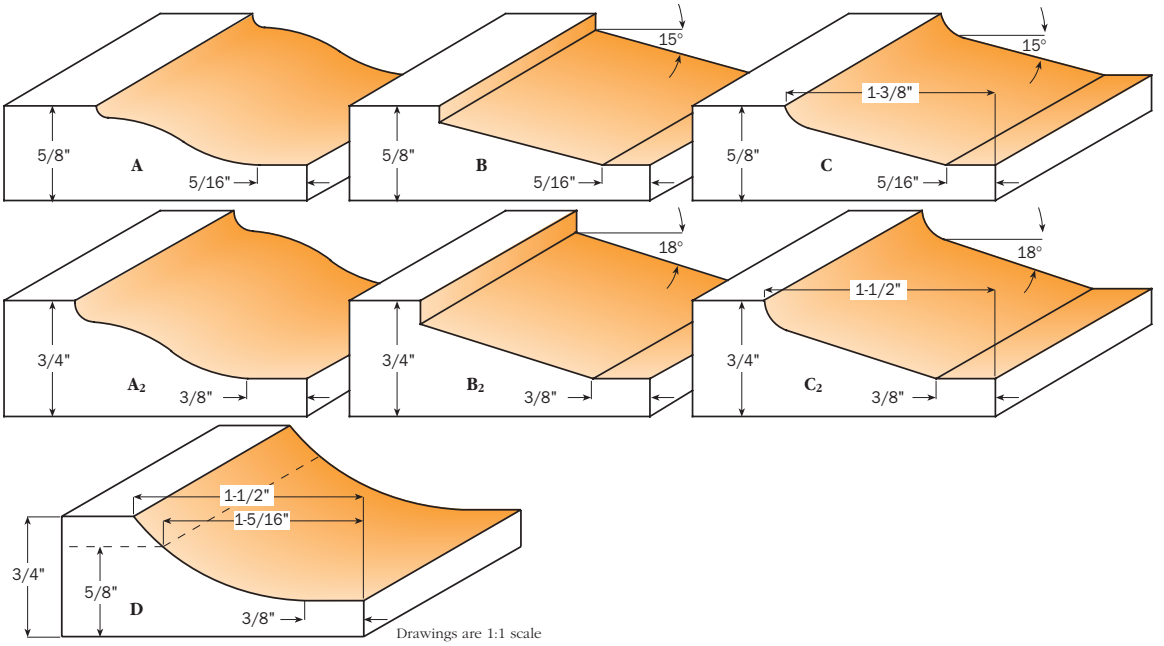
Raised Panel Bits

with ball bearing guides

890.501/502/503/504/505/506/507 Carbide Tipped

We offer you the traditional approach to panel construction with the CMT Raised Panel Bit. Make classic raised panel doors as shown in the profiles below. The raised panel bits have carbide tips and are equipped with trademark orange Teflon® Industrial Coating and our anti-kickback design to further increase your safety when working with larger diameter bits.

See pages 82 and 83 for **CMT Kitchen Sets**



Drawings are 1:1 scale

Profile	D Overall Diameter inches	mm	I Cutting Length			Order No. 1/2" Shank	List Price $ 1/4" Shank	1/2" Shank
A	3-1/4"	82.5	19/32"			890.501.11	N/A	**97.50**
B	3-1/4"	82.5	19/32"			890.502.11	N/A	**97.50**
C	3-1/4"	82.5	19/32"			890.503.11	N/A	**97.50**
A2	3-1/2"	89	19/32"			890.504.11	N/A	**105.50**
B2	3-1/2"	89	19/32"			890.505.11	N/A	**105.50**
C2	3-1/2"	89	19/32"			890.506.11	N/A	**105.50**
D	3-1/2"	89	19/32"			890.507.11	N/A	**105.50**

Spare Parts:			
1/2" bearing	791.003.00		3.90
Screw for bearing, 1/8W thread	990.057.00		0.90
3/32" Hex key for 1/8W screws	991.057.00		3.50

