FREEBORN
TOOL COMPANY, INC.

SUPERIOR GEOMETRY

PROUDLY MADE IN U.S.A.

HIGH LEVEL OF PRECISION
AND CUSTOMIZATION

(800) 523-8988

WWW.FREEBORNTOOL.COM

Freeborn Tool Company has built a reputation on

Precision, Repeatability, Value and Customer Support - unequaled in the tooling industry.

Thank you for choosing Freeborn Tool Co. for your tooling needs. Since the 1970's, Freeborn Tool Co. has been a leading manufacturer of shaper cutters in the United States. Throughout the years, Freeborn has become known for the quality of their cutters as well as their ability to make custom tooling to fit the woodworker's requirements, quickly.

As the industry has progressed, Freeborn has kept up with current technology. Hand turning of bodies has been replaced with 5 axis machining centers, and CNC milling centers. No longer are profiles ground using manual profile machines. Instead, state of the art 5-axis profile grinders are used for all profiles, ensuring exact repeatability cutter after cutter.

Freeborn Tool Co. was one of the first cutter manufacturers to offer both carbide and alloy tipping to their cutters. T-alloy is superior in cutting most natural woods. Carbide cuts well with natural wood as well as man made materials.

All Freeborn cutters go through a stringent quality assurance program throughout the manufacturing process. Multiple checks throughout the production process ensure accuracy, balance, and a perfect fit every time. Unlike some of our competition, our Cope and Pattern sets are not just six cutters pulled from the shelf. Each set is individually matched on an optical comparator to guarantee the proper fit.

Initial quality is only the first step at Freeborn. We are available to work with the customer to determine their needs, and our after-sale customer service is of the highest standard. Whether professional or novice we will provide the information you need to resolve any cutter issues you face. Call us to discuss how we can help you.

We offer brazed shaper cutters, insert cutters, spiral inserts, router bits, custom tooling, and tool holders for CNC tooling. If you don't see what you need here, give us a call and we will help you find it.

Freeborn Tool Company is proud to present its latest collection of high quality Carbide and T-Alloy tipped shaper cutters. We are confident that here you will find numerous solutions to your woodworking needs. Your input is appreciated.

This catalog depicts all of our stock cutters including new profiles and wood cutting tools.

We list both our MINI-PRO and PRO-LINE series cutters that share the same profile on the same page. Opposite rotation is available at an additional 20% over the suggested list price. Wood samples are shown actual size unless otherwise indicated.

By offering the woodworker a choice in tipping materials, finding the tool best suited for the job becomes simpler.

T-ALLOY TIPPED
Freeborn offers a complete line of shaper cutters with T-Alloy tips, uniquely designed for cutting natural woods (not to be used for man-made materials). T-Alloy is one of the most advanced cutting materials on the market today. It is extremely durable to better resist chipping and cracking, as well as corrosion from wood acids. They can also be face-honed between sharpenings for extra long life. T-Alloy cutters are painted bright yellow.

Minor voids in the face of our alloy tips sometimes occur and will not affect the cut qualities.

CARBIDE TIPPED
Carbide tipped cutters are still unsurpassed while working with man-made materials such as particle board, plywood and fiberboard, as well as natural wood. The time-tested, orange colored Freeborn cutters offer a geometrically precise design that provides long life and unmatched results in a variety of applications.

ORDERING INFORMATION
Product numbers are simple to understand by following the "Product Order Code" interspersed through the catalog.

MINI-PRO SERIES
Our 3 wing cutters with a 3/4" bore.

PRO-LINE SERIES
Our 3 wing cutters with a 1-1/4" bore.

CUSTOM
Of course, if you don't see exactly what you need, please give us a call to discuss custom cutters (see the Custom Made Tooling page in the back of the catalog).

RETURN POLICY
All returns to Freeborn Tool Co. must be approved in advance. Returns must be unused and are subject to a 15% restocking fee. Exchanges of unused cutters will be exempt from the 15% restocking fee.

CANCELLATIONS
Stock orders may be canceled prior to shipping without penalty. Custom orders will be charged a prorated fee based on completion status.

PRODUCT ORDER CODE

M	**C**	**00-000**
P	**C**	**00-000**
P	**T**	**00-000**

M - MINI-PRO (3/4" Bore)
P - PRO-LINE (1-1/4" Bore)
C - Carbide Tip (Orange)
T - T-Alloy Tip (Yellow)

Address:

3304 E. Ferry Ave.
Spokane, WA 99202

Phone:

(509) 484-3033

Toll Free in U.S. and Canada
1-800-523-8988

Fax:

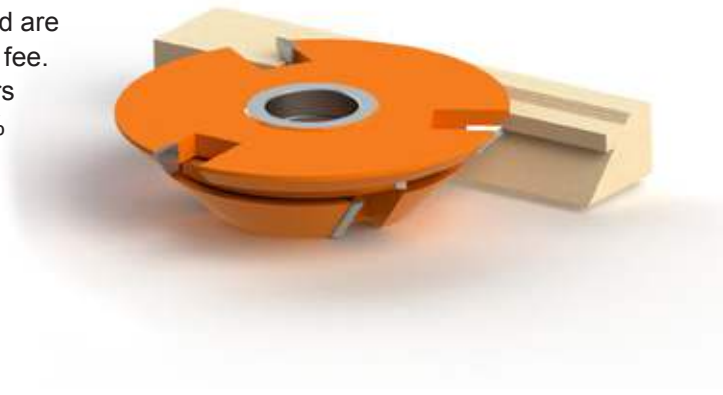
(509) 484-9932

E-mail:

sales@freeborntool.com

Website:

www.freeborntool.com

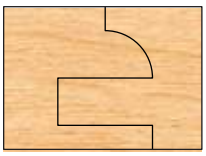


INSERT TOOLING - COPE AND PATTERN SETS

- Common minor diameters and vertical profile centering eliminate the need to adjust the spindle height or fence position when switching from cope to pattern cuts
- Heads will accept both square and eased edges
- For 3/4" to 7/8" material

- 1/4 x 1/2 tongue and groove standard
- 4-1/2" outside diameter, 3-1/2 minor diameter
- 4" diameter for unique 250/265 available by special order
- 5.5mm x 1/2" tongue available by special order
- 1-1/4" bore
- CCW rotation, material fed face down

DEDICATED PROFILE INSERT CUTTERS 2 PC. SETS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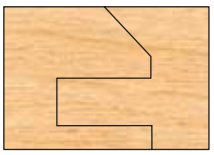
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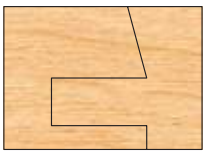
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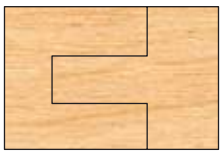
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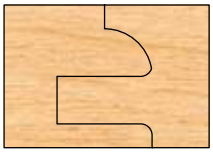
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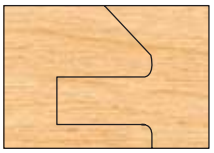
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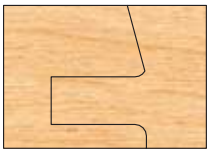
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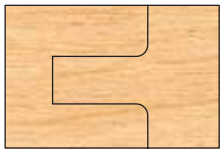
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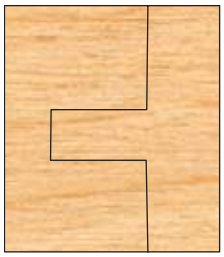
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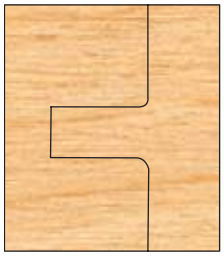
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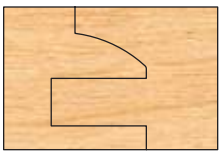
For oversized jobs, the IC-10-500-35 can cut up to 1-1/4" material

MULTI PROFILE INSERT CUTTERS 2 PC. SETS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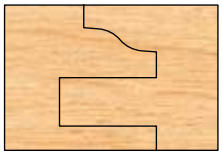
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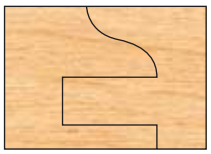
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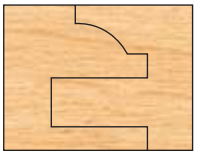
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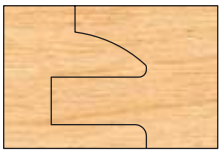
Our multi profile head will accept any of these 14 profiles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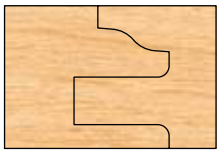
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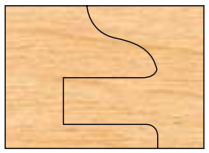
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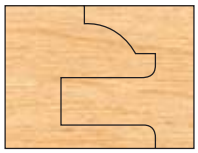
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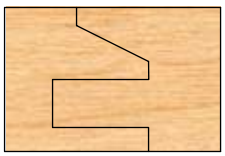
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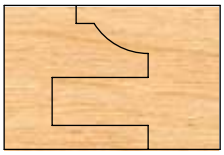
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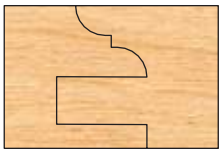
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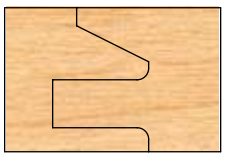
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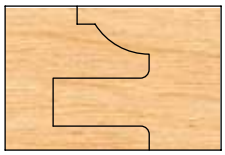
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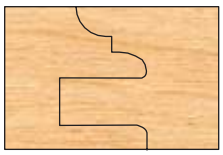
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Our 2 piece Cope and Pattern insert sets do not offer the adjustability of our 3 piece sets. (page 6-7). As a result, it is critical that your spindle be square to your table. (see page 42 for instructions to check your spindle.) Also, when changing your tips you must clean the heads of any wood residue to allow proper alignment. Failure to do so may result in a loose fit between your Cope and Pattern cuts.

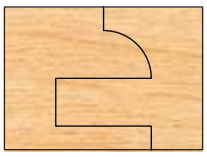
INSERT TOOLING - COPE AND PATTERN SETS

3 Piece insert Cope and Pattern sets to allow easy fit adjustment.

- A two piece cope head with shims allow you to adjust your fit as needed
- Common minor diameters and vertical profile centering eliminate the need to adjust the spindle height or fence position when switching from cope to pattern cuts
- Heads will accept both square and eased edges
- For 3/4" 7/8" material
- 4-1/2" outside diameter, 3-1/2" minor diameter
- 4" diameter for unique 250/265 available by special order
- 5.5mm x 1/2" tongue available by special order
- 1-1/4" bore
- 1/4 x 1/2 tongue and groove standard
- CCW rotation, material fed face down

When changing your tips, you must clean the heads of any wood residue to allow proper alignment. Failure to do so may result in a loose fit between your Cope and Pattern cuts.

DEDICATED PROFILE INSERT CUTTERS 3 PC. SETS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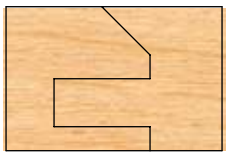
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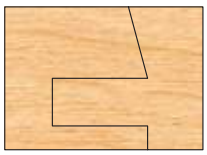
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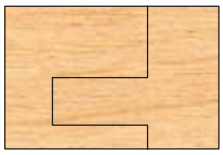
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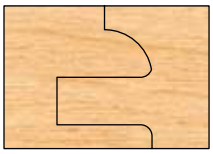
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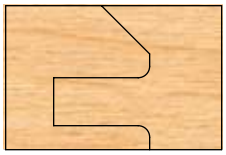
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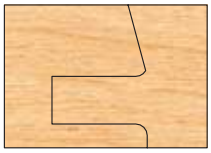
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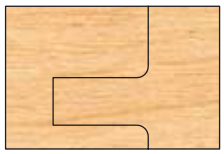
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Each of the above profiles has its own dedicated heads

INSERT TOOLING - COPE AND PATTERN SETS

3 Piece insert Cope and Pattern sets to allow easy fit adjustment.

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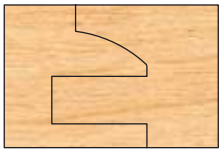
- 1-1/4" bore
- 1/4 x 1/2 tongue and groove standard
- CCW rotation, material fed face down

When changing your tips, you must clean the heads of any wood residue to allow proper alignment. Failure to do so may result in a loose fit between your Cope and Pattern cuts.

MULTI PROFILE INSERT CUTTERS 3 PC. SETS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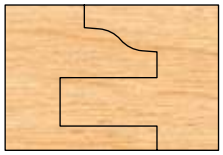
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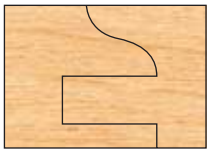
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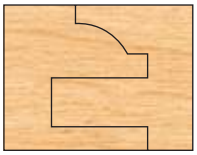
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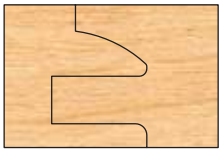
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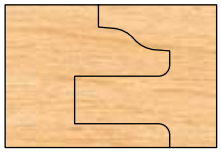
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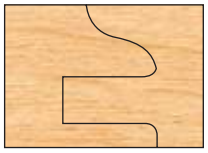
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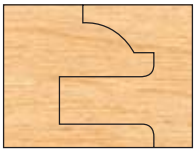
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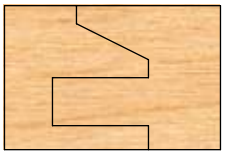
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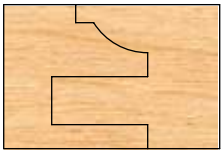
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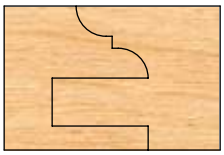
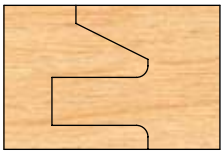

I-10-080

Our multi-profile head will accept any of these 14 profiles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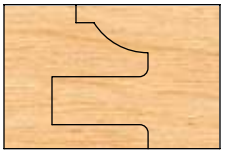
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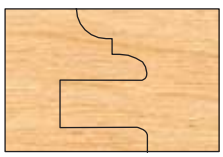

I-10-080-E

INSERT TOOLING - COPE AND PATTERN SETS

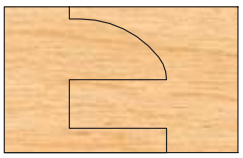
For a more pronounced profile, our 1/2" depth of pattern sets are a great choice, with all of the benefits of our other sets. The tip sets of these profiles are not interchangeable with our other 3 piece sets.

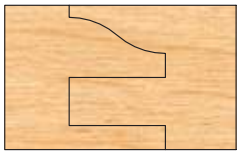
3 Piece insert Cope and Pattern sets to allow easy fit adjustment.

- Common minor diameters and vertical Profile Centering eliminate the need to adjust the spindle height or fence position when switching from cope to pattern cuts
- Heads will accept both square and eased edges
- For 3/4" 7/8" material
- 4-1/2" outside diameter, 3-1/2 minor diameter
- 4" diameter for unique 250/265 available by special order
- 5.5mm x 1/2" tongue available by special order
- 1-1/4" bore
- 1/4 x 1/2 tongue and groove standard
- CCW rotation, material fed face down

When changing your tips, you must clean the heads of any wood residue to allow proper alignment. Failure to do so may result in a loose fit between your Cope and Pattern cuts.

MULTI PROFILE INSERT CUTTERS 3 PIECE - 1/2" DEPTH OF PATTERN


I-10-211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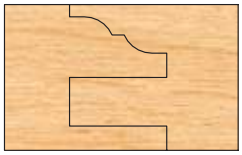
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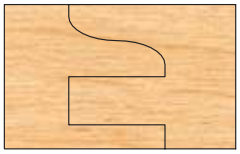
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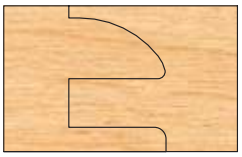
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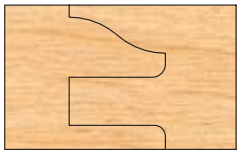
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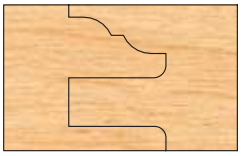
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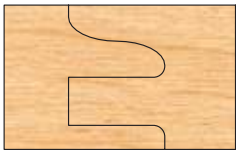
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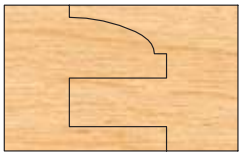
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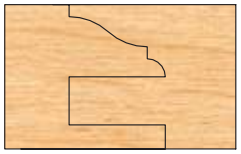
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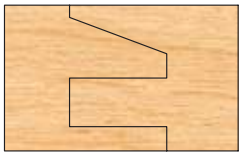
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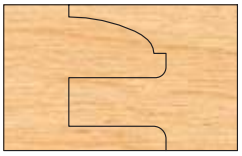
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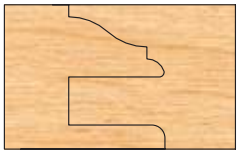
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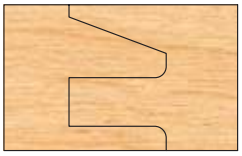
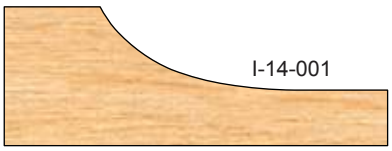
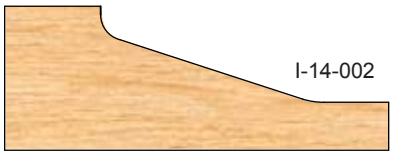
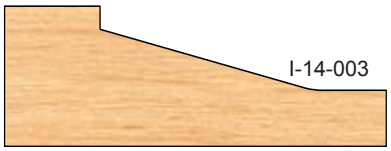

I-10-250-E

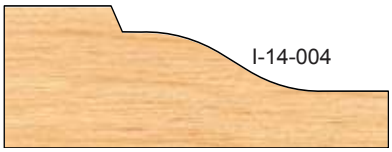
Our multi profile head will accept any of these 14 profiles

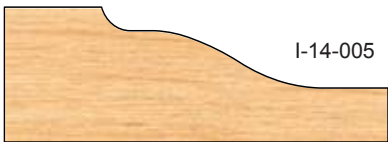
RAISED PANEL INSERT CUTTERS (3/4" MATERIAL)

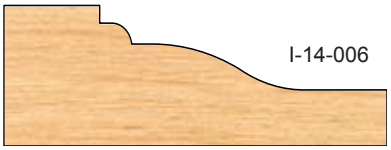


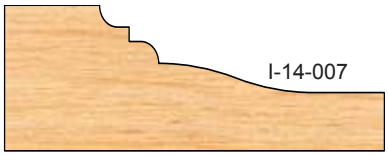


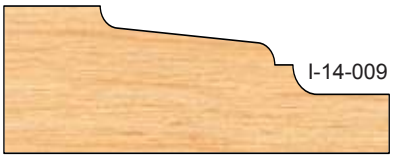


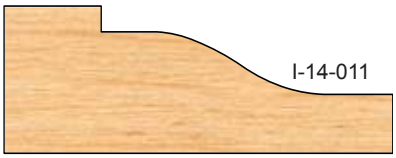


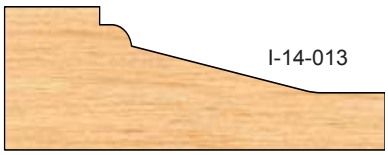








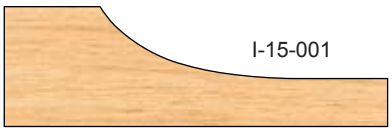


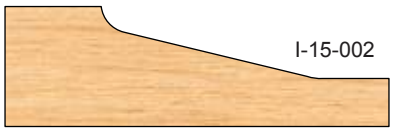


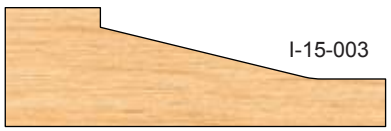
- 3 wing
- 1-1/4" bore
- 6" diameter
- Runs with (AP-90-048) bearing
- CCW, material fed face up

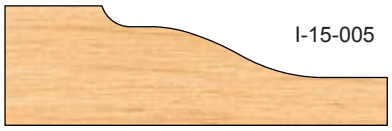
- These are dedicated profile heads (one profile per head)

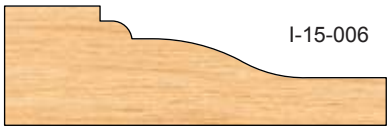
RAISED PANEL INSERT CUTTERS (5/8" MATERIAL)

