

BRAZED TOOLING

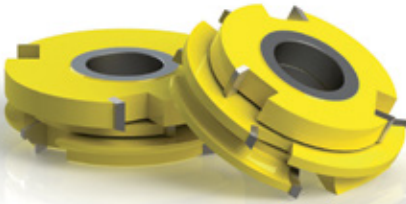
COPE & PATTERN (6 Piece Cutter Sets)

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 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.

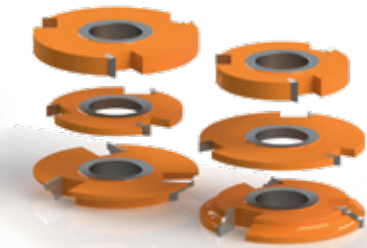


For **opposite rotation**, add 20% to the suggested list price.

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.

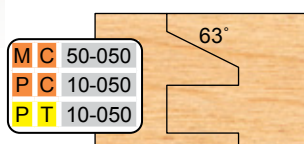
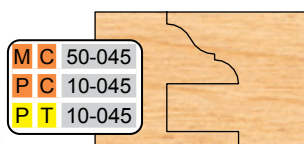
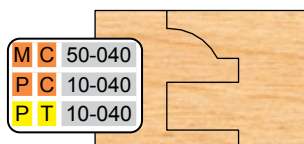
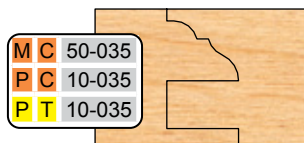
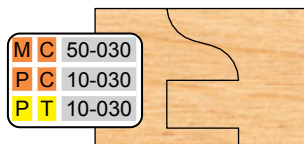
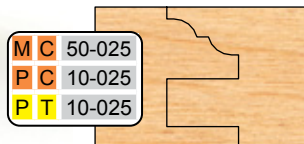
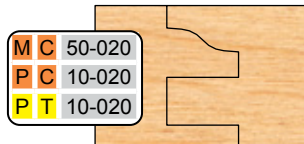
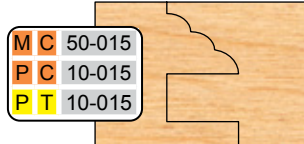
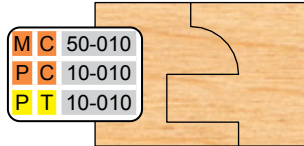
MINI-PRO cutters

- 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

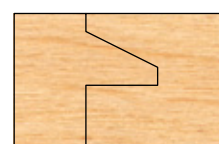
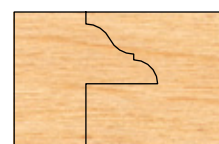
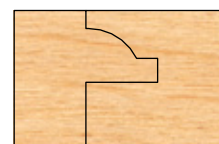
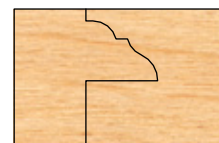
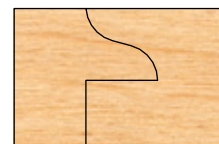
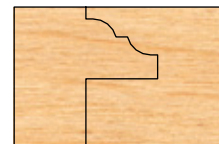
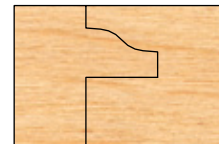
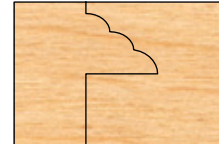
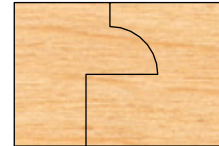
PRO-LINE cutters

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

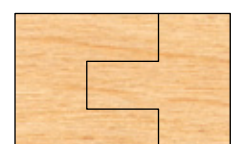
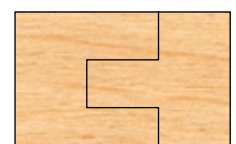
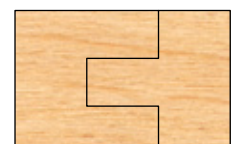
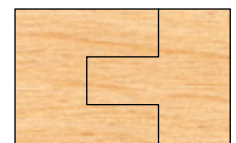
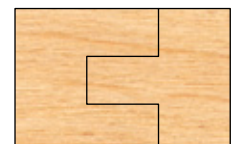
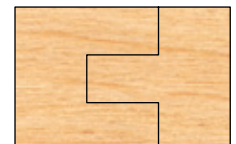
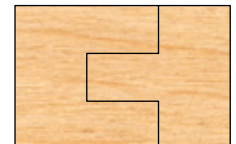
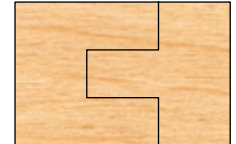
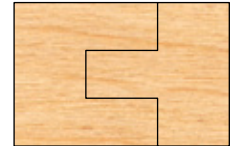
Cope & Pattern 3/4" to 1-1/8" material