One-Piece Rail and Stile Joint Bit

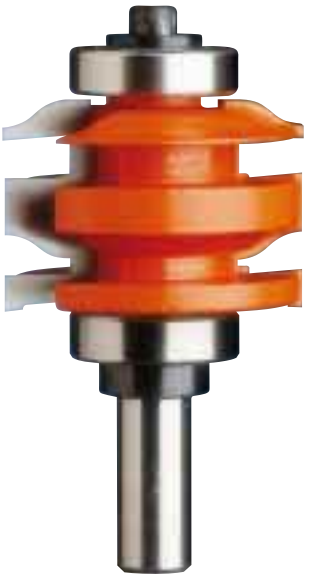
with ball bearing guide

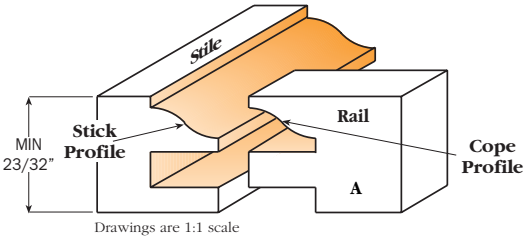
891.521 Carbide Tipped

Anti-Kickback

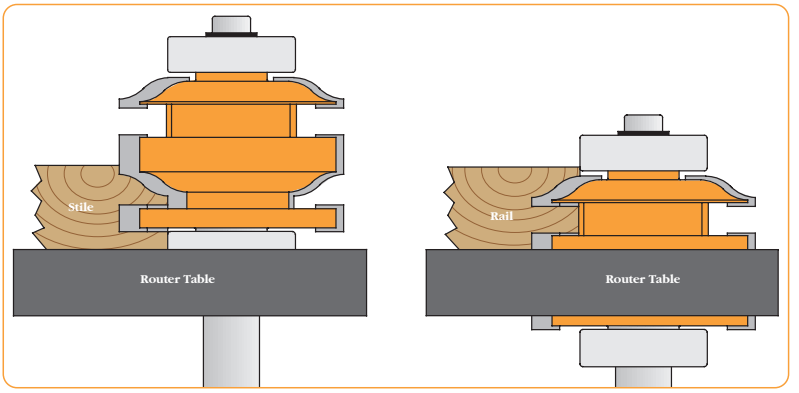
CMT the only ORANGE one™

The most innovative bit for the construction of furniture doors and drawers. The new CMT One Piece Rail and Stile Bit represents two cutters in one bit. By just adjusting the height of the bit, you can cut two perfectly joining profiles with no wasted time or effort by moving the fence or changing the bit. Save money by investing in a singular CMT bit and a more efficient production.
For working in stock from 23/32" to 7/8".





Drawings are 1:1 scale



Profile	D Overall Diameter inches	mm	Order No. 1/2" Shank	List Price $ 1/4" Shank	1/2" Shank
A	2"	50.8	891.521.11	N/A	**127.50**

Spare Parts:

1-1/8" bearing	791.027.00	7.50
Stop collar for 1/2" shanks	541.002.00	6.50
Screw for bearing, M5 thread	990.010.00	0.90
Shield for screw M5	541.551.00	6.50
1.5 mm hex key for stop collars	991.056.00	3.50
4 mm hex key for screw M5	991.064.00	3.50

CMT the only ORANGE one™

Anti-Kickback

Rail and Stile Sets

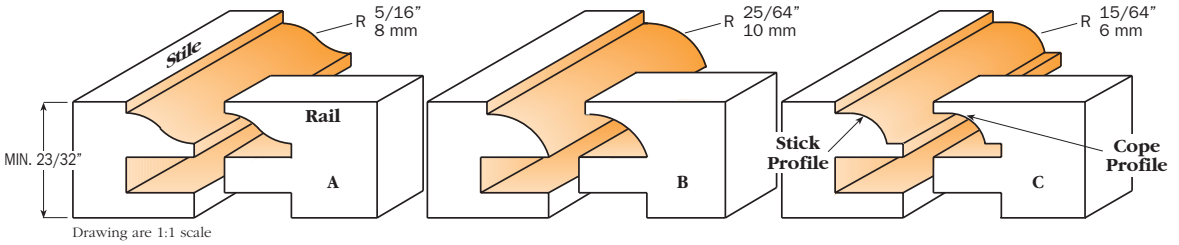
with ball bearing guides

891.501/502/503 Carbide Tipped

A true, finely constructed door will bear the mark of a perfect joint: clean, exact and well-crafted for strength. For this project, the CMT Rail and Stile Sets are the perfect pair. Made to our specifications they match exactly, unlike standard reversible cutters. Choose the style of CMT Rail and Stile set that best suits your needs and create smooth perfect joints in hard and soft woods with accuracy and speed. Perfect for working in stock from 23/32" to 7/8".