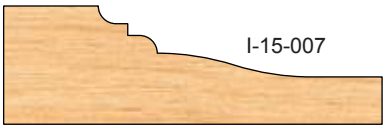


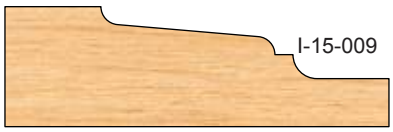


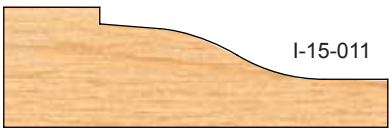


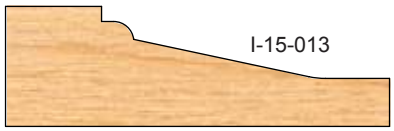








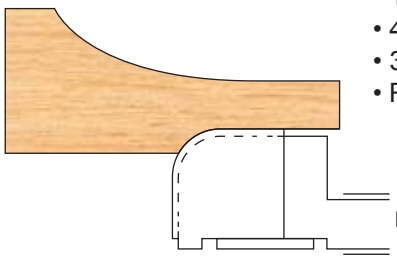




- 3 wing
- 1-1/4" bore
- 6" diameter
- Use with I-16-001 for 3/4" material
- Runs with (AP-90-048) bearing

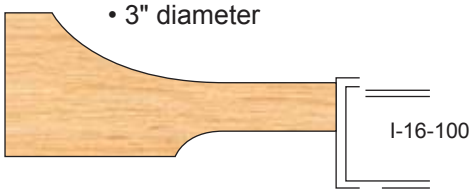
- CCW, material fed face up
- These are dedicated profile heads (one profile per head)

INSERT BACK & TRIM CUTTERS



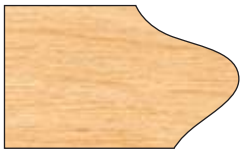
- 3 wing
- 1-1/4" bore
- 4-3/4" diameter
- 3/4" material
- Runs with a(I-15-xxx) panel cutter

- 3 wing
- 1-1/4" bore
- 3" diameter

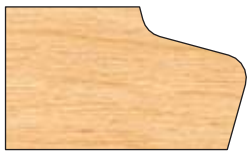


CARBIDE ONLY

DEDICATED DOOR EDGE DETAIL INSERT CUTTERS


I-17-001

I-17-002


I-17-032

I-17-101

I-17-110

I-17-113

I-17-114

- 3 wing
- 1-1/4" bore
- 3-1/2" minor diameter
- 30 mm tips
- CCW, material fed face up
- These are dedicated profile heads (one profile per head)

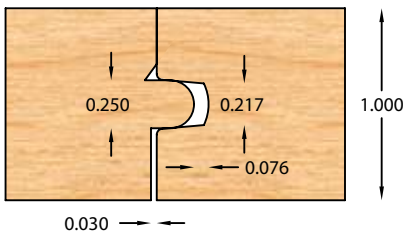
REVERSIBLE GLUE JOINT INSERT CUTTER

I-18-001

- Creates an incredibly strong joint by interlocking the glue surfaces
- 3 wing
- 3-1/2" minor diameter
- 1-1/4" bore
- Cuts from 1/4" to 1-7/8" material
- 50 mm tips
- CCW, fed as shown

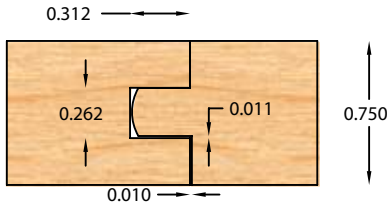
FLOORING SET INSERT CUTTERS 2 PC. SETS

I-19-030



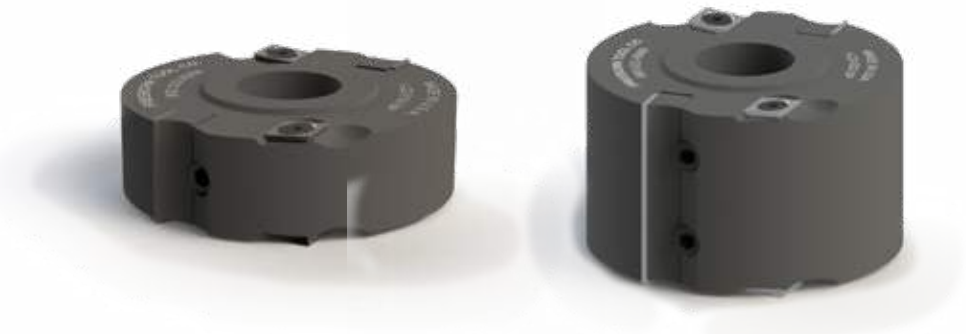
- 3 wing
- 1-1/4" bore
- 3-1/2" minor diameter
- Cuts up to 1" material
- 30 mm tips
- CCW, material fed face down

I-19-500



- 3 wing
- 1-1/4" bore
- 3-1/2" minor diameter
- 30 mm tips
- Cuts up to 1" material
- CCW, material fed face down

STRAIGHT CUTTER INSERTS



Using standard 30mm or 60mm carbide inserts, this is an easy and inexpensive way to perform trim or rabbet cuts.

PLEASE NOTE: spurs are required for all cuts except trimming.

IC-22-016-SP
- 4" Outer Diameter
- 1-1/4" Bore
- 30mm Tip: IC-0300-050
- Spur: IC-0140-060

IC-22-032-SP
- 4" Outer Diameter
- 1-1/4" Bore
- 30mm Tip: IC-0600-050
- Spur: IC-0140-060

STRAIGHT CUTTER INSERTS

IC-22-ADJ

2 piece expandable groover set using 14 x 14 inserts. Set your cut from 12.5mm - 24mm by using the included spacer or shims.
- 6" outer diameter
- 1-1/4" Bore
- 4 cutting / 4 spur
- Tip: IC-0120-050
- Spur: IC-0140-060

SPIRAL CUTTERS INSERTS WITH SPURS

IS-22-032-SP
- 4" Outer Diameter
- 1-1/4" Bore
- 4 Wing
- 2" Height
- Aluminum Body
- Tip: IC-0150-060
- Spur: IC-0140-060

IS-22-048-SP
- 4" Outer Diameter
- 1-1/4" Bore
- 4 Wing
- 3" Height
- Aluminum Body
- Tip: IC-0150-060
- Spur: IC-0140-060

IS-22-064-SP
- 4" Outer Diameter
- 1-1/4" Bore
- 4 Wing
- 4" Height
- Aluminum Body
- Tip: IC-0150-060
- Spur: IC-0140-060

BRAZED TOOLING

COPE & PATTERN (6 Piece Cutter Sets)

MINI-PRO cutters
- 3 wing • 2-15/16" diameter
- 3/4" bore • Runs with a 2-3/16" diameter rub bearing (AM-90-035)
- CCW, material face down

PRO-LINE cutters
- 3 wing • 4" diameter
- 1-1/4" bore • Runs with a 3-1/4" diameter rub bearing (AP-90-052)

Versatile and easy-to-use. These 6 piece cutter sets are designed to perform the 3 functions shown. Our standard sets cut 1/4" wide x 3/8" deep tongue and groove.

Our common minor diameter requires NO fence adjustment when changing from cope to pattern cuts (3/8" tongue only).

Counterclockwise rotation with wood fed face down.

For optional tongue and groove cutters and eased edge option, see page 13 and 14.

*For **opposite rotation**, add 20% to the suggested list price.*

*To order **custom profiles**, see our Custom Made Tooling page in the back of the catalog. Same day quoting.*

Wood samples shown actual size.

For eased edges add 20% to the suggested list price.

See stacking instructions on page 42.

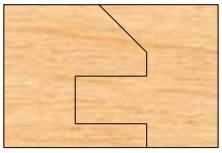
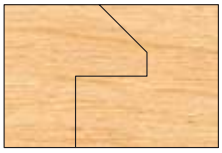
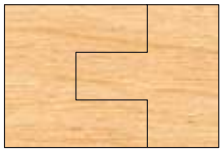
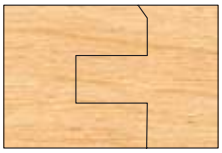
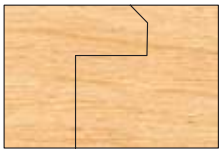
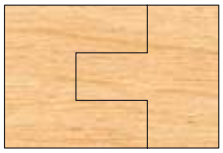
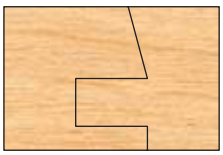
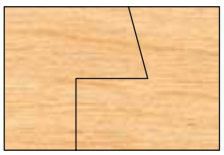
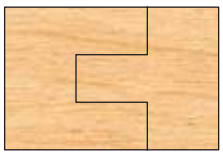
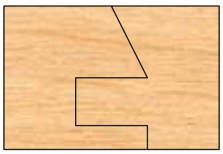
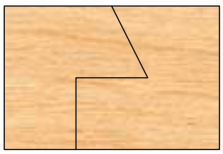
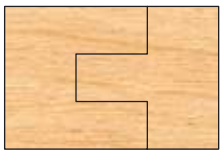
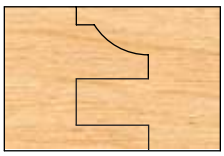
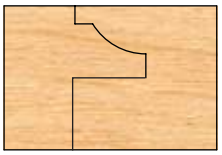
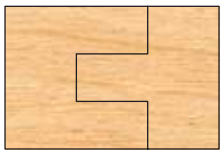
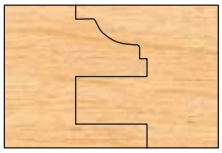
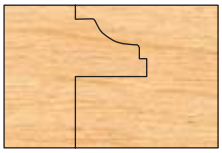
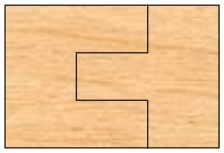
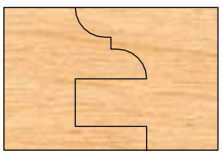
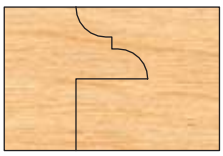
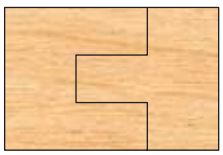
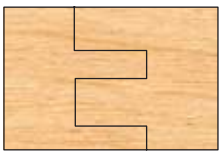
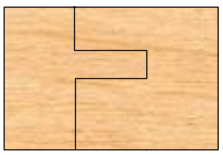
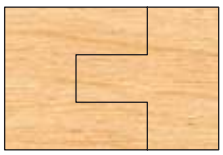
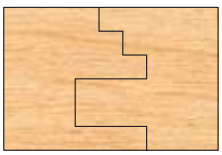
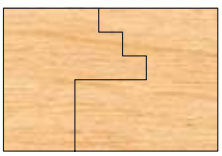
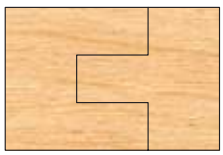
Cope & Pattern 3/4" to 1-1/8" material	Glass Panel 3/4" to 7/8" material	Tongue & Groove 3/4" material
M C 50-010 / P C 10-010 / P T 10-010 — 1/4" x 3/8"		
M C 50-015 / P C 10-015 / P T 10-015 — 1/4" x 3/8"		
M C 50-020 / P C 10-020 / P T 10-020 — 1/4" x 3/8"		
M C 50-025 / P C 10-025 / P T 10-025 — 1/4" x 3/8"		
M C 50-030 / P C 10-030 / P T 10-030 — 1/4" x 3/8"		
M C 50-035 / P C 10-035 / P T 10-035 — 1/4" x 3/8"		
M C 50-040 / P C 10-040 / P T 10-040 — 1/4" x 3/8"		
M C 50-045 / P C 10-045 / P T 10-045 — 1/4" x 3/8"		
M C 50-050 / P C 10-050 / P T 10-050 — 1/4" x 3/8"		

COPE & PATTERN (6 Piece Cutter Sets)

PRODUCT ORDER CODE

M	C	00-000
P	C	00-000
P	T	00-000

M - MINI-PRO (3/4" Bore)
P - PRO-LINE (1-1/4" Bore)
C - Carbide Tip (Orange)
T - T-Alloy Tip (Yellow)

Cope & Pattern 3/4" to 1-1/8" material	Glass Panel 3/4" to 7/8" material	Tongue & Groove 3/4" material	
			M C 50-055 P C 10-055 P T 10-055
			M C 50-058 P C 10-058 P T 10-058
			M C 50-060 P C 10-060 P T 10-060
			M C 50-065 P C 10-065 P T 10-065
			M C 50-070 P C 10-070 P T 10-070
			M C 50-075 P C 10-075 P T 10-075
			M C 50-080 P C 10-080 P T 10-080
			M C 50-090 P C 10-090 P T 10-090
			M C 50-091 P C 10-091 P T 10-091

See stacking instructions on page 42.

*For **opposite rotation**, add 20% to the suggested list price.*

*To order **custom profiles**, see our Custom Made Tooling page in the back of the catalog. Same day quoting.*

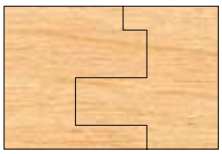
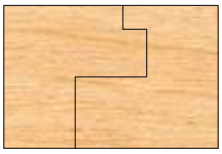
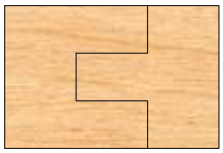
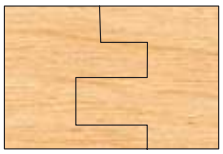
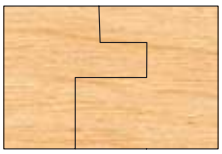
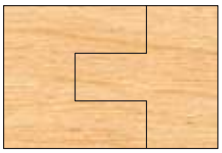
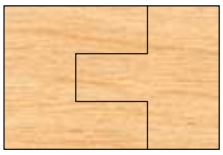
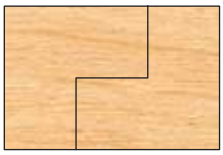
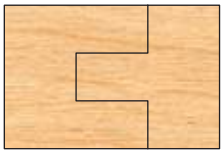
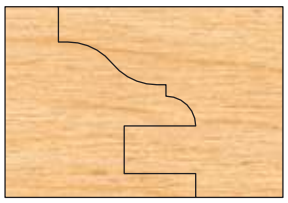
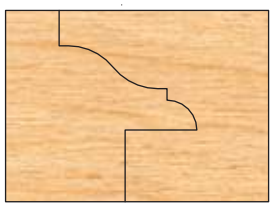
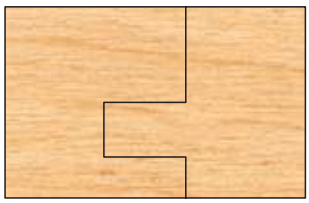
Wood samples shown actual size.

For eased edges add 20% to the suggested list price.

COPE & PATTERN (6 Piece Cutter Sets)

MINI-PRO cutters
• 3 wing • 2-15/16" diameter
• 3/4" bore • Runs with a 2-3/16" diameter rub bearing (AM-90-035)
• CCW, material face down

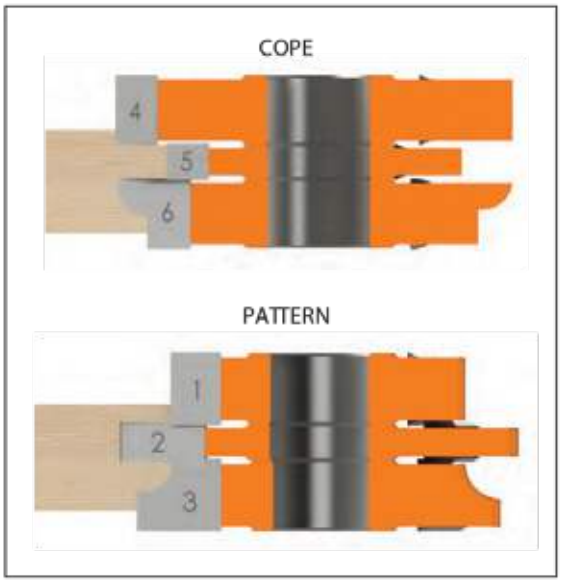
PRO-LINE cutters
• 3 wing • 4" diameter
• 1-1/4" bore • Runs with a 3-1/4" diameter rub bearing (AP-90-052)

Cope & Pattern 3/4" to 1-1/8" material	Glass Panel 3/4" to 7/8" material	Tongue & Groove 3/4" material	
			MC 50-092 PC 10-092 PT 10-092
			MC 50-093 PC 10-093 PT 10-093
			MC 50-500 PC 10-500 PT 10-500
			MC 50-145 PC 10-145 PT 10-145

OPTIONAL EASED EDGE SETS

Eased edges are available on all 10 and 50 series cope and patterns. However, you cannot do glass panel or tongue and groove without optional groovers from page 14. Add 20% to the suggested list price.
PLEASE NOTE: Freeborn Tool Co. will be not responsible for bent center groovers due to incorrect stacking. Be sure to read the stacking instructions included with your cutters.

REMEMBER: *Always stagger cutters when stacking. Never stack wing-to-wing or you will bend the center groover.*



CENTER GROOVER SETS (2 Piece Cutter Sets)

PRODUCT ORDER CODE

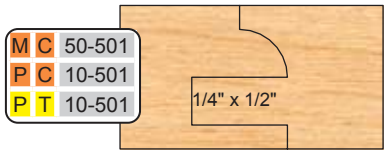
M C 00-000	**M** - MINI-PRO	(3/4" Bore)
P C 00-000	**P** - PRO-LINE	(1-1/4" Bore)
P T 00-000	**C** - Carbide Tip	(Orange)
	T - T-Alloy Tip	(Yellow)

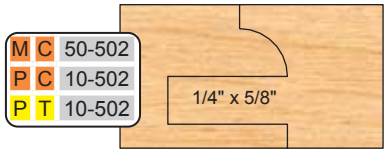
At time of purchase, you may substitute the following tongue & groove cutters for the standard tongue & groove cutters in your cope & pattern set, at no additional charge. If you choose an optional center groover set other than 3/8" depth, you will be unable to do the tongue & groove option.

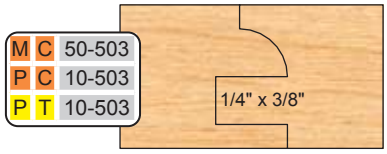
Available on all M-50 and P-10 series cope & patterns.

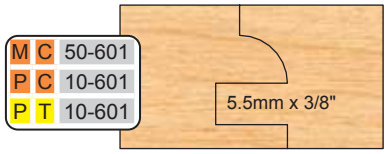
For options other than 3/8" depth, diameters will no longer be the same, requiring fence adjustments between cuts.

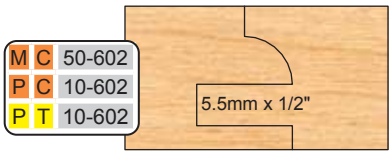
Center Groovers Only - Profile cutters not included

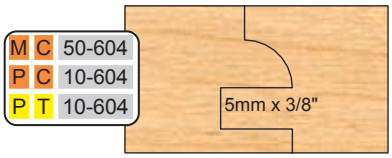


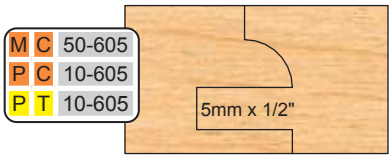


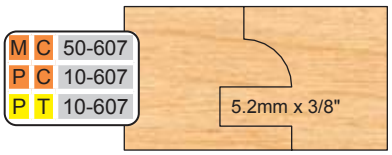


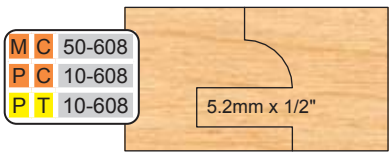


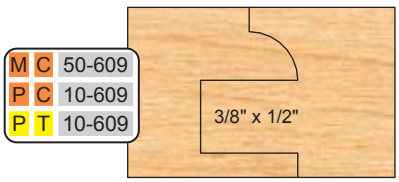


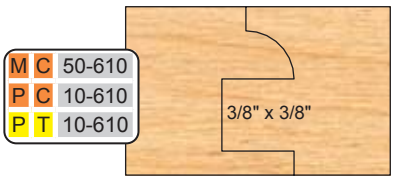


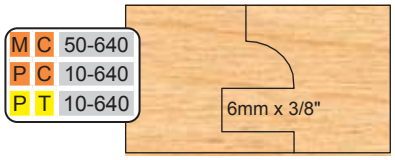


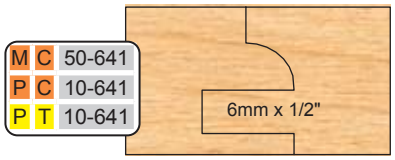




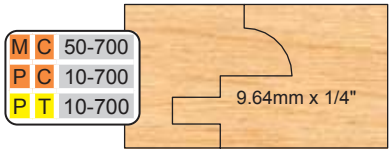




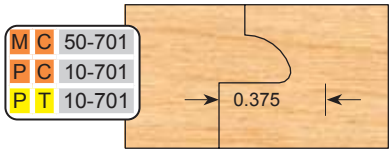




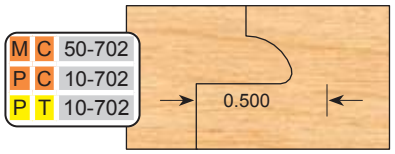
Glass option (for rubber extrusiion)



Eased Edge Glass Groover Pattern Side Groover only



Eased Edge Glass Groover Pattern Side Groover only



CENTER GROOVER SETS (4 Piece Cutter Sets)

These 4 piece split groover sets are used in the 10 and 50 series cope and pattern sets to allow you to cut between 3/16" and just under 3/8" with shims.

NOTE: Provides adjustment for spindle alignment issues. Exchange for standard center groovers for an additional fee.

3/8" Depth	M C 50-403 P C 10-403 P T 10-403	M C 50-403 E E P C 10-403 E E P T 10-403 E E
1/2" Depth	M C 50-401 P C 10-401 P T 10-401	M C 50-401 E E P C 10-401 E E P T 10-401 E E

MINI-PRO cutters
- 3 wing • 3.19" diameter
- 3/4" bore • Runs with rub bearing (AM-90-035)
- CCW, material face down

PRO-LINE cutters
- 3 wing • 4.25" diameter
- 1-1/4" bore • Runs with a rub bearing (AP-90-052)

1/2" DEPTH OF PATTERN

Deeper Profile Sets

Versatile and easy-to-use. These 6 piece cutter sets are designed to perform the 3 functions shown. Our standard sets cut 1/4" wide by 1/2" deep tongue and groove.

Our common minor diameter requires NO fence adjustment when changing from cope to pattern cuts. (1/2" tongue only)

Counterclockwise rotation with wood fed face down.

For opposite rotation add 20% to the suggested list price.

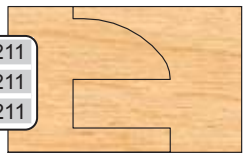
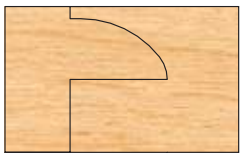
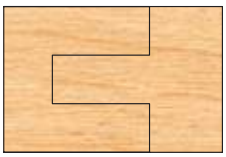
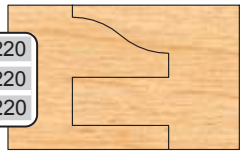
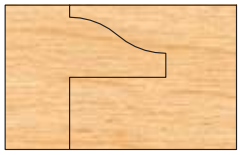
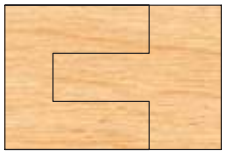
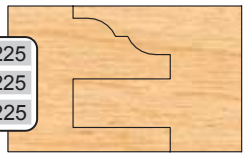
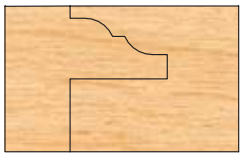
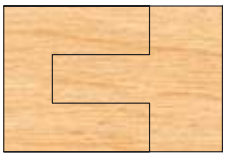
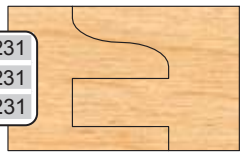
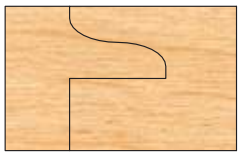
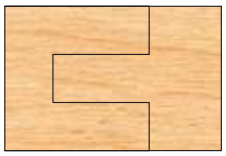
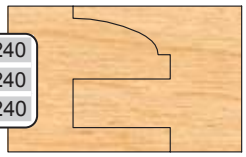
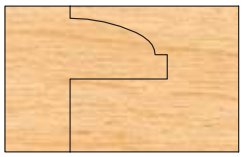
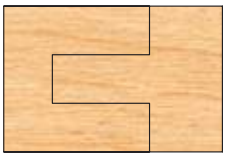
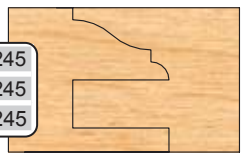
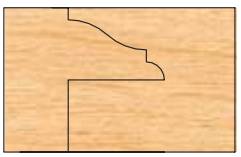
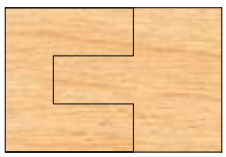
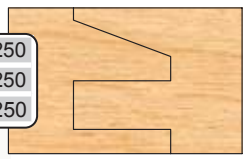
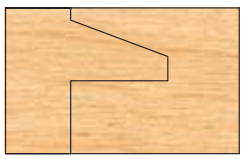
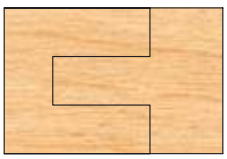
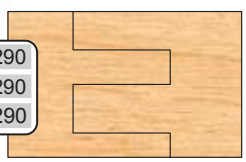
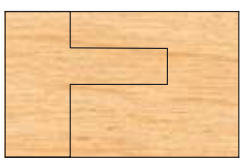
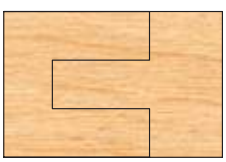
Wood samples shown actual size.

For eased edges add 20% to the suggested list price.

See page 13 for eased edge information

See page 16 for Tongue and Groove options

3/4" to 1-1/8" material

	Cope & Pattern 3/4" to 1-1/8" material	**Glass Panel** 3/4" to 7/8" material	**Tongue & Groove** 3/4" material
M C 50-211 P C 10-211 P T 10-211			
M C 50-220 P C 10-220 P T 10-220			
M C 50-225 P C 10-225 P T 10-225			
M C 50-231 P C 10-231 P T 10-231			
M C 50-240 P C 10-240 P T 10-240			
M C 50-245 P C 10-245 P T 10-245			
M C 50-250 P C 10-250 P T 10-250			
M C 50-290 P C 10-290 P T 10-290			

CENTER GROOVER SETS (2 Piece Cutter Sets)

PRODUCT ORDER CODE

M C	00-000	M - MINI-PRO (3/4" Bore)
P C	00-000	P - PRO-LINE (1-1/4" Bore)
P T	00-000	C - Carbide Tip (Orange)
		T - T-Alloy Tip (Yellow)

For 1/2" DEPTH OF PROFILE SETS
(page 15)

At time of purchase, you may substitute the following tongue & groove cutters for the standard tongue & groove cutters in your cope & pattern

*To order **custom profiles**, see our Custom Made Tooling page in the back of the catalog. Same day quoting.*

Center Grovers Only - Profile cutters not included

M C 50-621 P C 10-621 P T 10-621	5mm x 1/2"	
M C 50-625 P C 10-625 P T 10-625	1/4" x 1/2"	
M C 50-622 P C 10-622 P T 10-622	5.2mm x 1/2"	
M C 50-626 P C 10-626 P T 10-626	3/8" x 1/2"	
M C 50-623 P C 10-623 P T 10-623	5.5mm x 1/2"	
M C 200-700 P C 200-700 P T 200-700		
M C 50-624 P C 10-624 P T 10-624	6mm x 1/2"	
M C 200-700-E P C 200-700-E P T 200-700-E		

SPLIT GROOVER SET

For 1/2" DEPTH OF PROFILE SETS
(page 15)

These 4 piece split groover sets are used in the 10 and 50 series cope and pattern sets to allow you to cut between 3/16" and just under 3/8" with shims.

NOTE: Provides adjustment for spindle alignment issues. Exchange for standard center groovers for an additional fee.

1/2" Depth	M C 50-402 P C 10-402 P T 10-402	M C 50-402-EE P C 10-402-EE P T 10-402-EE

DOUBLE SIDED COPE & PATTERN (8 Piece Cutter Sets)

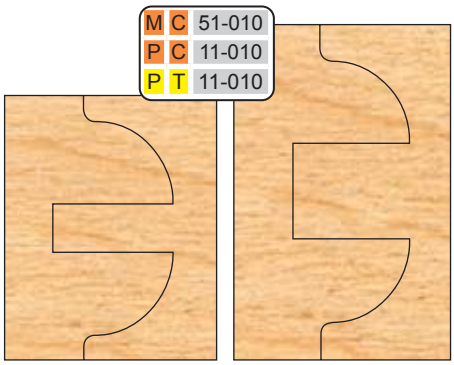
MINI-PRO cutters
• 3 wing • 2-15/16" diameter
• 3/4" bore • Runs with a 1-11/16" diameter rub bearing (AM-90-027)

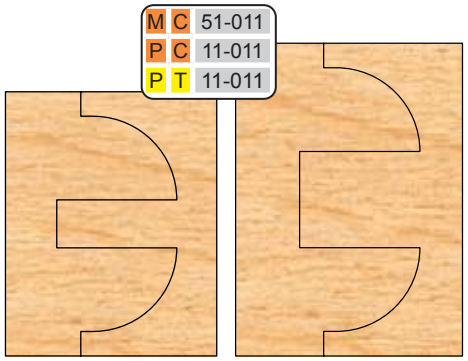
PRO-LINE cutters
• 3 wing • 4" diameter
• 1-1/4" bore • Runs with a 3-1/4" diameter rub bearing (AP-90-044)

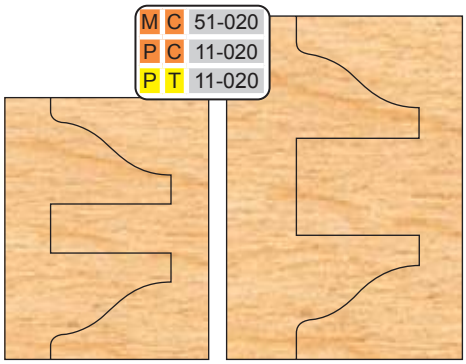
Standard sets cut 1/4" x 5/8" or 1/2" x 5/8" deep tongue and groove. Mini-Pro is not to be used on 1/2" spindle.

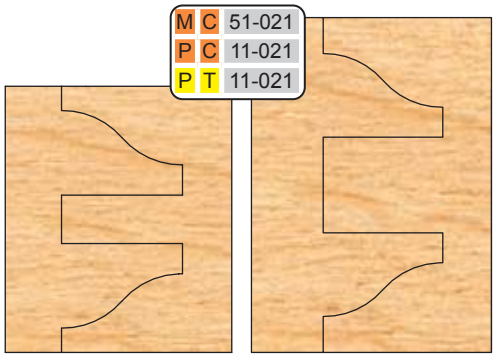
These 8 piece cutter sets are built to cut both 1-3/8" passage doors and 1-3/4" entry doors simply by changing the center cutters.

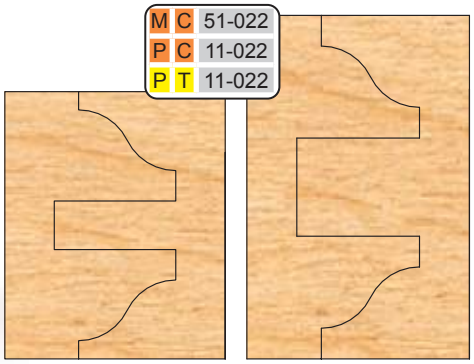
A 2 piece glass panel groover set is also available to run with these sets (see page 19).

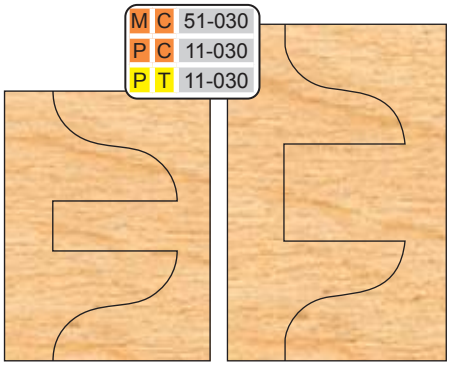


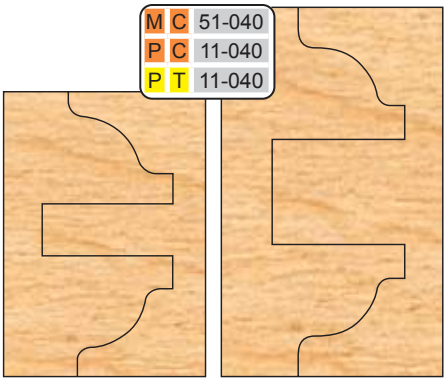


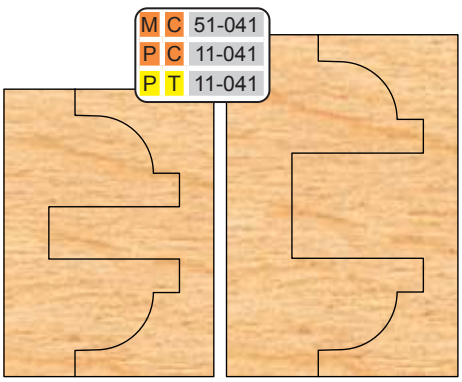












DOUBLE SIDED COPE & PATTERN (8 Piece Cutter Sets)

PRODUCT ORDER CODE

M	C	00-000
P	C	00-000
P	T	00-000

M - MINI-PRO	(3/4" Bore)
P - PRO-LINE	(1-1/4" Bore)
C - Carbide Tip	(Orange)
T - T-Alloy Tip	(Yellow)

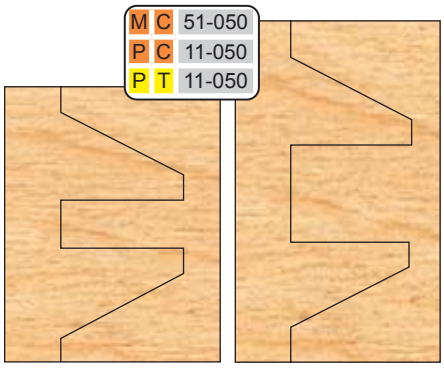
Eased edges are available for an additional 20%.

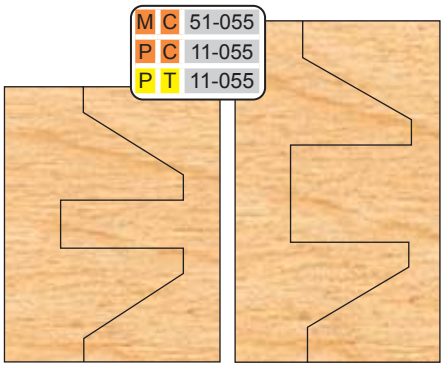
See custom cutter ordering information on inside back cover. Same day quoting.

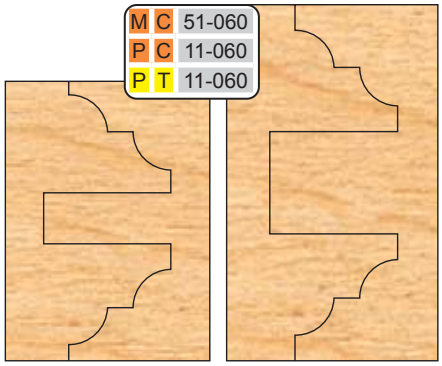
Standard sets cut 1/4" x 5/8" or 1/2" x 5/8" deep tongue and groove. Mini-Pro is not to be used on 1/2" spindle.

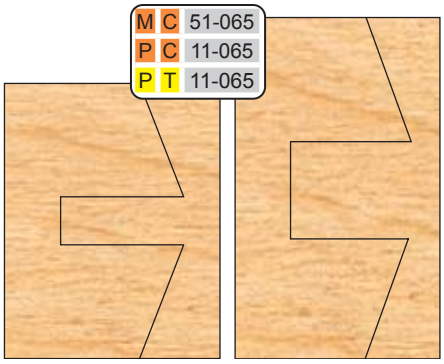
These 8 piece cutter sets are built to cut both 1-3/8" passage doors and 1-3/4" entry doors simply by changing the center cutters.

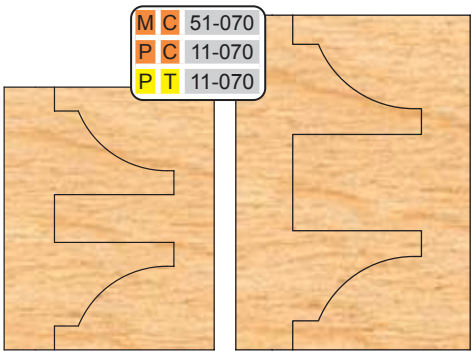
A 2 piece glass panel groover set is also available to run with these sets (see page 19).

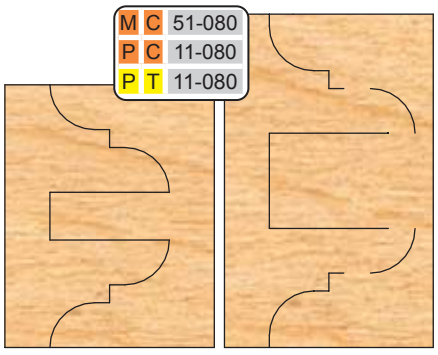


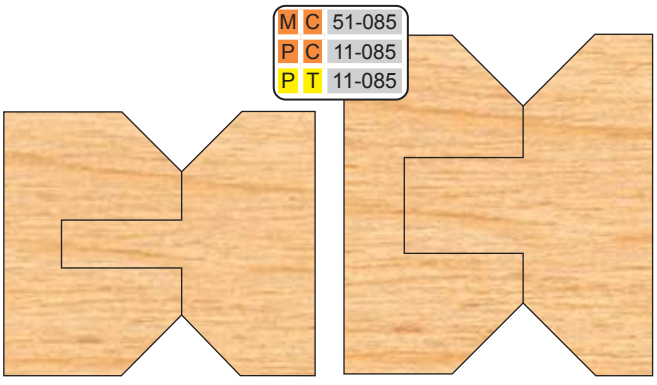


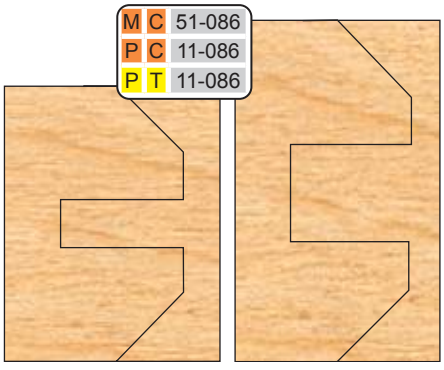












DOUBLE SIDED COPE & PATTERN (8 Piece Cutter Sets)

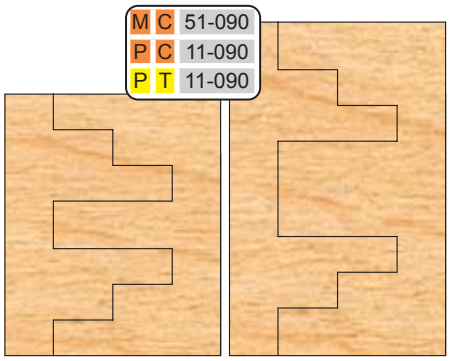
MINI-PRO cutters
• 3 wing • 2-15/16" diameter
• 3/4" bore • Runs with a 1-11/16" diameter rub bearing (AM-90-027)

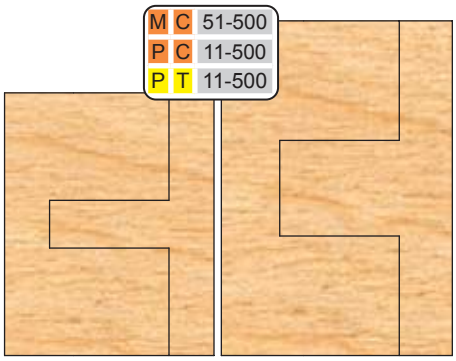
PRO-LINE cutters
• 3 wing • 4" diameter
• 1-1/4" bore • Runs with a 2-3/4" diameter rub bearing (AP-90-044)

Standard sets cut 1/4" x 5/8" or 1/2" x 5/8" deep tongue and groove. Mini-Pro is not to be used on 1/2" spindle.

These 8 piece cutter sets are built to cut both 1-3/8" passage doors and 1-3/4" entry doors simply by changing the center cutters.

Any of the below groover sets may be exchanged at no charge at the time of purchase.