Sold only as a set.
Individual items not available separately.

See pages 82 and 83 for **CMT Kitchen Sets**



Drawing are 1:1 scale

Profile	D Overall Diameter inches	mm	Order No. 1/2" Shank	List Price $ 1/4" Shank	1/2" Shank
A	1-3/4"	44.4	891.501.11	N/A	**137.50**
B	1-3/4"	44.4	891.502.11	N/A	**137.50**
C	1-3/4"	44.4	891.503.11	N/A	**137.50**
Spare Parts:	Two-flute blade		822.003.11		18.90
	22mm bearing		791.005.00		4.90
	0.1mm spacer		541.504.00		6.50
	0.3mm spacer		541.510.00		6.50
	0.5mm spacer		541.505.00		6.50
	Nut, M8 thread		990.020.00		0.90

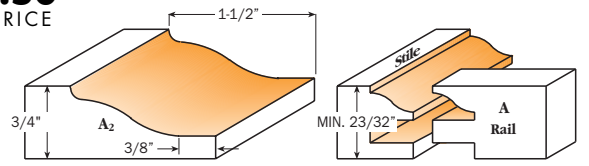
3-Piece Kitchen Set

1/2" Shank Carbide Tipped

Open some new doors with CMT. Our 3-Piece Kitchen set includes a Rail and Stile bit couple and a Raised Panel bit with your choice of 4 profiles to make panel door construction easy and economical. Each bit is made from bar stock steel, the highest quality tungsten carbide and exclusively surface treated with our trademark orange Teflon® Industrial coating. And it all comes safely organized in our protective hardwood case so you'll probably have the nicest looking toolbox around. See profile options below.

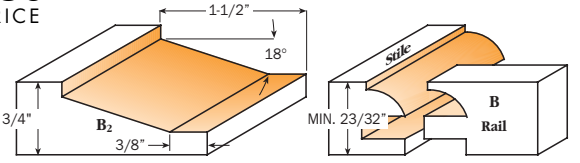
800.513.11 Profile A_2 Set $ 223.50 LIST PRICE

Set Contains	1/2" Shank	List Price $
Raised Panel Bit	890.504.11	105.50
Rail and Stile Set	891.501.11	137.50



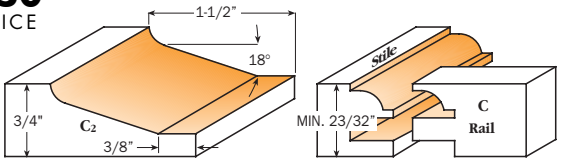
800.512.11 Profile B_2 Set $ 223.50 LIST PRICE

Set Contains	1/2" Shank	List Price $
Raised Panel Bit	890.505.11	105.50
Rail and Stile Set	891.502.11	137.50



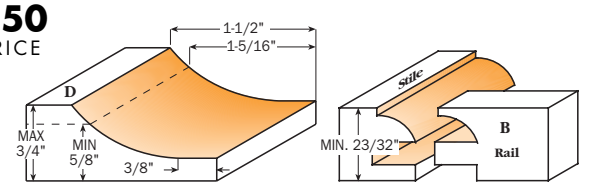
800.514.11 Profile C_2 Set $ 223.50 LIST PRICE

Set Contains	1/2" Shank	List Price $
Raised Panel Bit	890.506.11	105.50
Rail and Stile Set	891.503.11	137.50



800.516.11 Profile D Set $ 223.50 LIST PRICE

Set Contains	1/2" Shank	List Price $
Raised Panel Bit	890.507.11	105.50
Rail and Stile Set	891.502.11	137.50