DOUBLE SIDED COPE & PATTERN GROOVER OPTIONS (2 Piece Groover Sets)

5/8" Deep Center Groover Chart		
	• MINI PRO SET	• PRO-LINE SET
1/4" GROOVERS ONLY	MC-51-904	PC-11-904
		PT-11-904
3/8" GROOVERS ONLY	MC-51-903	PC-11-903
		PT-11-903
1/2" GROOVERS ONLY	MC-51-905	PC-11-905
		PT-11-905

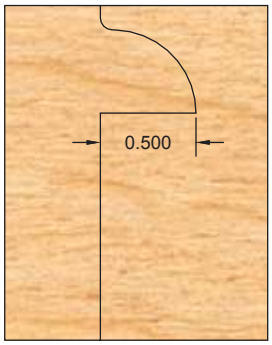
1/2" Deep Center Groover Chart		
	• MINI PRO SET	• PRO-LINE SET
1/4" x 1/2"	MC-51-906	PC-11-906
		PT-11-906
3/8" x 1/2"	MC-51-907	PC-11-907
		PT-11-907
1/2" x 1/2"	MC-51-908	PC-11-908
		PT-11-908

DOUBLE SIDED COPE & PATTERN GLASS PANEL OPTIONS (2 Piece Groover Sets)

These Glass Panel sets consist of 2" groovers to allow a total material height of 2-1/2" when run with the profile cutters from your Cope and Pattern set. Any of the Double Sided Cope and Pattern profiles can be made into dedicated Glass Panel sets and are shown on pages 20 and 21.

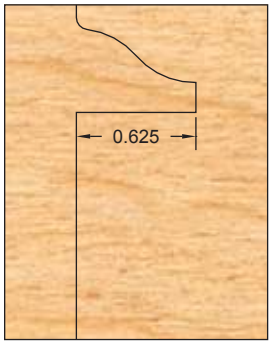
Profile shapes are for example only. Set consists of 2 groovers only.

MC 52-011
PC 12-011
PT 12-011



Runs with 010, 011, 022, 040, 041, 060 and 500.

MC 52-021
PC 12-021
PT 12-021



Runs with 020, 021, 030, 050, 070, 080, 090 and 500.

GLASS PANEL (4 Piece Sets)

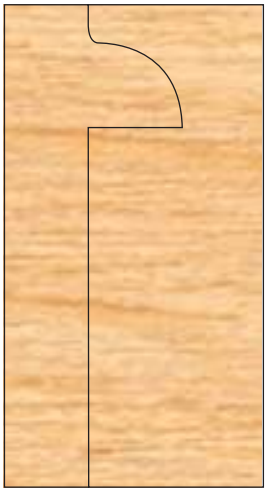
MINI-PRO cutters
- 3 wing • 2-15/16" diameter
- 3/4" bore • Runs with a 1-11/16" diameter rub bearing (AM-90-027)

PRO-LINE cutters
- 3 wing • 4" diameter
- 1-1/4" bore • Runs with a 2-3/4" diameter rub bearing (AP-90-044)

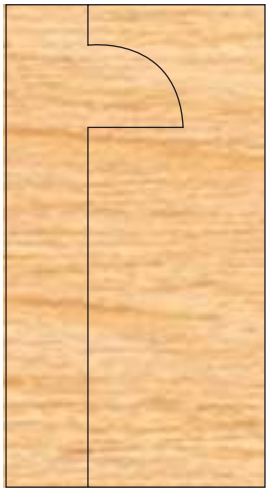
Freeborn Tool company now offers 4 piece Glass Panel Sets. Each set comes with 2 profile cutters and 2 glass panel goovers matched to the depth of the profile, either 1/2" or 5/8". In addition, for profiles 065-086 which have a different profile depth, you can choose between either the 1/2" or 5/8 deep glass panel cut.

Glass Panel sets are designed to cut up to 2-1/2" material, utilizing a 2" groover, and the profile cutter

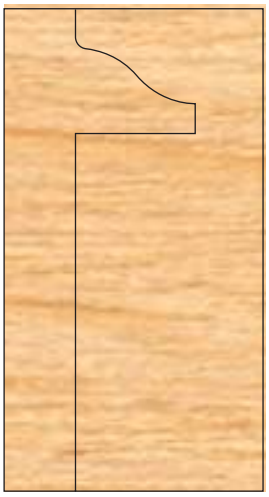
MC 51-010-GP
PC 11-010-GP
PT 11-010-GP



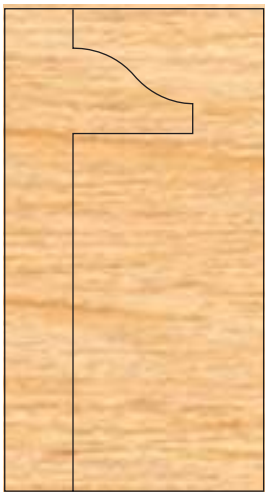
MC 51-011-GP
PC 11-011-GP
PT 11-011-GP



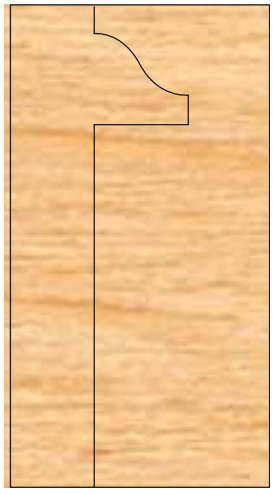
MC 51-020-GP
PC 11-020-GP
PT 11-020-GP



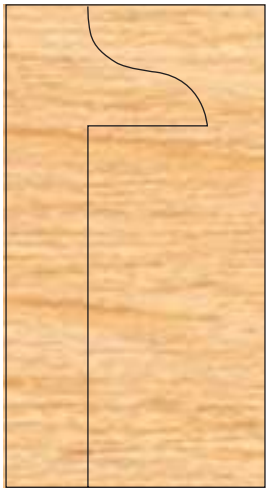
MC 51-021-GP
PC 11-021-GP
PT 11-021-GP



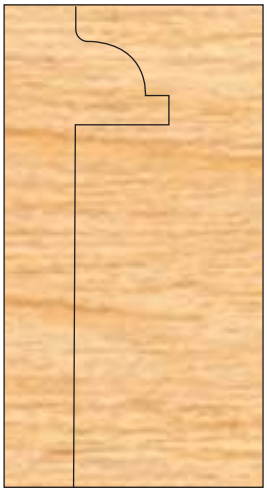
MC 51-022-GP
PC 11-022-GP
PT 11-022-GP



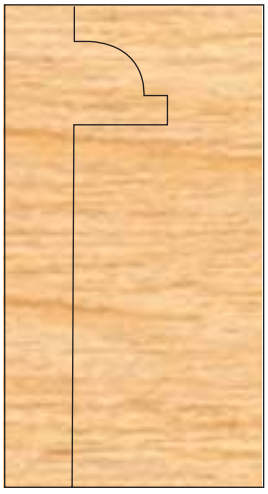
MC 51-030-GP
PC 11-030-GP
PT 11-030-GP



MC 51-040-GP
PC 11-040-GP
PT 11-040-GP



MC 51-041-GP
PC 11-041-GP
PT 11-041-GP



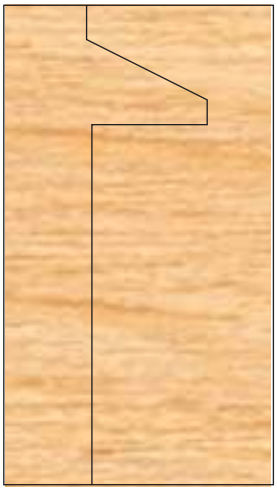
GLASS PANEL (4 Piece Sets)

Glass Panel sets are designed to cut up to 2-1/2" material, utilizing a 2" groover, and the profile cutter

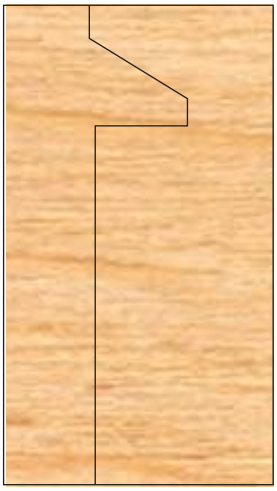
MINI-PRO cutters
- 3 wing • 2-15/16" diameter
- 3/4" bore • Runs with a 1-11/16" diameter rub bearing (AM-90-027)

PRO-LINE cutters
- 3 wing • 4" diameter
- 1-1/4" bore • Runs with a 2-3/4" diameter rub bearing (AP-90-044)

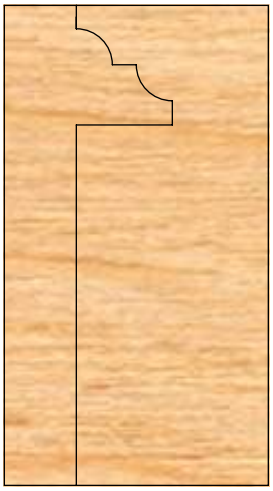
M C 51-050-GP
P C 11-050-GP
P T 11-050-GP



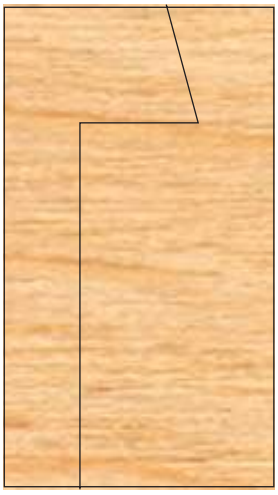
M C 51-055-GP
P C 11-055-GP
P T 11-055-GP



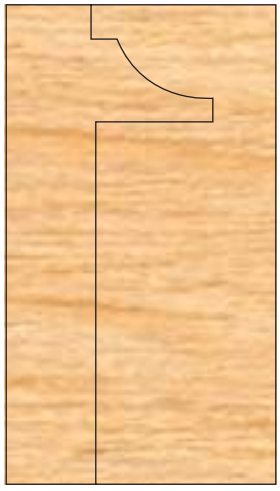
M C 51-060-GP
P C 11-060-GP
P T 11-060-GP



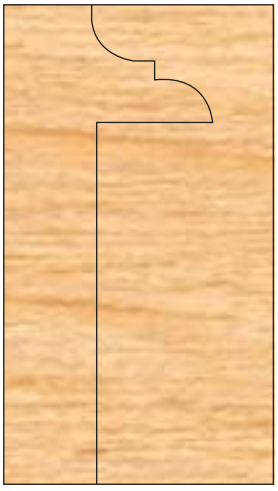
M C 51-065-GP
P C 11-065-GP
P T 11-065-GP



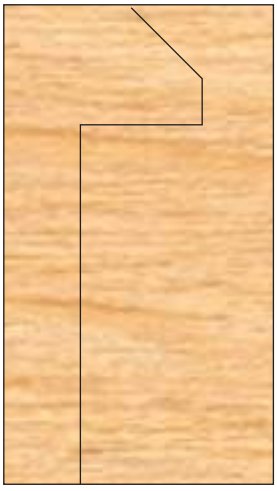
M C 51-070-GP
P C 11-070-GP
P T 11-070-GP



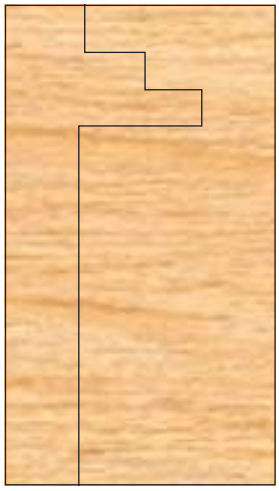
M C 51-080-GP
P C 11-080-GP
P T 11-080-GP

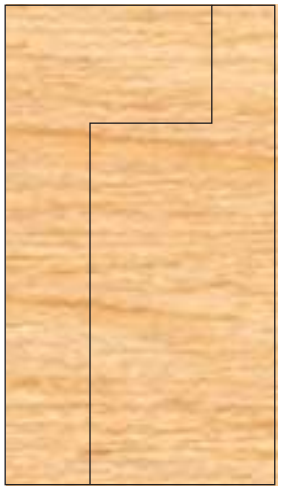


M C 51-086-GP
P C 11-086-GP
P T 11-086-GP



M C 51-090-GP
P C 11-090-GP
P T 11-090-GP





M C 51-500-GP
P C 11-500-GP
P T 11-500-GP

For profile 065 and 086 let us know at the time of order what depth you would like the glass panel cut to be: either 1/2" or 5/8" deep.

RAISED PANEL SHAPER CUTTERS (3/4" MATERIAL)

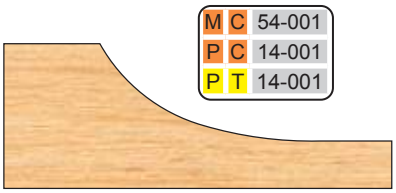
MINI-PRO cutters
• 3 wing • 4-1/2" diameter
• 3/4" bore • Runs with a 1-5/8" diameter rub bearing (AM-90-026)

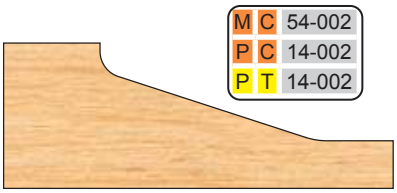
PRO-LINE cutters
• 3 wing • 6" diameter
• 1-1/4" bore • Runs with a 3" diameter rub bearing (AP-90-048)

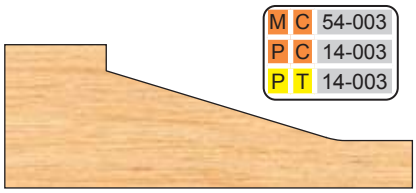
Our raised panel cutters are manufactured with 15º SHEAR to produce optimum cuts both with and across the grain.

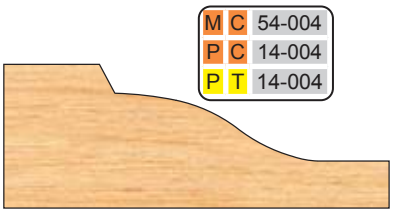
Counterclockwise rotation with wood fed face up.

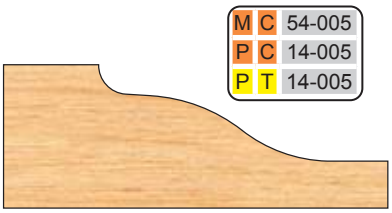
*For **opposite rotation**, add 20% to the suggested list price.*

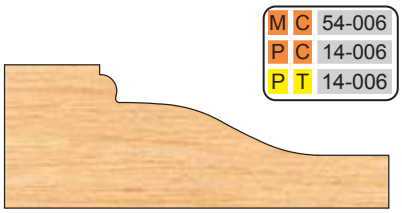


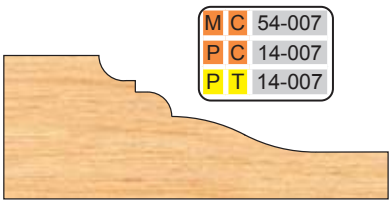


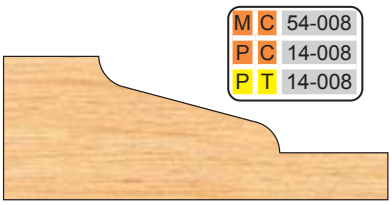


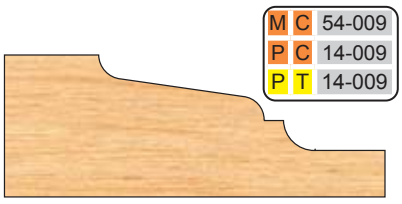


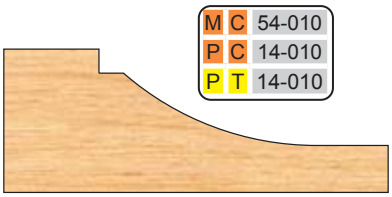


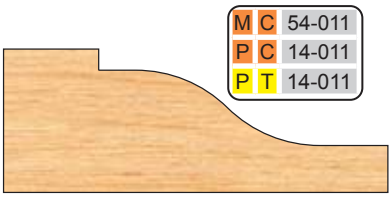


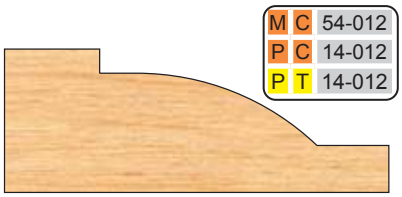


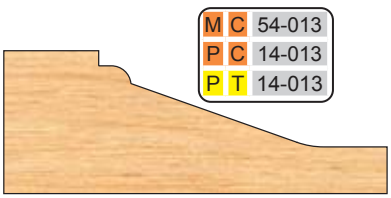


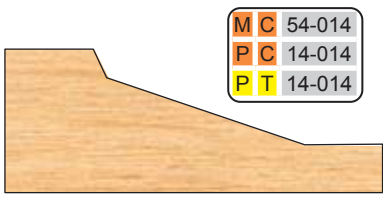


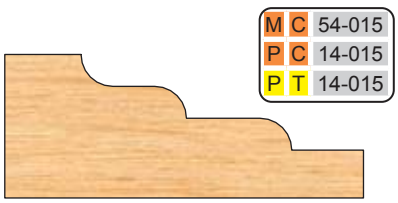








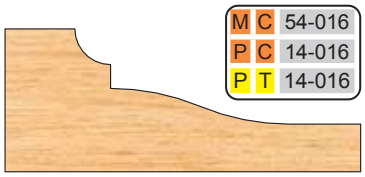


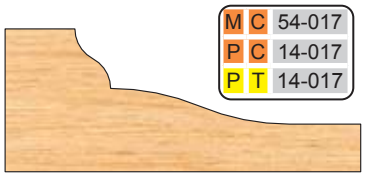


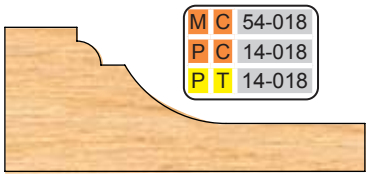
RAISED PANEL SHAPER CUTTERS (3/4" MATERIAL)

MINI-PRO cutters
• 3 wing • 4-/12" diameter
• 3/4" bore • Runs with a 1-5/8" diameter rub bearing (AM-90-026)

PRO-LINE cutters
• 3 wing • 6" diameter
• 1-1/4" bore • Runs with a 3" diameter rub bearing (AP-90-048)





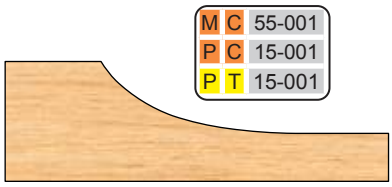


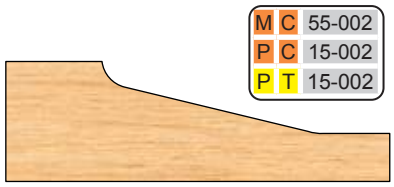
RAISED PANEL SHAPER CUTTERS (5/8" MATERIAL)

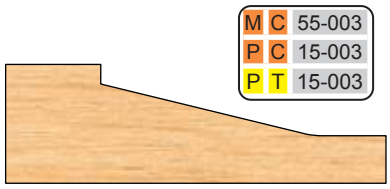
MINI-PRO cutters
• 3 wing • 4-1/2" diameter
• 3/4" bore • Runs with a 1-5/8" diameter rub bearing (AM-90-026)

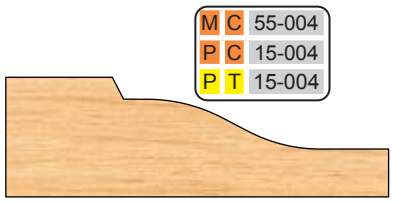
PRO-LINE cutters
• 3 wing • 6" diameter
• 1-1/4" bore • Runs with a 3" diameter rub bearing (AP-90-048)

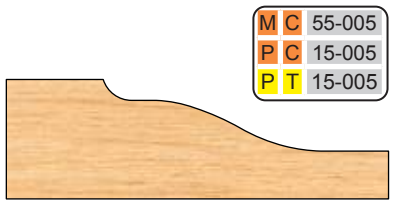
Use with a back cutter to cut 3/4" material.