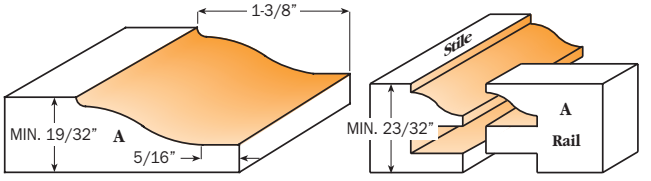
5-Piece Complete Kitchen Set

1/2" Shank Carbide Tipped

Our sets aren't just a random selection of odds and ends bits packaged in a box to look nice - the CMT Complete Kitchen set is a professional drawer and door makers kit. We give you three sets to choose from for the profiles you prefer. Each set includes your choice of raised panel bit and Rail and Stile bit plus a glue joint and drawer lock bit. See illustrations below for complete profile options.

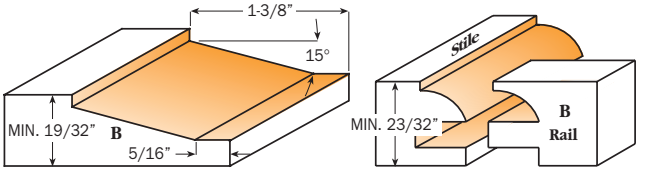
800.509.11 Profile A Set $ 330.90 LIST PRICE

Set Contains	1/2" Shank	List Price $
Raised Panel Bit	890.501.11	97.50
Rail and Stile Set	891.501.11	137.50
Glue Joint Bit	855.501.11	76.90
Drawer Lock Bit	855.502.11	52.50



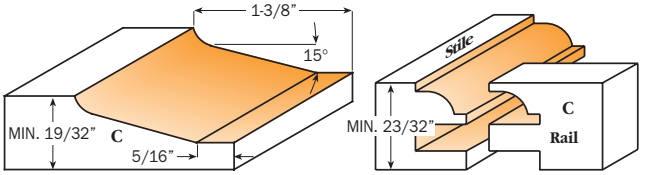
800.510.11 Profile B Set $ 330.90 LIST PRICE

Set Contains	1/2" Shank	List Price $
Raised Panel Bit	890.502.11	97.50
Rail and Stile Set	891.502.11	137.50
Glue Joint Bit	855.501.11	76.90
Drawer Lock Bit	855.502.11	52.50



800.511.11 Profile C Set $ 330.90 LIST PRICE

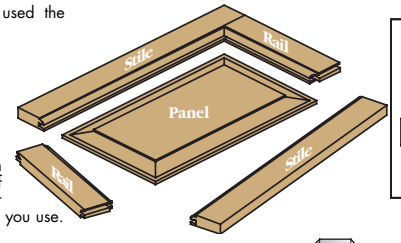
Set Contains	1/2" Shank	List Price $
Raised Panel Bit	890.503.11	97.50
Rail and Stile Set	891.503.11	137.50
Glue Joint Bit	855.501.11	76.90
Drawer Lock Bit	855.502.11	52.50



The ABC's of Panel Door Construction

In our step by step example of panel door construction, we used the following:
- CMT Rail & Stile set (item # 891.502.11)
- Raised panel bit (item # 890.502.11)
- CMT Reverse Glue Joint (item #855.501.11)
- pre-cut stiles - 3/4" thick x 2-7/16" wide
- pre-cut rails - 3/4" thick x 2-7/16" wide
- panel - 3/4" thick
- scrap stock

The CMT Rail & Stile set was designed ideally for the construction of panel doors from 3/4" thick stock, however any variation of size up to 7/8" thick can be used. Remember to adjust your measurements and cutting depths according to the wood thickness you use.



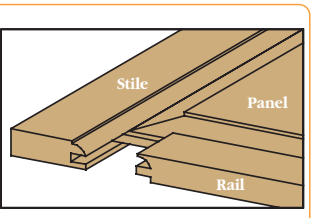
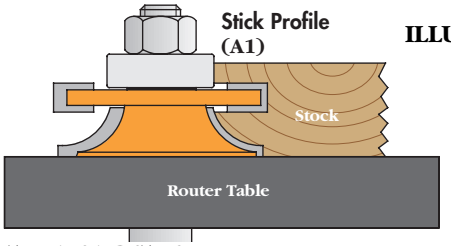
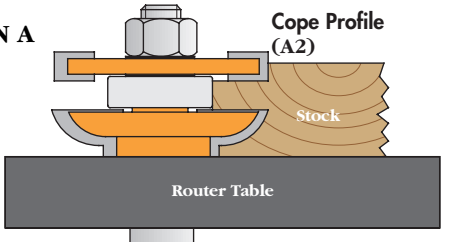


ILLUSTRATION A





MILLING THE RAILS AND STILES

First make trial cuts of the cope profile (rail) and the stick profile (stile) in scrap stock and check the accuracy of the joint. This is extremely important when working at maximum thickness (7/8"). Make sure your stock is flat and cut straight with square edges. Using the CMT Stile Bit shown in illustration (A1), place the stock front face side down on the router table and mill the stick profile in the stile and rail pieces. To mill the cope cuts, use the CMT Cope Bit shown in illustration (A2), position the rails face side down on the router table and mill the cope profile in the ends. If you are milling cope and stick profiles before cutting the rails and stiles to length, make sure to make the proper calculations before cutting the rails. The stiles are the same length as the door.

The rails must be calculated by the following equation
(CMT standard tenon length is 7/16"+7/16"=7/8"):
(Total door width - Sum of Stile widths) + Sum of 2 tenons = Total Rail length
Therefore, using our example measurements listed above, for a 12" cabinet door:
(12" - 4-7/8") + 7/8" = 8"

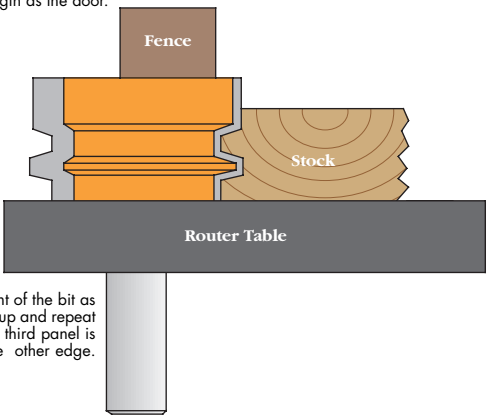


ILLUSTRATION B

GLUEING UP PANELS

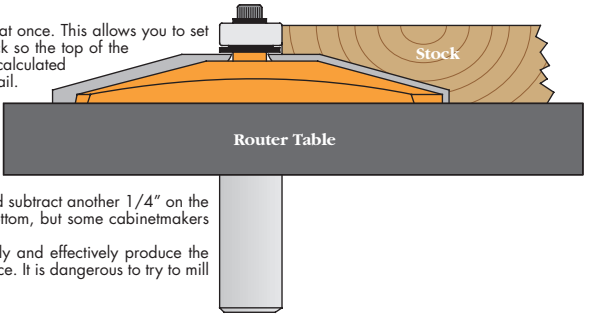
If the panel requires a width greater than the width of your stock, you will need to edge glue stock for the central floating panel. This is simply accomplished using the CMT Reverse Glue Joint bit. For making a two panel glue joint, place the first panel front face down on the router table and accurately center the wood to the bit: Adjust the bit according to the thickness of the wood you are cutting by lining up the cut edge of the wood to the center point of the bit as illustrated in illustration B and mill the cut edge of the wood. Place the second panel front face up and repeat the milling process. This assures you will have the best side of your stock as a front face. If a third panel is required, mill one cut edge of the piece as instructed above, turn the piece over and run the other edge. Assemble the reverse cut pairs together for beautiful, strong joints that match up perfectly.

ILLUSTRATION C

ING THE FLOATING PANEL

Our new raised panel cutter shapes both the front and back side of the panel at once. This allows you to set the cutter to the correct height and leave it there. Make trial cuts in scrap stock so the top of the panel is flush with the top of the rail and stile pieces. The panel size can be calculated using this method: the width of the panel is 1/4" less than the length of the rail. If the rail length is 8", the panel width is 7-3/4". This allows the panel to expand and contract between high and low humidity seasons. It is also advisable to insert Panalign strips which keep the panels centered. The length of the panel is 4" less than the overall door length. A 24" long cabinet door - 4" = 20" long raised panel. This 4" method only works when you make your rails and stiles 2-7/16" wide since our tenons are cut 7/16" long. If you plan on using the Panalign strips on the top and the botton of the panels, you should subtract another 1/4" on the length of the panel. It is not required to use Panalign strips on the top and bottom, but some cabinetmakers use them to expose more of the raised panel cut.