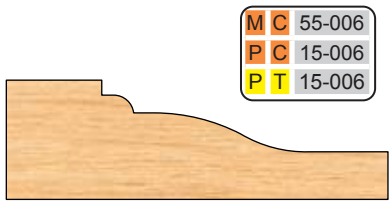


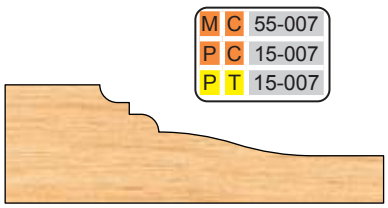


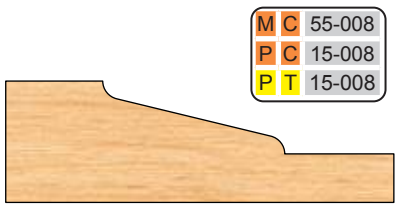


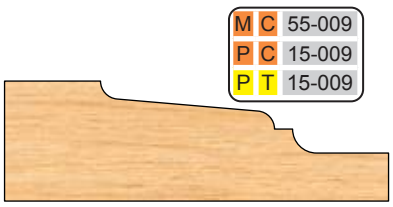


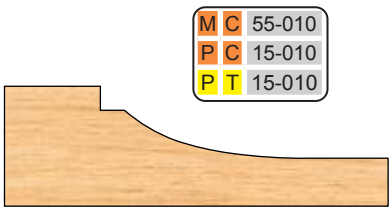


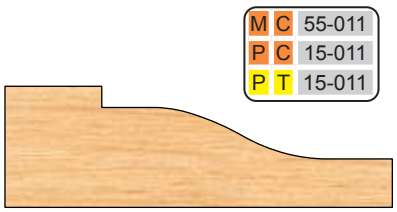


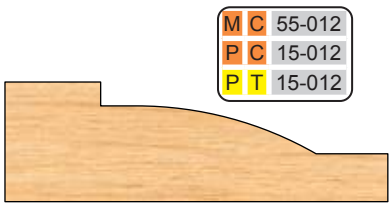












RAISED PANEL SHAPER CUTTERS (5/8" MATERIAL)

MINI-PRO cutters
• 3 wing • 4-1/2" diameter
• 3/4" bore • Runs with a 1-5/8" diameter rub bearing (AM-90-026)

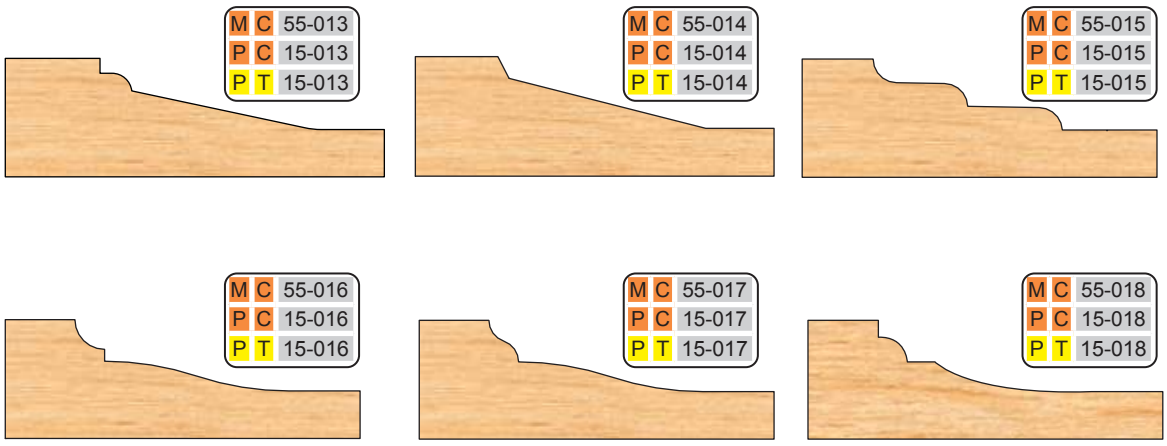
PRO-LINE cutters
• 3 wing • 6" diameter
• 1-1/4" bore • Runs with a 3" diameter rub bearing (AP-90-048)

Use with a back cutter to cut 3/4" material.

Our raised panel cutters are manufactured with 15º SHEAR to produce optimum cuts both with and across the grain.

Counterclockwise rotation with wood fed face up.

*For **opposite rotation**, add 20% to the suggested list price.*



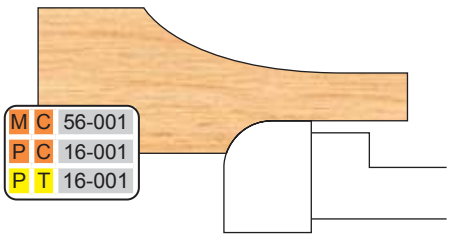
BACK CUTTERS - RAISED PANEL (3/4" MATERIAL)

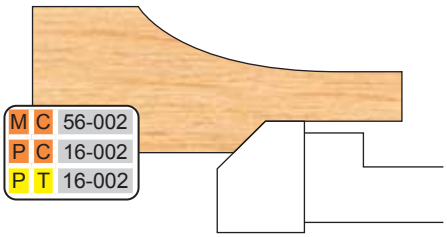
MINI-PRO cutters
• 3 wing • 1-5/8" diameter
• 3/4" bore

PRO-LINE cutters
• 3" diameter
• 3/4" bore

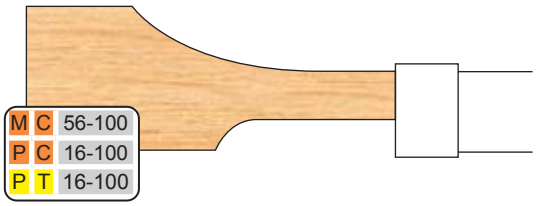
Does not include Raised Panel Cutter

Use with a 55/15 series raised panel for 3/4" material.





RAISED PANEL TONGUE TRIMMER



MINI-PRO cutters
• 3 wing • 3-3/8" diameter
• 3/4" bore

PRO-LINE cutters
• 3-3/8" diameter
• 3/4" bore

Does not include Raised Panel Cutter

RAISED PANEL SHAPER CUTTERS (1/2" MATERIAL)

PRO-LINE cutters
- 3 wing • 1-1/4" bore
- designed to run with a 3" diameter rub bearing (AP-90-048)

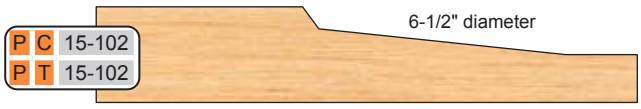
Available in pro-line only

Manufactured with 15º SHEAR to produce optimum cuts both with and across the grain.

Counterclockwise rotation with wood fed face up.

These raised panel cutters cut a 1-3/8" reveal plus a 3/8" long tongue. Reduce production time by adding an opposite rotation cutter, and produce double sided raised panels in a single pass.

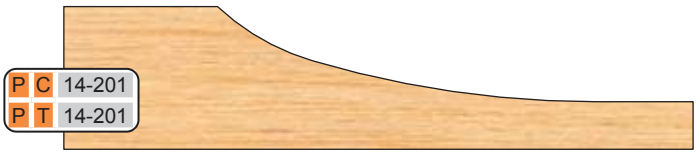
Opposite rotation cutters are made to order.

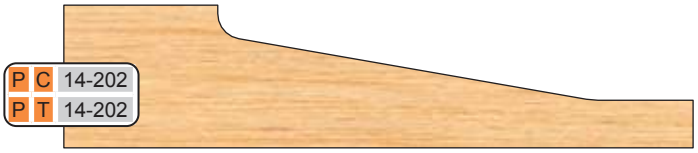


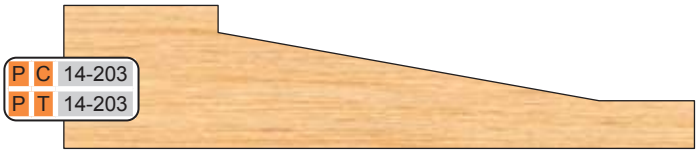
RAISED PANEL SHAPER CUTTERS

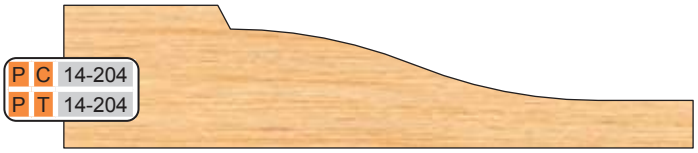
PRO-LINE cutters
- 3 wing • 1-1/4" bore
- designed to run with a 2-1/4" diameter rub bearing (AP-90-036)
- Available in pro-line only
- Diameters vary from 7-1/4" to 7-1/2"
- 2-1/2" overall depth of cut
- 1/2" Tenon

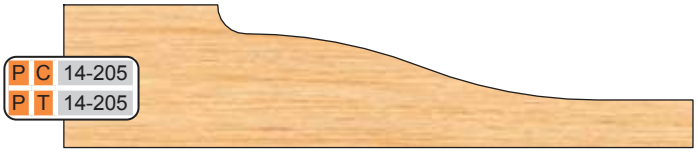
3/4" material



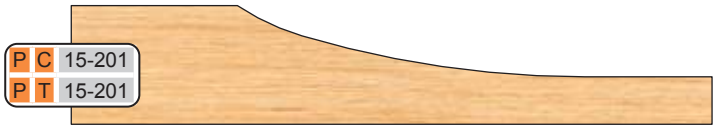


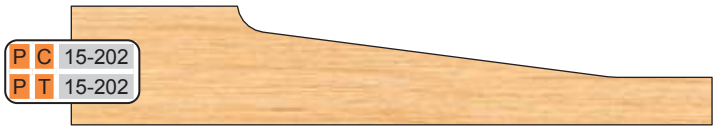


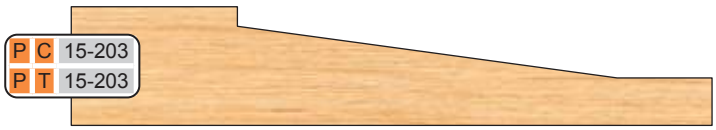


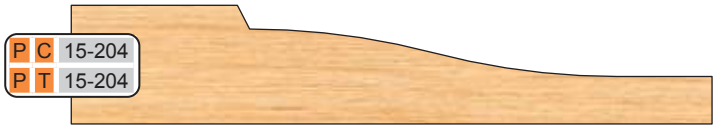


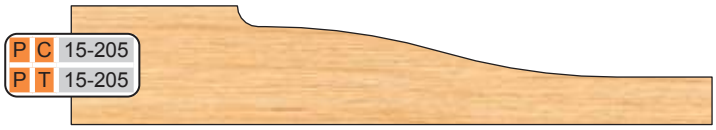
5/8" material











DOOR EDGE DETAIL SHAPER CUTTERS

MINI-PRO cutters
- 3 wing • 2-15/16" diameter
- 3/4" bore • 1" wide tips

PRO-LINE cutters
- 3 wing • 4" diameter
- 1-1/4" bore • 1" wide tips

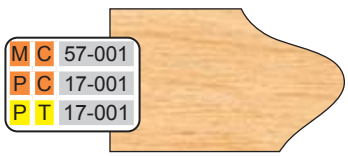
All of these wood samples are full scale as shown. Whether it is a 30º back bevel, fingerpull, 3/8" offset, or flush overlay door, we offer a wide selection to choose from.

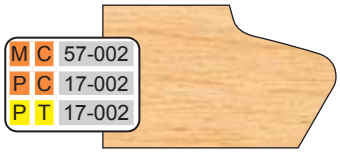
Counterclockwise rotation with wood fed face up.

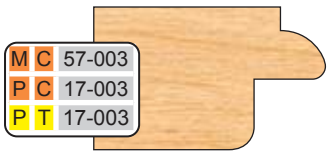
To order **custom profiles**, *see our Custom Made Tooling page in the back of the catalog.*

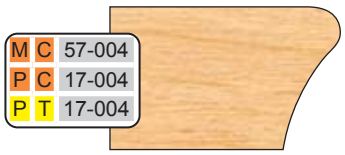
For **opposite rotation**, *add 20% to the suggested list price.*

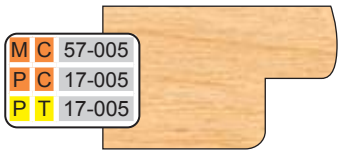
Wood samples shown actual size.

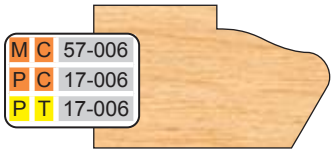


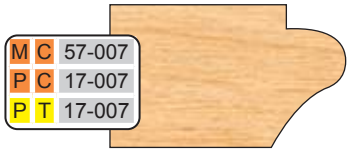


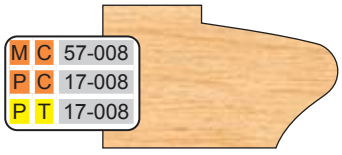


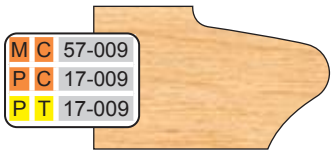


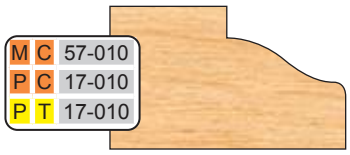


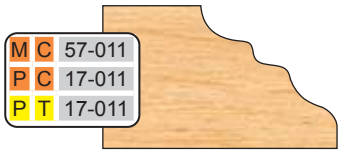


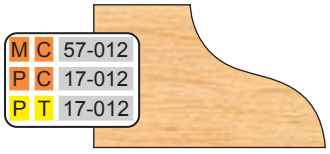


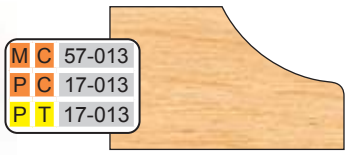


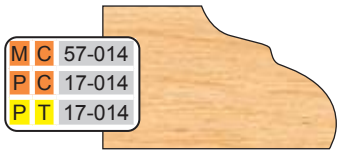


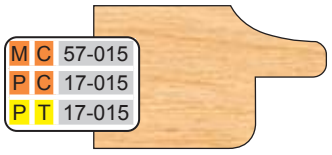


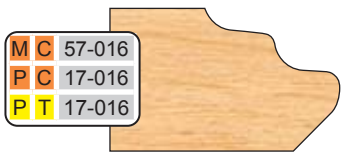


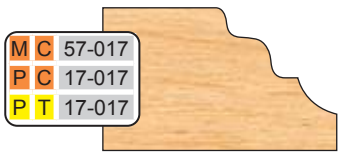


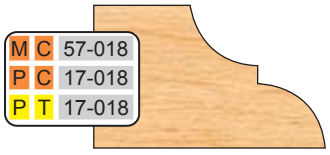


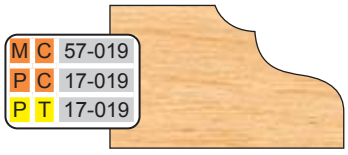


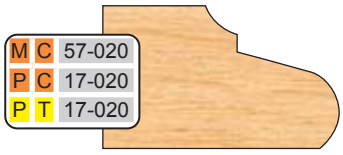


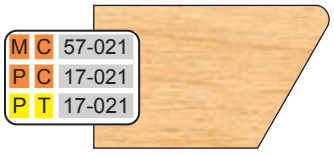


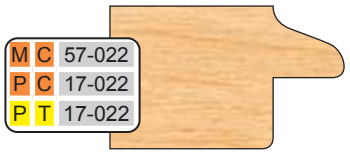


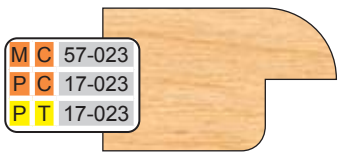


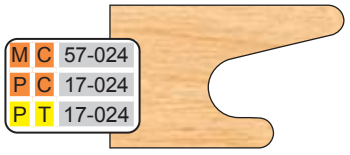


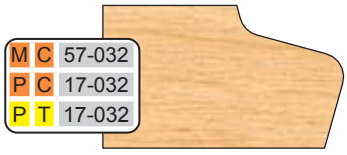




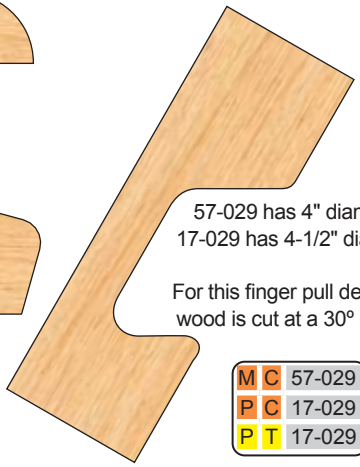








Similar to 002 profile but .100 backout



57-029 has 4" diameter
17-029 has 4-1/2" diameter

For this finger pull detail, the wood is cut at a 30º incline.

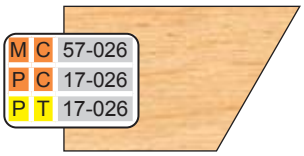
DOOR EDGE DETAIL BEVEL CUTTERS

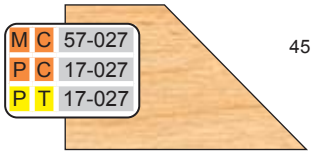
MINI-PRO cutters
- 3 wing
- 3/4" bore • 1" wide tips

PRO-LINE cutters
- 3 wing
- 1-1/4" bore • 1" wide tips

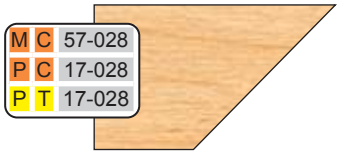
For a different angle or a wider bevel cutter than those shown, ask our custom cutter department for a quote (See inside back cover).

30° Bevel

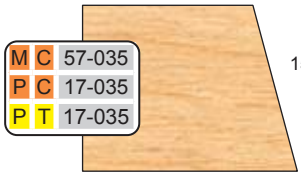




45 Bevel



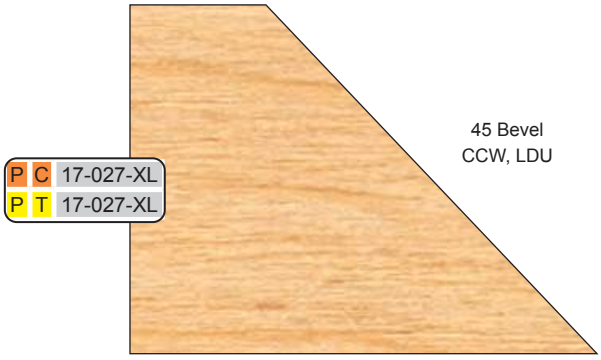
22.5° Bevel



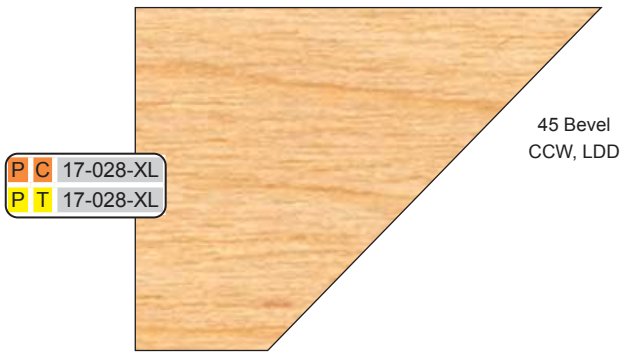
15 Bevel

DOOR EDGE DETAIL XL BEVEL CUTTERS

PRO-LINE cutters
- 3 wing
- 1-1/4" bore • 1-3/4" wide tips



45 Bevel
CCW, LDU



45 Bevel
CCW, LDD

DOOR EDGE DETAILS (32MM HINGE SYSTEM)

MINI-PRO cutters
- 3 wing • 2-1/16" minor diameter
- 3/4" bore

PRO-LINE cutters
- 3 wing • 3-1/16" minor diameter
- 1-1/4" bore

Major diameter varies with depth of cut

Part number is for top cutter only.

Manufactured with 15º SHEAR to produce optimum cuts both with and across grain.

Counterclockwise rotation with wood fed face up.

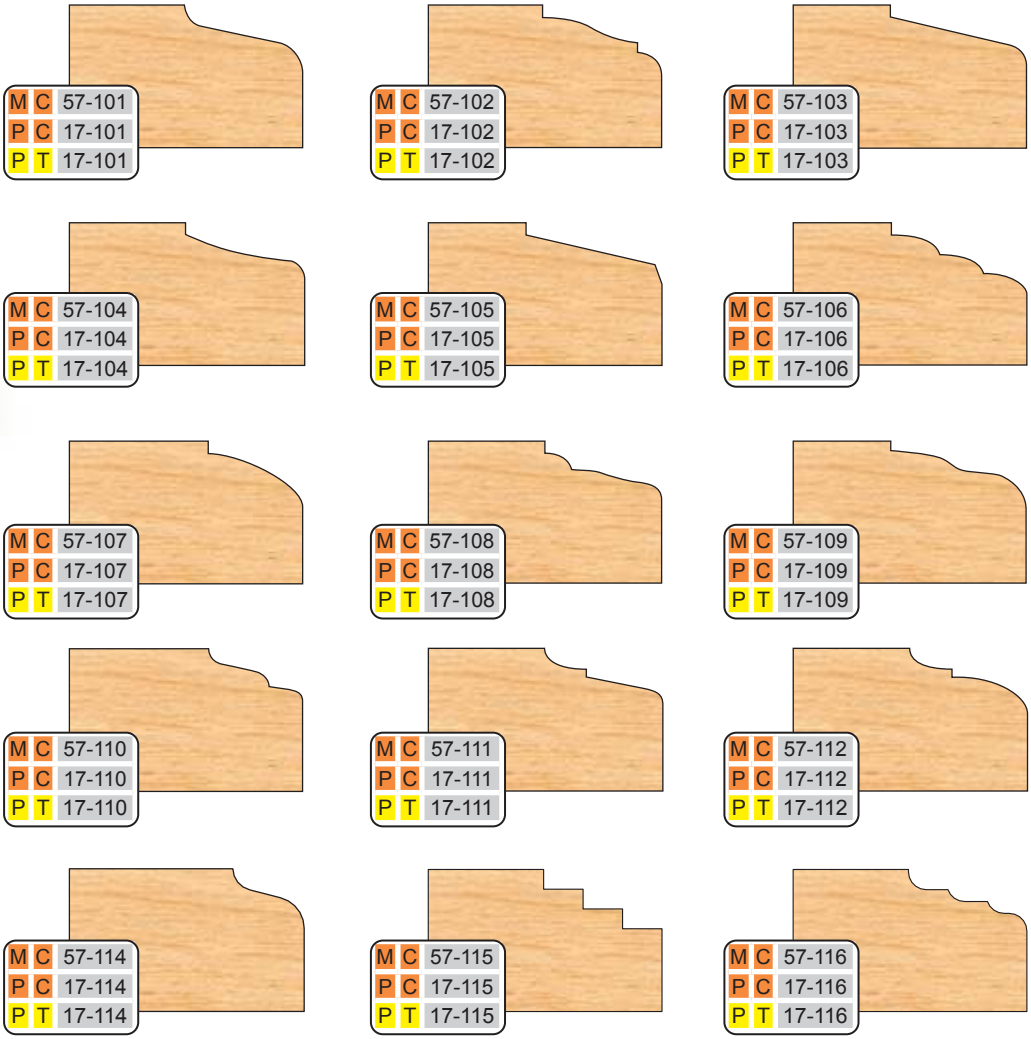
Any top cutter is designed to nest and run with any bottom cutter.