ATTENTION: This bit is capable of removing large amounts of stock. To safely and effectively produce the profile you want, we suggest making several shallow passes by moving the fence. It is dangerous to try to mill the entire profile in one single pass.



Sommerfeld Raised Panel Bit

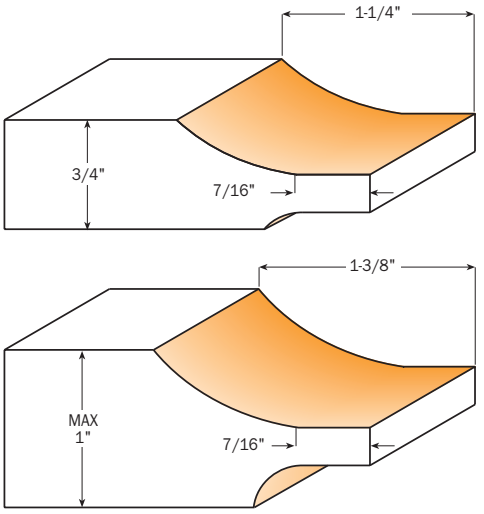
with back cutter

890.527 Carbide Tipped

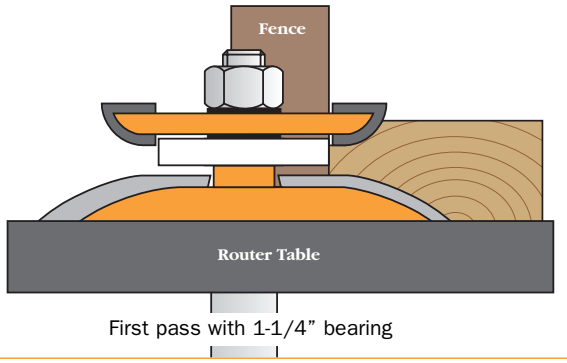
Anti-Kickback

The 3-1/2" diameter bit has a back-cutter which allows milling of both the front and back of the panel in the same cut. An additional 1-1/4" diameter bearing promotes safety by allowing you to take two shallow passes.

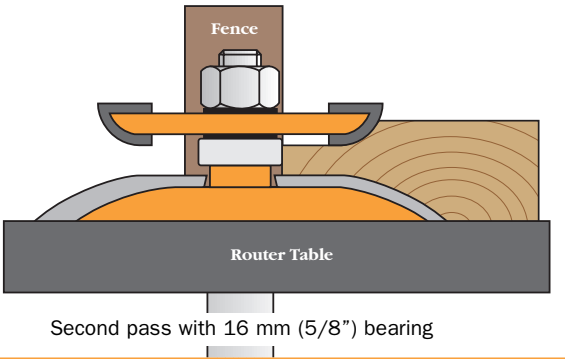
See pages 87 for **Sommerfeld Sets**



Drawings are 1:1 scale



First pass with 1-1/4" bearing



Second pass with 16 mm (5/8") bearing

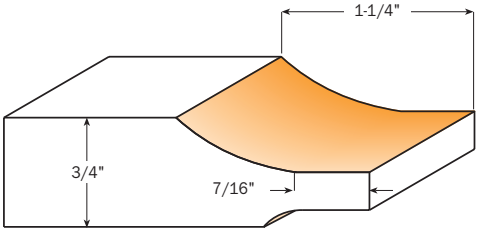
D Cutting Diameter inches	mm		Order No. 1/2" Shank	List Price $ 1/4" Shank	1/2" Shank
3-1/2"	89		890.527.11	N/A	**137.50**
Spare Parts:		Two-flute back cutter blade	822.007.11		18.90
		16 mm bearing	791.025.00		5.90
		1-1/4" bearing	791.033.00		8.90
		Nut, M8 thread	990.020.00		0.90