For ***opposite rotation****, add 20% to the suggested list price.*

To order ***custom profiles****, see our Custom Made Tooling page in the back of the catalog. Same day quoting.*

Wood samples shown actual size.

Top Cutter Profiles 3/4" to 7/8" material

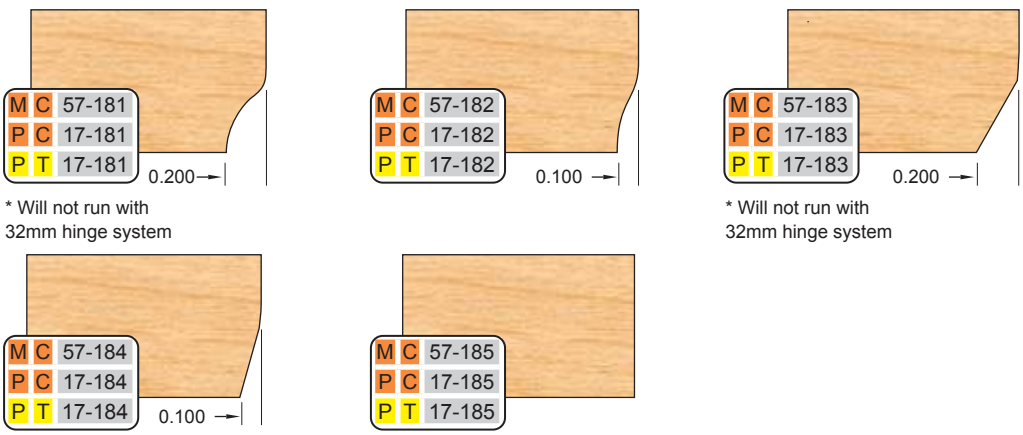


Bottom cutters for 32mm Hinge Systems are designed to nest and run with any top cutter listed.

Selection of bottom cutter should depend upon the distance of the bored hole for the hinge from the edge of the door.

Manufactured to the same specifications as all top cutters.

Bottom Cutter Profiles



* Will not run with 32mm hinge system

* Will not run with 32mm hinge system

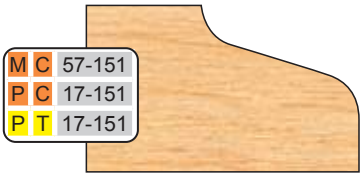
PRODUCT ORDER CODE

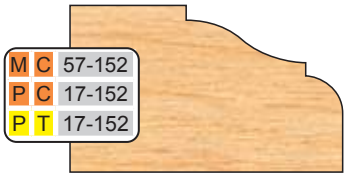
M	C	00-000
P	C	00-000
P	T	00-000

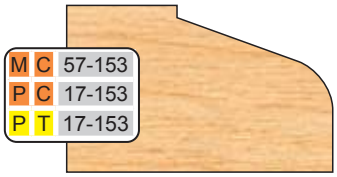
M - MINI-PRO (3/4" Bore)
P - PRO-LINE (1-1/4" Bore)
C - Carbide Tip (Orange)
T - T-Alloy Tip (Yellow)

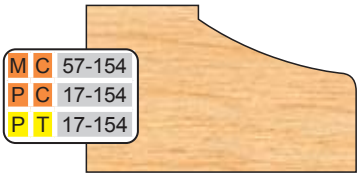
Top Cutter Profiles 7/8" to 1" material

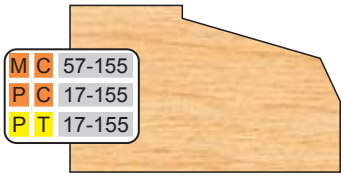
Part number is for top cutter only.

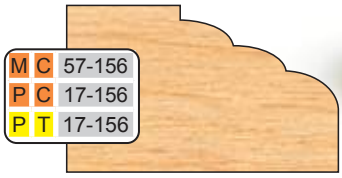


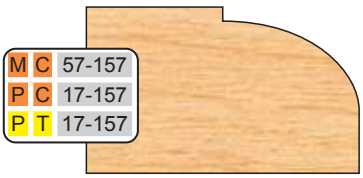


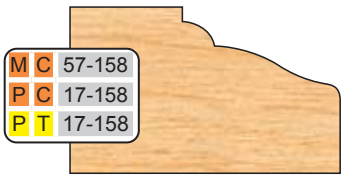


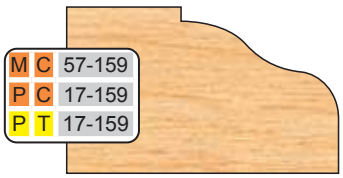


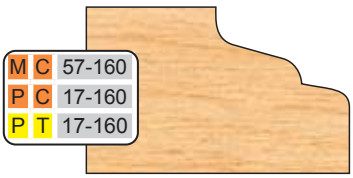


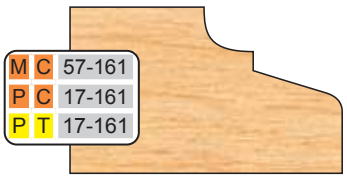


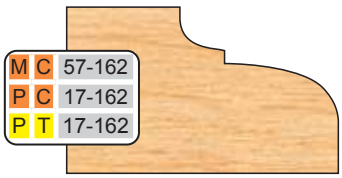


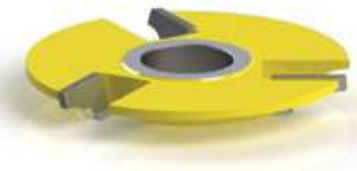












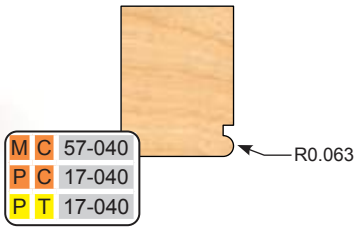
To order **custom profiles**, *see our Custom Made Tooling page in the back of the catalog. Same day quoting.*

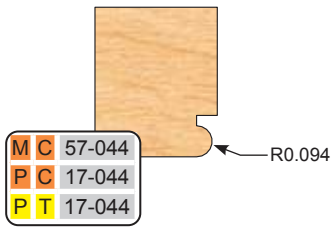
Wood samples shown actual size.

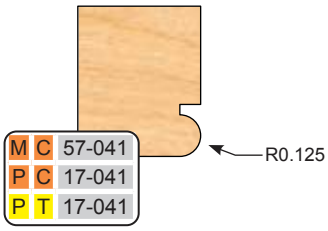
BEAD CUTTERS

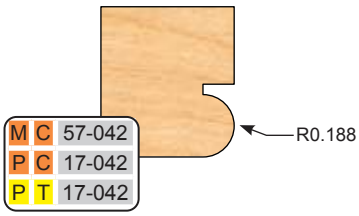
MINI-PRO cutters
- 3 wing
- 3/4" bore
- 2-15/16" diameter

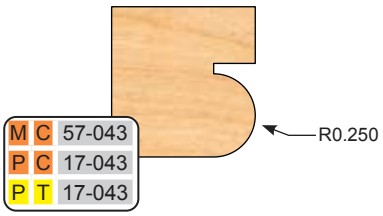
PRO-LINE cutters
- 3 wing
- 1-1/4" bore
- 4" diameter

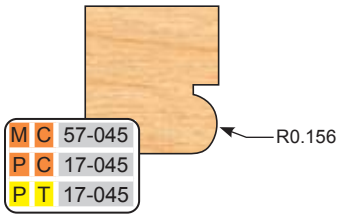


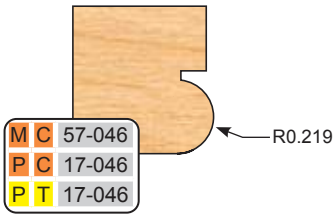






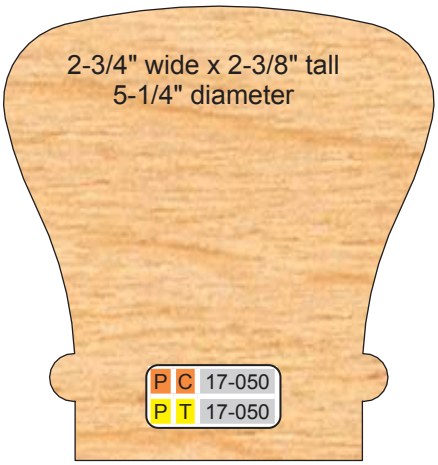


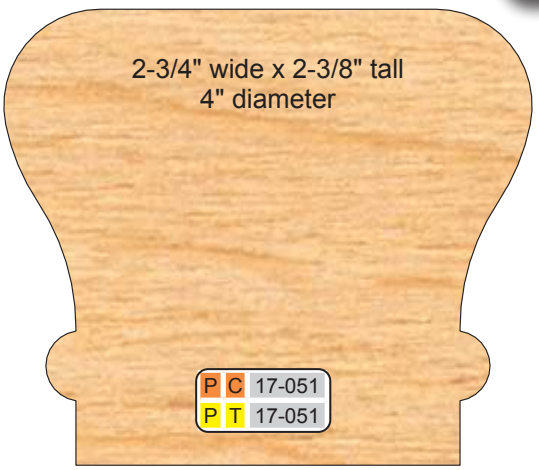




HANDRAIL CUTTERS (2 PIECE SET)

PRO-LINE cutters
- 3 wing
- 1-1/4" bore



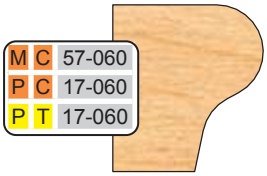


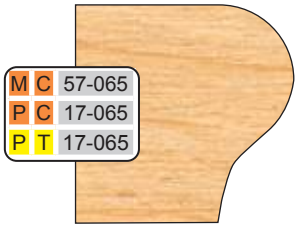
WINDOW SILL CUTTERS

MINI-PRO cutters
- 3 wing • 2-15/16" diameter
- 3/4" bore

PRO-LINE cutters
- 3 wing • 4" diameter
- 1-1/4" bore

Edge Detail cutter for up to 7/8" material as shown





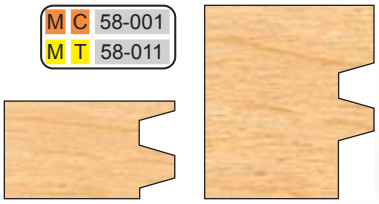
Edge Detail cutter for up to 1-1/8" material

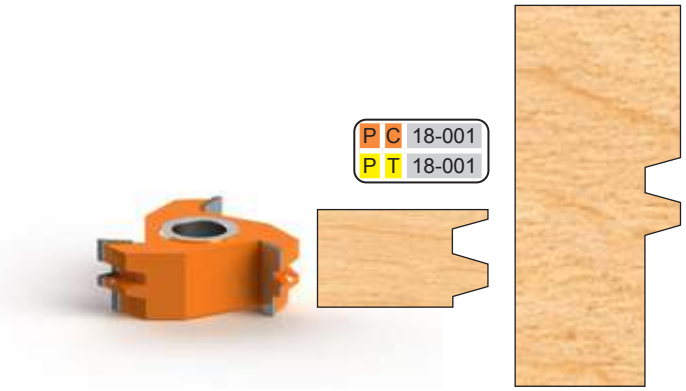
REVERSIBLE GLUE JOINT

MINI-PRO cutters
• 3 wing • 2-15/16" diameter
• 3/4" bore • 1" wide tips
Cuts from 1/2" to 7/8" material

PRO-LINE cutters
• 3 wing • 2-15/16" diameter
• 1-1/4" bore • 2" wide tips
Cuts from 1/2" to 1-7/8" material

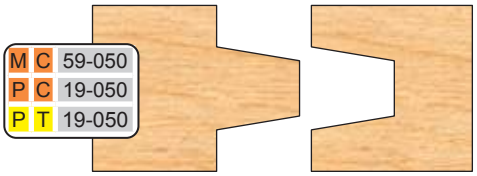
Creates an incredibly strong joint by interlocking the glue surfaces.





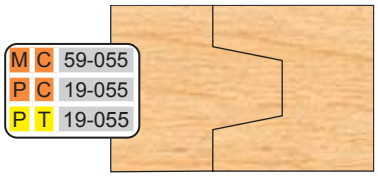
WEDGE TONGUE & GROOVE

10 Piece Set
(4 Cutters and 6 Spacers)



• 3 wing
For up to 1" material

2 Piece Set

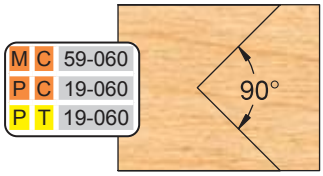


• 3 wing
For up to 1" material

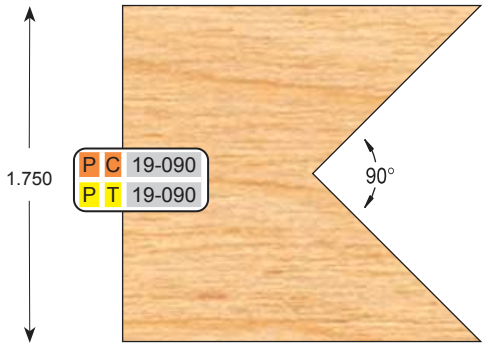
EDGE BANDING

3 Piece Set
1 piece solid cutters for female cut
2 pieces split for male cut

3 Piece Set



V – GROOVE DETAIL CUTTER



• 3 wing
• 5-1/4" diameter
• 2" tips

V-PANELING SHAPER CUTTER SET

MINI-PRO cutters
- 3 wing • 2-15/16" diameter
- 3/4" bore • designed to run with 2-3/16" diameter rub bearing

PRO-LINE cutters
- 3 wing • 4" diameter
- 1-1/4" bore • designed to run with 3-1/4" diameter rub bearing

The V-Paneling set consists of 5 cutters and 1 spacer to perform these 4 functions.

Counterclockwise rotation with wood fed face down.

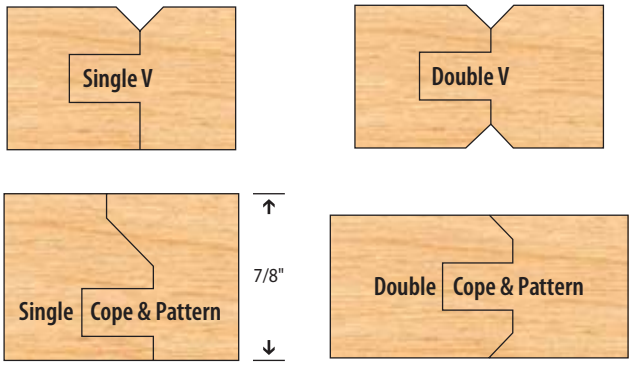
These sets do not share a common minor diameter.

*To order **custom profiles**, see our Custom Made Tooling page in the back of the catalog. Same day quoting. Wood samples shown actual size.*

See stacking instructions on page 42.

M C	59-010
P C	19-010
P T	19-010

3/4" to 1" material



Optional Rub-Spacers & Groovers for Cope Side

NEW	MINI-PRO SET		PRO-LINE SET	
	RUB SPACER	GROOVER	RUB SPACER	GROOVER
SINGLE-V	AM-50-809		AM-10-809	PC-19-011
				PT-19-011
DOUBLE-V	AM-50-809		AM-10-809	PC-19-011
				PT-19-011
DOUBLE COPE & PATTERN	AM-50-801	MC-59-012	AM-10-801	PC-19-012
				PT-19-012
SINGLE COPE & PATTERN	AM-50-801	MC-59-012	AM-10-801	PC-19-012
				PT-19-012

7-PC. FLOORING SET

MINI-PRO cutters
- 3 wing • 2-15/16" diameter
- 3/4" bore

PRO-LINE cutters
- 3 wing • 4" diameter
- 1-1/4" bore

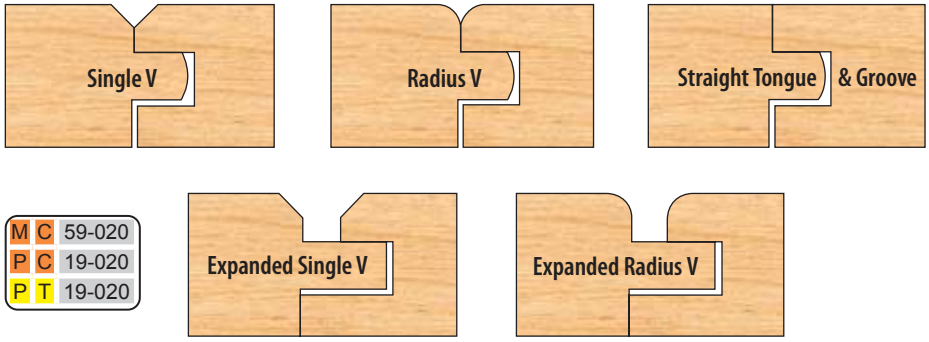
The flooring set consists of 6 cutters and 1 spacer to perform these 5 functions.

Cut provides a loose fit (.030) for wood expansion. Set up instructions included.

Counterclockwise rotation with wood fed face down.

See stacking instructions on page 42.

3/4" to 1" material



M C	59-020
P C	19-020
P T	19-020

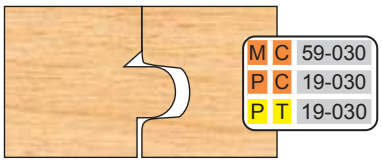
5-PC. FLOORING SET WITH NAIL SLOT

MINI-PRO cutters
- 3 wing • 2-15/16" diameter
- 3/4" bore

PRO-LINE cutters
- 3 wing • 4" diameter
- 1-1/4" bore

This set includes 5 cutters to perform the cut as shown.

Counterclockwise rotation with wood fed face down.
Up to 1" material.



M C	59-030
P C	19-030
P T	19-030

8-PC. FLOORING / V-PANEL SET

MINI-PRO cutters
- 3 wing • 2-15/16" diameter
- 3/4" bore

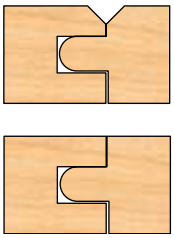
PRO-LINE cutters
- 3 wing • 4" diameter
- 1-1/4" bore

This set includes 8 cutters to perform the two cuts as shown. Runs CCW, face down.

Cut provides a 0.010" loose fit to allow for wood expansion.

1/2" material

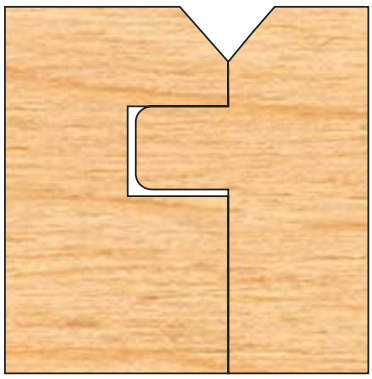
M C	59-040
P C	19-040
P T	19-040



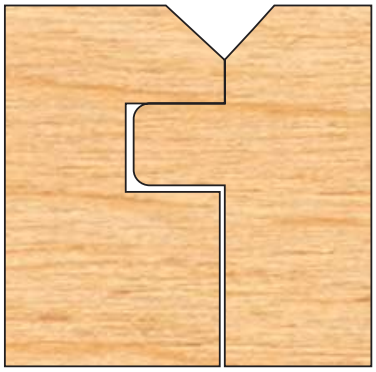
V PANEL SET FOR 2" MATERIAL

PRODUCT ORDER CODE

M C	00-000	M - MINI-PRO (3/4" Bore)
P C	00-000	P - PRO-LINE (1-1/4" Bore)
P T	00-000	C - Carbide Tip (Orange)
		T - T-Alloy Tip (Yellow)

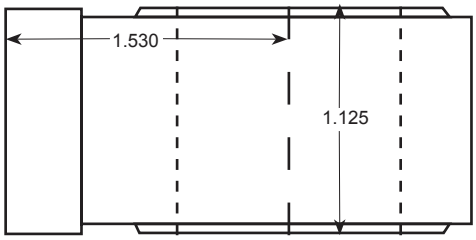


P C 19-070
P T 19-070



0.030 GAP
for P-19-070 exchange
for P-19-075 at time of
purchase

The P-19-075 Groover may be exchanged at time of purchase for no charge



P C 19-075
P T 19-075

QUARTER COVE CONVEX CUTTERS

MINI-PRO cutters
- 3 wing • 2-15/16" diameter
- 3/4" bore

PRO-LINE cutters
- 3 wing • 4" diameter
- 1-1/4" bore

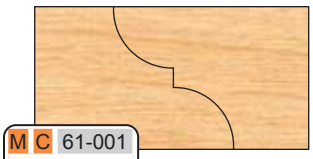
PART #			RADIUS
MC-60-002	PC-20-002	PT-20-002	1/8"
MC-60-004	PC-20-004	PT-20-004	1/4"
MC-60-006	PC-20-006	PT-20-006	3/8"
MC-60-008	PC-20-008	PT-20-008	1/2"
MC-60-012	PC-20-012	PT-20-008	3/4"
	PC-20-016	PT-20-016	1"

REVERSIBLE PATTERN DETAIL

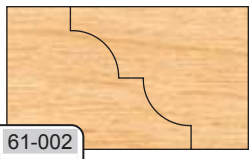
MINI-PRO cutters
- 3 wing • 2-15/16" diameter
- 3/4" bore • 1" wide tips

PRO-LINE cutters
- 3 wing • 4" diameter
- 1-1/4" bore • 1" wide tips

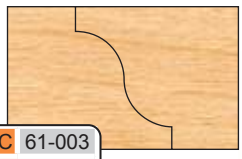
Counterclockwise rotation with wood fed face up.



M C 61-001
P C 21-001
P T 21-001



M C 61-002
P C 21-002
P T 21-002



M C 61-003
P C 21-003
P T 21-003

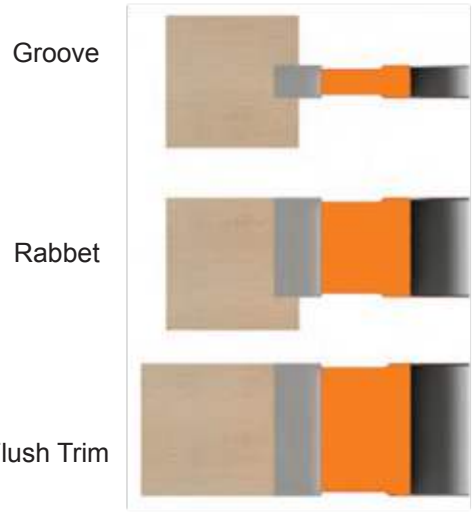
After machining two pieces of wood, one piece may be inverted and plugged into its mate, forming a matched joint.

STRAIGHT TOP GROOVERS

MINI-PRO cutters
• 3 wing • 2-15/16" diameter
• 3/4" bore • designed for use with 2-15/16" diameter rub bearing for flush trim application

PRO-LINE cutters
• 3 wing • 4" diameter
• 1-1/4" bore • designed for use with 4" diameter rub bearing for flush trim application

PART #			WIDTH
MC-62-002	PC-22-002	PT-22-002	1/8"
MC-62-003	PC-22-003	PT-22-003	3/16"
MC-62-004	PC-22-004	PT-22-004	1/4"
MC-62-005	PC-22-005	PT-22-005	5/16"
MC-62-006	PC-22-006	PT-22-006	3/8"
MC-62-007	PC-22-007	PT-22-007	7/16"
MC-62-008	PC-22-008	PT-22-008	1/2"
MC-62-010	PC-22-010	PT-22-010	5/8"
MC-62-012	PC-22-012	PT-22-012	3/4"
MC-62-014	PC-22-014	PT-22-014	7/8"
MC-62-016	PC-22-016	PT-22-016	1"
MC-62-020	PC-22-020	PT-22-020	1-1/4"
MC-62-024	PC-22-024	PT-22-024	1-1/2"
MC-62-028	PC-22-028	PT-22-028	1-3/4"
MC-62-032	PC-22-032	PT-22-032	2"



Straight Top Groovers are ideal for cutting grooves, rabbets, and for flush trimming.

STRAIGHT TOP GROOVERS

PRO-LINE cutters
• 6-12 wing
• 1-1/4" bore only
• 4-8" diameter per chart

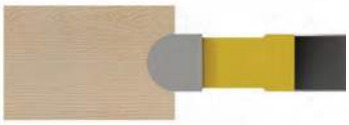
PART #	DIAMETER	WINGS	KERF
GC-0406-.250	4"	6	1/4"
GC-0406-.375	4"	6	3/8"
GC-0406-.500	4"	6	1/2"
GC-0406-.750	4"	6	3/4"
GC-0608-.250	6"	8	1/4"
GC-0608-.375	6"	8	3/8"
GC-0608.500	6"	8	1/2"
GC-0608-.750	6"	8	3/4"
GC-0812-.250	8"	12	1/4"
GC-0812-.375	8"	12	3/8"
GC-0812-.500	8"	12	1/2"
GC-0812-.750	8"	12	3/4"

HALF ROUND CONVEX SHAPER CUTTERS

MINI-PRO cutters
- 3 wing • 2-15/16" diameter
- 3/4" bore

PRO-LINE cutters
- 3 wing • 4" diameter
- 1-1/4" bore

PART #			WIDTH	RADIUS
MC-63-002	PC-23-002	PT-23-002	1/4"	1/8"
MC-63-003	PC-23-003	PT-23-003	3/8"	3/16"
MC-63-004	PC-23-004	PT-23-004	1/2"	1/4"
MC-63-006	PC-23-006	PT-23-006	3/4"	3/8"
MC-63-008	PC-23-008	PT-23-008	1"	1/2"



Flute

HALF ROUND CONCAVE SHAPER CUTTERS

MINI-PRO cutters
- 3 wing • 2-15/16" diameter
- 3/4" bore

PRO-LINE cutters
- 3 wing • 4" diameter
- 1-1/4" bore

PART #			WIDTH	RADIUS
MC-64-002	PC-24-002	PT-24-002	1/4"	1/8"
MC-64-003	PC-24-003	PT-24-003	3/8"	3/16"
MC-64-004	PC-24-004	PT-24-004	1/2"	1/4"
MC-64-006	PC-24-006	PT-24-006	3/4"	3/8"
MC-64-008	PC-24-008	PT-24-008	1"	1/2"
MC-64-009	PC-24-009	PT-24-009	1-1/8"	9/16"
MC-64-010	PC-24-010	PT-24-010	1-1/4"	5/8"
	PC-24-012	PT-24-012	1-1/2"	3/4"

Bullnose

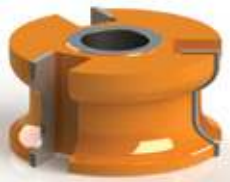
All Concave Cutters have .030" flare for easy bull nosing.

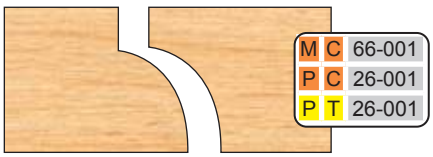
MATCHED DROP LEAF

MINI-PRO cutters
- 3 wing • 2-15/16" diameter
- 3/4" bore

PRO-LINE cutters
- 3 wing • 4" diameter
- 1-1/4" bore

Counterclockwise rotation with wood face down. When running counterclockwise, cove cut is made by lowering shaper spindle to cut with the top half of the cutter. Bead cut is made by raising shaper spindle to cut with the bottom half of the cutter.

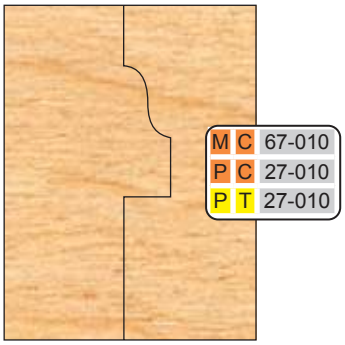




WINDOW SASH CUTTER SET (4 PIECE CUTTER SET)

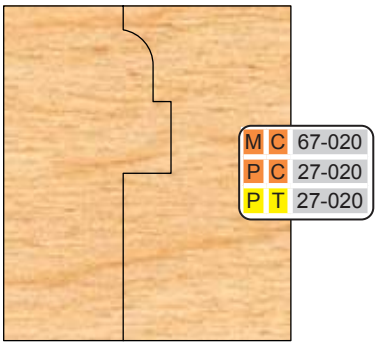
MINI-PRO cutters
- 3 wing
- 3/4" bore

PRO-LINE cutters
- 3 wing
- 1-1/4" bore



These window sash profiles are common in many older homes. They are made to cut stock up to 1-3/4".

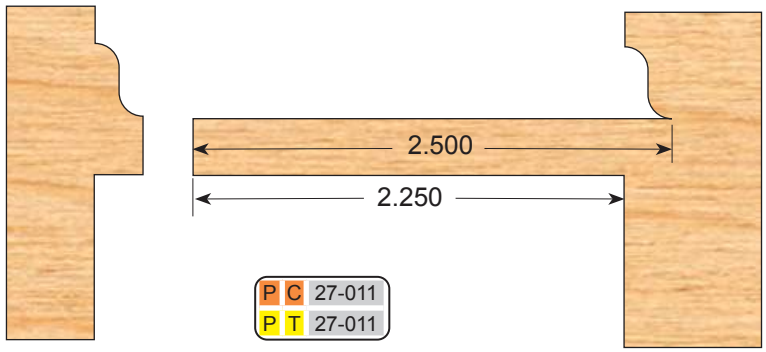
Counterclockwise rotation with wood fed face down.

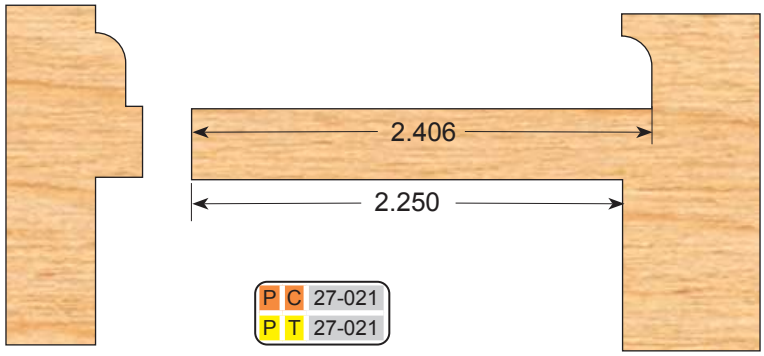


WINDOW SASH CUTTER SET FOR MORTISE AND TENON (5 PIECE SET)

PRO-LINE cutters
- 3 wing
- 1-1/4" bore only

This Window set is designed to allow a variable tenon length of up to 2-1/2"
(4 Cutters, 1 Spacer per set)





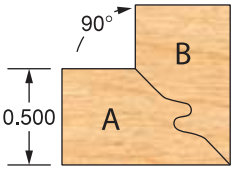
ONE PIECE DOUBLE TONGUE & GROOVE LOCK MITRE CUTTER

Counterclockwise rotation only. Mini-Pro is made to run only on 3/4" spindle.

Part B is run flat in horizontal position on shaper table.

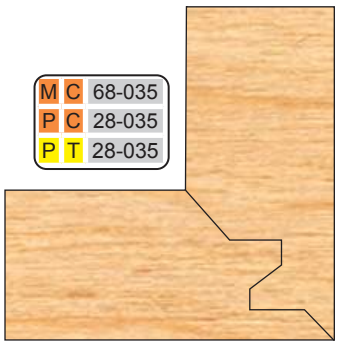
Part A is run in a vertical position against the shaper fence (see diagram). See page 28.

1/2" material



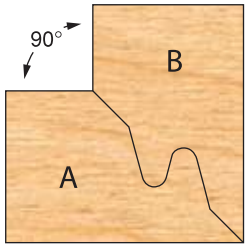
MC	68-030
PC	28-030
PT	28-030

3/4" to 1" material



MC	68-035
PC	28-035
PT	28-035

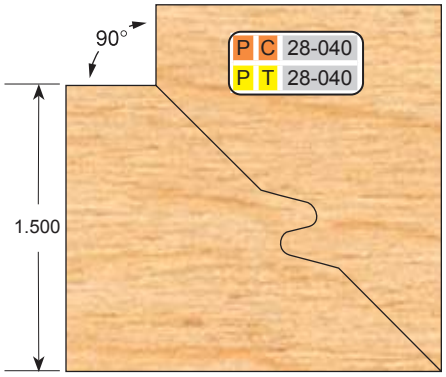
3/4" to 1" material



MC	68-001
PC	28-001
PT	28-001

3/4" to 1-1/2" material

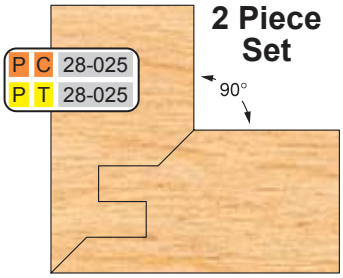
PRO-LINE cutters
- 1-1/4" bore • 6" diameter
- 3 wing • 1-3/4" wide tips



PC	28-040
PT	28-040

TWO PIECE DOUBLE TONGUE & GROOVE LOCK MITRE SETS

2 Piece Set

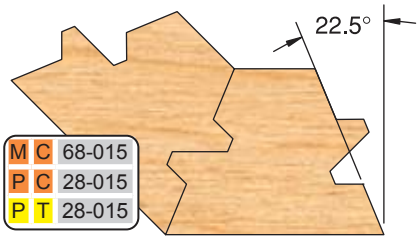


PC	28-025
PT	28-025

3/4" - 1" material

PRO-LINE cutters
- 3 wing
- 1-1/4" bore
- 5.19" diameter
- 1-1/4" wide tips

3/4" material



MC	68-015
PC	28-015
PT	28-015

MINI-PRO cutters
- 3 wing • 3/4" bore
- 2-15/16" diameter
- 1" wide tips

PRO-LINE cutters
- 3 wing • 4" diameter
- 1-1/4" bore
- 1" wide tips

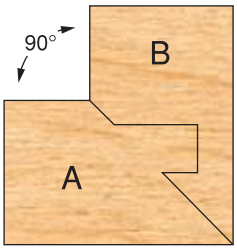
SINGLE TONGUE & GROOVE LOCK MITRE CUTTER (3 PIECE CUTTER SET)

Counterclockwise rotation only. Mini-Pro is made to run only on 3/4" spindle.

Material to 1-1/8".

Part A and B are both run flat in horizontal position on shaper table. Part B is run again on table saw to cut groove (see diagram).

MC	68-020
PC	28-020
PT	28-020



MINI-PRO cutters
- 3 wing • 4-5/16" diameter
- 3/4" bore • Use on 3/4" Spindles only

PRO-LINE cutters
- 3 wing • 5-3/8" diameter
- 1-1/4" bore

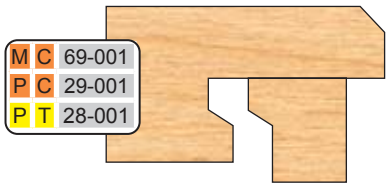
DRAWER LOCK CUTTER

MINI-PRO cutters
- 3 wing • 2-5/16" diameter
- 3/4" bore

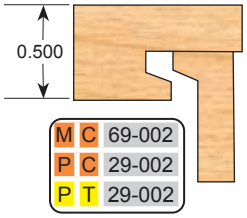
PRO-LINE cutters
- 3 wing • 5" diameter
- 1-1/4" bore

Run drawer front face up in horizontal position over the top of the cutter. Drawer sides are run on end in a vertical position against the shaper fence.

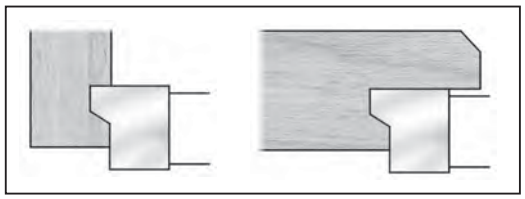
Counterclockwise rotation only.



3/4" material



1/2" material

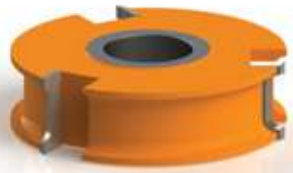


1-PIECE DOUBLE EASING CUTTERS

MINI-PRO cutters
- 3 wing • 2-15/16" diameter
- 3/4" bore

PRO-LINE cutters
- 3 wing • 5" diameter
- 1-1/4" bore

NUMBER			WIDTH	RADIUS
MC-71-006	PC-31-006	PT-31-006	3/8"	1/8"
MC-71-008	PC-31-008	PT-31-008	1/2"	1/8"
MC-71-012	PC-31-012	PT-31-012	3/4"	1/8"
MC-71-016	PC-31-016	PT-31-016	1"	1/8"
MC-71-020	PC-31-020	PT-31-020	1-1/4"	1/8"
MC-71-024	PC-31-024	PT-31-024	1-1/2"	1/8"



Custom rub bearings available for these cutters.

CORNER ROUNDING SHAPER CUTTERS

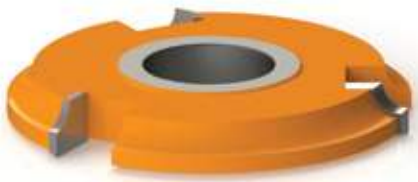
MINI-PRO cutters
- 3 wing • 2-5/16" diameter
- 3/4" bore

PRO-LINE cutters
- 3 wing • 4" diameter or see below
- 1-1/4" bore

Larger PRO-LINE Cutters exceed the standard 4" diameter (see chart).

Counterclockwise rotation with wood fed face down.