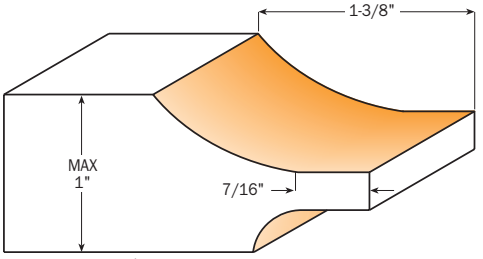
The Sommerfeld Raised Panel Set

Making raised panels is easier than ever before with this new three-piece set. The ogee rail and stile bits are made to exact specifications to match perfectly. The stile cutter has a shear angle to produce superior cuts with minimal splintering. The 3-1/2" diameter raised panel bit has a cove profile and a back-cutter which allows milling of the front and back of the panel in the same pass. The bits come in a protective hardwood case, and the companion video demonstrating each bit is included with the set.

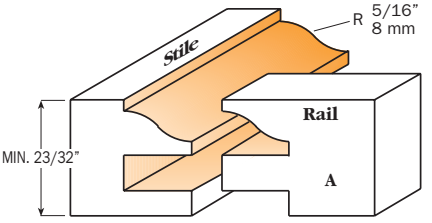
800.517.11 Carbide tipped 1/2" Shank Set

$ 243.90
LIST PRICE





Drawings are 1:1 scale



Drawing are 1:1 scale

Set contains		1/2" Shank	List Price $ 1/4" Shank	List Price $ 1/2" Shank
Raised panel bit with back-cutter		890.527.11	N/A	137.50
Ogee rail and stile matched pair		891.501.11	N/A	137.50

The Sommerfeld Cabinetmaking Set

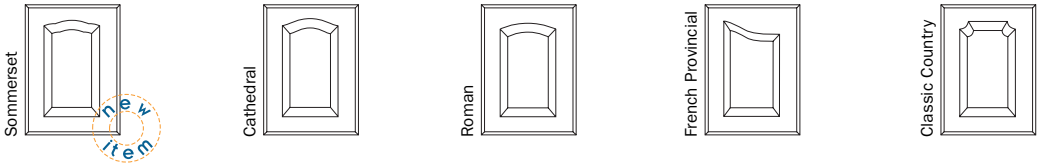
Make straight and arched raised panels that rival those made with expensive machinery. The new Sommerfeld Cabinetmaking Set features six router bits designed expressly for making arched raised panel doors and professional drawer fronts. The set includes the following:
OGEE RAIL AND STILE MATCHED PAIR Two separate cutters eliminate the frustration and time-consuming setup of reversible cutters. The stile cutter has a shear angle to produce superior cuts.
RAISED PANEL BIT WITH BACK-CUTTER The 3-1/2" diameter bit has a back-cutter which allows milling of both the front and back of the panel in the same cut. An additional 1-1/4" diameter bearing promotes safety by allowing you to take two shallow passes.
SUPER-DUTY FLUSH TRIM BIT The 3/4" cutting diameter gives a superior cut with minimal chipping, even on end grain.
OGEE DOOR EDGE BIT A subtle cove followed by a small roundover adds an elegant touch to the door edge.
DRAWER FRONT BIT This unique bit makes a mini-raised panel cut on the outside edges of the drawer fronts.

A companion video demonstrating each bit and the use of templates is included at no extra charge.

800.515.11 Carbide tipped 1/2" Shank Set

$ 376.90
LIST PRICE

You can make panel doors in all of the arch styles shown here by using the templates on page 89.
Be sure to check out the video "Raised Panel Doors Made Easy" by and featuring Marc Sommerfeld, available on page 88.



Set Contains		1/2" Shank	List Price $ 1/4" Shank	List Price $ 1/2" Shank
Raised panel bit with back-cutter		890.527.11	N/A	137.50
Ogee rail and stile matched pair		891.501.11	N/A	137.50
Ogee door edge bit		859.564.11	N/A	47.90
Drawer front bit		837.955.11	N/A	48.90
Super-Duty flush trim bit		806.690.11	N/A	39.50