R = CCW, wood face up

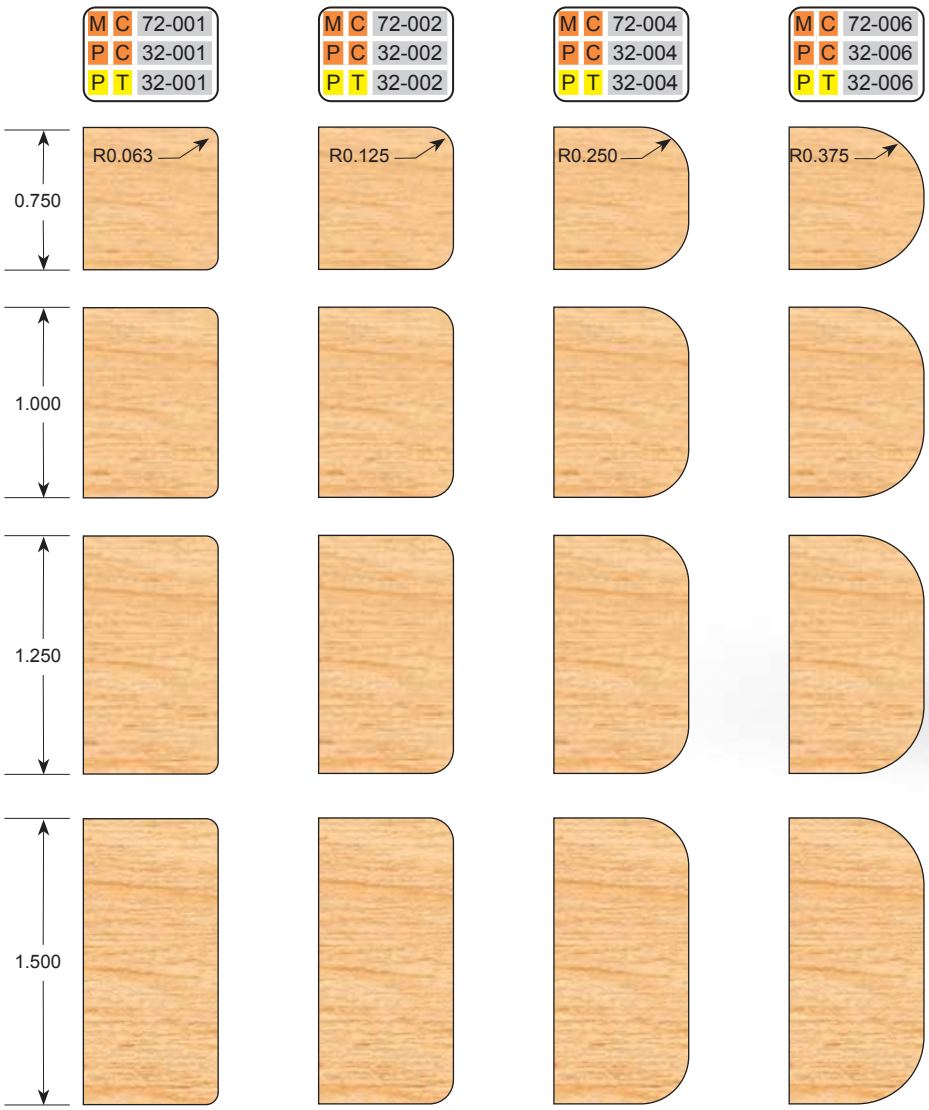


NUMBER	(R=Opposite Rotation)		RADIUS	3/4" Bore DIAMETER	1-1/4" Bore DIAMETER
MC-65-002	PC-25-002	PT-25-002	1/8"	2-15/16"	4"
MC-65-002R	PC-25-002R	PT-25-002R	1/8"	2-15/16"	4"
MC-65-003	PC-25-003	PT-25-003	3/16"	2-15/16"	4"
MC-65-004	PC-25-004	PT-25-004	1/4"	2-15/16"	4"
MC-65-004R	PC-25-004R	PT-25-004R	1/4"	2-15/16"	4"
MC-65-005	PC-25-005	PT-25-005	5/16"	2-15/16"	4"
MC-65-006	PC-25-006	PT-25-006	3/8"	2-15/16"	4"
MC-65-006R	PC-25-006R	PT-25-006R	3/8"	2-15/16"	4"
MC-65-008	PC-25-008	PT-25-008	1/2"	2-15/16"	4"
MC-65-008R	PC-25-008R	PT-25-008R	1/2"	2-15/16"	4"
MC-65-010	PC-25-010	PT-25-010	5/8"	2-15/16"	4"
MC-65-012	PC-25-012	PT-25-012	3/4"	2-15/16"	4"
	PC-25-014	PT-25-014	7/8"	n/a	4-1/2"
	PC-25-016	PT-25-016	1"	n/a	4-1/2"
	PC-25-020	PT-25-020	1-1/4"	n/a	5"
	PC-25-024	PT-25-024	1-1/2"	n/a	5-1/2"
	PC-25-028	PT-25-028	1-3/4"	n/a	6-1/2"
	PC-25-032	PT-25-032	2"	n/a	6-1/2"

4-PIECE EXPANDABLE DOUBLE EASING SET

MINI-PRO cutters
- 3 wing • 2-3/16" minor diameter
- 3/4" bore

PRO-LINE cutters
- 3 wing • 3" minor diameter
- 1-1/4" bore

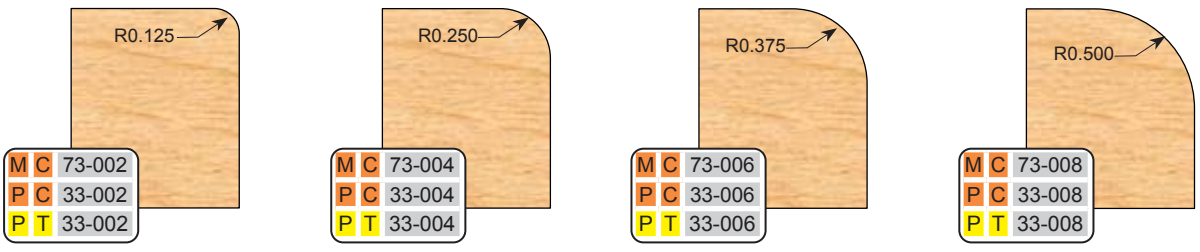


Each set includes 2 cutters and 2 spacers to cut 3/4", 1", 1-1/4" and 1-1/2" material.

EXTENDED CORNER ROUNDS

MINI-PRO cutters
- 3 wing • 2-15/16" diameter
- 3/4" bore

PRO-LINE cutters
- 3 wing • 4" diameter
- 1-1/4" bore

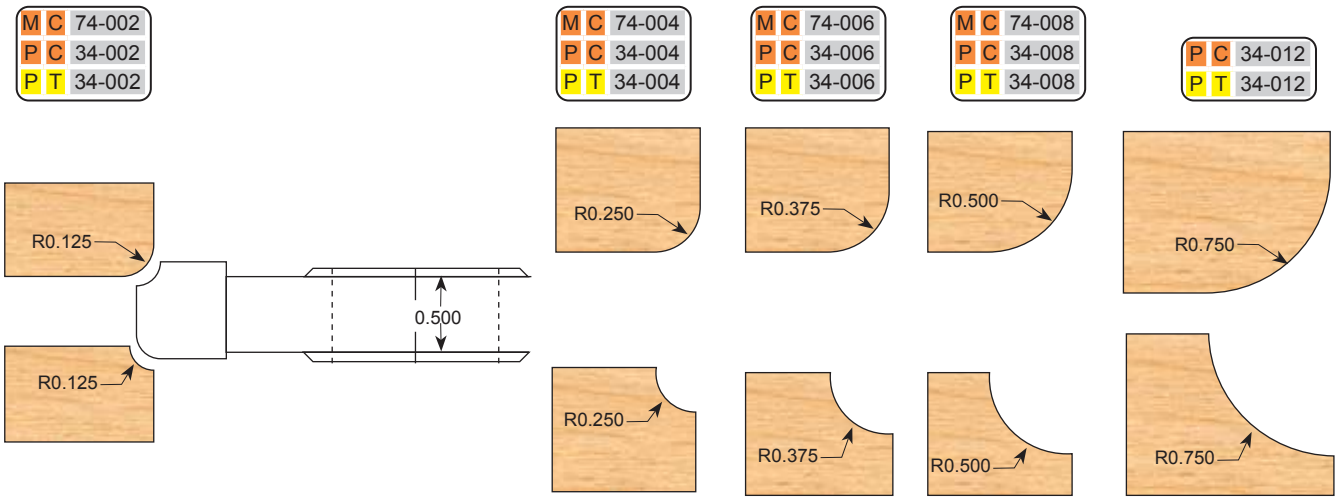


Counterclockwise rotation with face down. For up to 1-1/4" material.

CORNER ROUNDING / COVE COMBO

MINI-PRO cutters
- 3 wing • 2-15/16" diameter
- 3/4" bore

PRO-LINE cutters
- 3 wing • 4 diameter
- 1-1/4" bore



CORNER ROUNDING COMBO

MINI-PRO cutters
- 3 wing
- 3/4" bore

PRO-LINE cutters
- 3 wing
- 1-1/4" bore

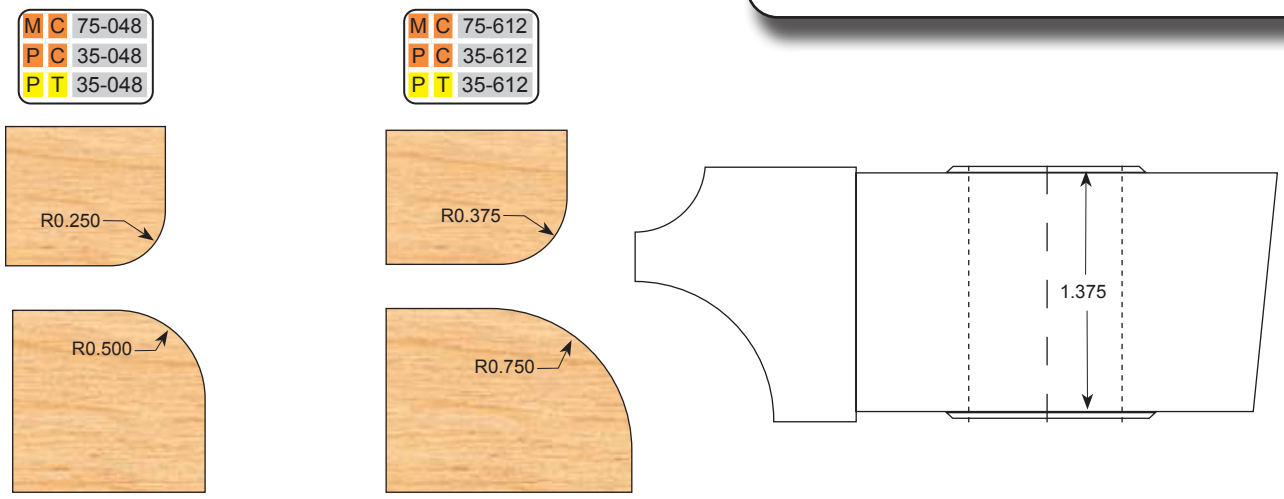
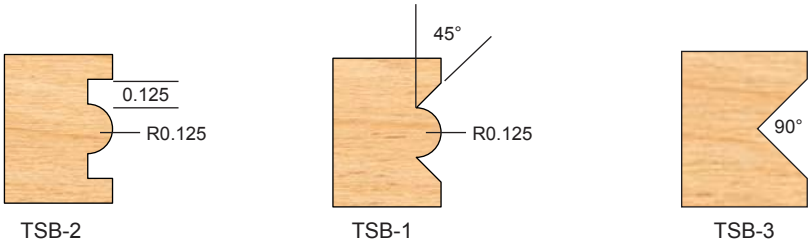


TABLE SAW BEAD CUTTERS

- 6 wing
- 5/8" bore
- 8" diameter



TSB-2 TSB-1 TSB-3

BALL BEARING RUB COLLARS

NUMBER	BORE	DIAM.
AM-90-026	3/4"	1-5/8"
AM-90-027	3/4"	1-11/16"
AM-90-028	3/4"	1-3/4"
AM-90-032	3/4"	2"
AM-90-033	3/4"	2-1/16"
AM-90-035	3/4"	2-3/16"
AM-90-036	3/4"	2-1/4"
AM-90-039	3/4"	2-7/16"
AM-90-040	3/4"	2-1/2"
AM-90-047	3/4"	2-15/16"
AM-90-048	3/4"	3"

NUMBER	BORE	DIAM.
AP-90-036	1-1/4"	2-1/4"
AP-90-040	1-1/4"	2-1/2"
AP-90-044	1-1/4"	2-3/4"
AP-90-048	1-1/4"	3"
AP-90-049	1-1/4"	3-1/16"
AP-90-052	1-1/4"	3-1/4"
AP-90-056	1-1/4"	3-1/2"
AP-90-060	1-1/4"	3-3/4"
AP-90-064	1-1/4"	4"
AP-90-066	1-1/4"	4-1/8"
AP-90-068	1-1/4"	4-1/4"
AP-90-072	1-1/4"	4-1/2"

RUB SPACERS FOR COPE & PATTERN

A M 50-803
A P 10-803
1/4" x 3/8" tongue

A M 50-801
A P 10-801
1/4" x 1/2" tongue

A M 50-806
A P 10-806
5.5 x 3/8" tongue

A M 50-807
A P 10-807
5.5 x 1/2" tongue

Optional rub spacer available for M-50 and P-10 series cope & pattern sets. Replaces center cutter on cope side.

T-BUSHINGS

Choose from

- **Long Style** - for 3 to 6 Cutter Sets. Consists of 1 long and 1 short T-Bushing.
- **Medium Style** - for 2 Piece Sets
- **Short Style** - for Single Cutters. Consists of 2 short T-Bushings.
- **Double Sided** - to run between Cutter and Bearing.

Long Style

NUMBER	I.D.	O.D.
AM-91-008	1/2"	3/4"
AX-91-012	1/2"	1"
AP-91-012	3/4"	1-1/4"
AP-91-016	1"	1-1/4"
AP-91-016 XL*	1"	1-1/4"
AP-91-017	30mm	1-1/4"
AP-91-018	1-1/8"	1-1/4"
AP-91-024	1-1/4"	1-1/2"
AP-91-025	1-1/4"	40mm
AP-91-029	1-1/4"	1-13/16"

Medium Style

NUMBER	I.D.	O.D.
AM-91-008-M	1/2"	3/4"
AP-91-012-M	3/4"	1-1/4"
AP-91-016-M	1"	1-1/4"

Short Style

NUMBER	I.D.	O.D.
AM-92-008	1/2"	3/4"
AX-92-012	1/4"	1"
AP-92-008	1/2"	1-1/4"
AP-92-012	3/4"	1-1/4"
AP-92-016	1"	1-1/4"
AP-92-017	30mm	1-1/4"
AP-92-018	1-1/4"	1-1/4"
AP-92-024	1-1/4"	1-1/2"
AP-92-025	1-1/4"	40mm
AP-92-029	1-1/4"	1-13/16"

Double Sided

NUMBER	I.D.	O.D.
AM-93-008	1/2"	3/4"
AX-93-008	1/2"	1-1/4"
AP-93-012	3/4"	1-1/4"
AP-93-016	1"	1-1/4"
AP-93-018	1-1/8"	1-1/4"
AP-93-024	1-1/4"	1-1/2"
AP-93-025	1-1/4"	40mm
AP-93-029	1-1/4"	1-13/16"

SPACERS AND SHIMS

Spacers - Used in a wide range of woodworking applications.

Spacers

NUMBER	BORE	WIDTH
AM-94-001	3/4"	1/16"
AM-94-002	3/4"	1/8"
AM-94-003	3/4"	3/16"
AM-94-004	3/4"	1/4"
AM-94-005	3/4"	5/16"
AM-94-006	3/4"	3/8"
AM-94-007	3/4"	7/16"
AM-94-008	3/4"	1/2"
AM-94-009	3/4"	9/16"
AM-94-010	3/4"	5/8"
AM-94-012	3/4"	3/4"
AM-94-016	3/4"	1"
AP-94-001	1-1/4"	1/16"
AP-94-002	1-1/4"	1/8"
AP-94-003	1-1/4"	3/16"
AP-94-004	1-1/4"	1/4"
AP-94-005	1-1/4"	5/16"
AP-94-006	1-1/4"	3/8"
AP-94-007	1-1/4"	7/16"
AP-94-008	1-1/4"	1/2"
AP-94-009	1-1/4"	9/16"
AP-94-010	1-1/4"	5/8"
AP-94-012	1-1/4"	3/4"
AP-94-016	1-1/4"	1"

Shims - Sets of 48 color-coded plastic shims for various spacing needs.

Shims

NUMBER	BORE	QTY.	COLOR	THICKNESS	QTY.	COLOR	THICKNESS
AM-95-008	1/2"	6	Green	.003"	6	Black	.0125
AP-94-016	1"	6	Matte	.0075"	6	Yellow	.020
AP-94-018	1-1/8"	6	Brown	.010"	6	Coral	.030

Shims - Sets of 20 metal shims in five thicknesses.

Metal Shims

NUMBER	BORE	QTY.	THICKNESS
AM-95-012-M	3/4"	4	.003"
AP-95-020-M	1-1/4"	4	.005"
		4	.010"
		4	.015"
		4	.020"

Many of our sets may be run in multiple configurations, or require very careful set-ups. Scan the QR code to get additional information.
As always, feel free to call us with any questions.

Setting up a Lock Mitre Set

Cope and Pattern Stacking Instructions

V Panel Stacking Instructions

Flooring Set Stacking Instructions

Shaper Spindle Alignment

All use the same QR Code

Cope and Pattern Trouble Shooting

CUSTOM MADE TOOLING SHEET

CUSTOMER INFORMATION

Contact: _____

Company: _____

Phone: _____

Fax: _____

Email: _____

TOOLING INFORMATION

Tool Type: _____

Bore/Shank: _____

Diameter: _____

Rotation: CCW CW

Tipping: Carbide T-Alloy

Of Wings: _____

MATERIAL INFORMATION

Type: _____

Thickness: _____

Direction:: Face Up Face Down

Additional Info: _____

_____

_____

MATERIAL INFORMATION

Type: _____

Collet/Spindle Size: _____

Keyway: _____

RPM: _____

Feed Rate: _____

Min./Max. Circle: _____

1/4" Squares Please Daw with Dimentions as needed

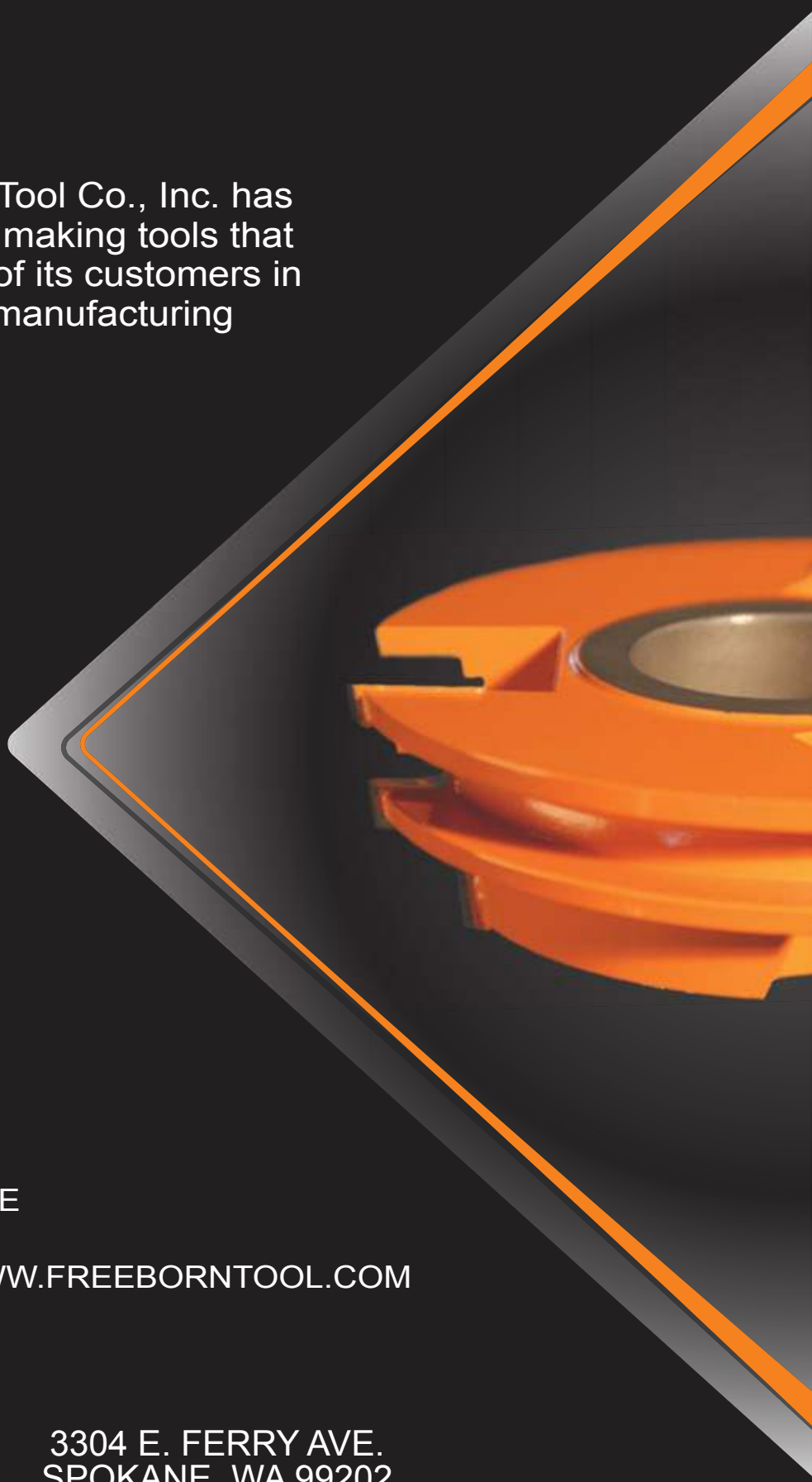
Technical Assistance: Many cutting applications require more than a stock answer. Brazed-T-alloy / Brazed-Carbide / Insert / PCD, multiple wings, shear face, climb cutting, or the use of outboard fences and power feeds. We will assist you in meeting your profiling challenges. An infinite number of shapes and sizes will provide a solution to virtually any job. We invite your inquiries and stand ready to help you with your stock and custom cutter requirements.

Unsurpassed Quality: Our cutters are geometrically precise to the highest standards. We use the latest in 5 axis CNC equipment Coupled with high powered comparators, this equipment has proven to consistently meet our own strict tolerances in manufacturing.

Fast Delivery: Quick turnaround and delivery are essential. Fax or email your dimensional drawings to us and we will immediately process your order.

Ease of Reordering: Every custom-made cutter is given careful attention. Each is assigned its own drawing number which is filed for easy reordering reference. The assigned drawing number allows us to quickly duplicate the exact profile to your original specifications.

Since 1975, Freeborn Tool Co., Inc. has maintained a focus on making tools that perfectly fit the needs of its customers in the woodworking and manufacturing industries.



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