Glass Panel 3/4" to 7/8" material



Tongue & Groove 3/4" material



COPE & PATTERN (6 Piece Cutter Sets)

PRODUCT ORDER CODE

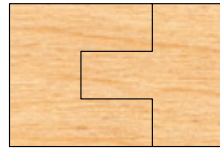
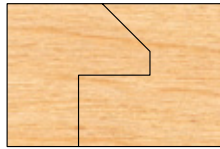
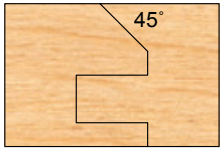
M	C	00-000
P	C	00-000
P	T	00-000

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

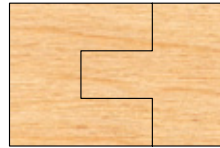
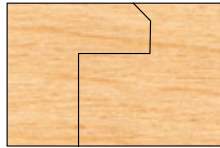
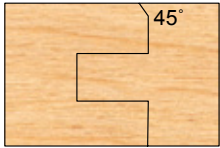
Cope & Pattern
3/4" to 1-1/8" material

Glass Panel
3/4" to 7/8" material

Tongue & Groove
3/4" material

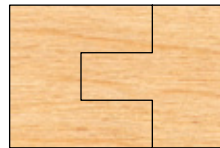
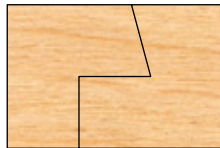
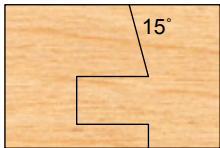


M	C	50-055
P	C	10-055
P	T	10-055



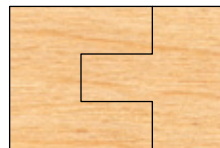
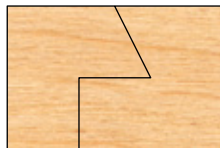
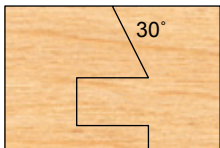
M	C	50-058
P	C	10-058
P	T	10-058

See stacking instructions on page 42.



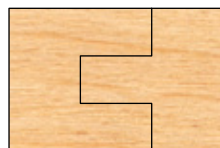
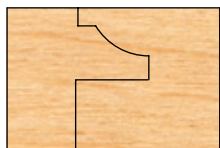
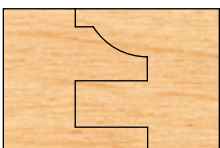
M	C	50-060
P	C	10-060
P	T	10-060

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



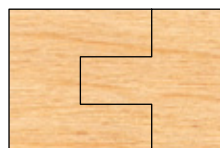
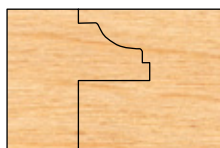
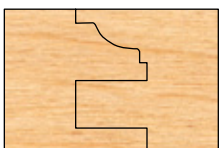
M	C	50-065
P	C	10-065
P	T	10-065

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



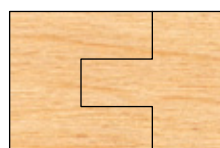
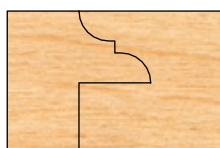
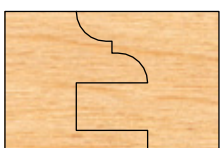
M	C	50-070
P	C	10-070
P	T	10-070

Wood samples shown actual size.

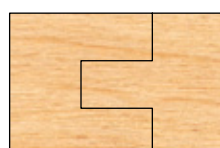
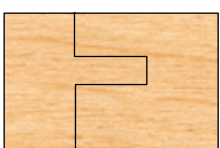
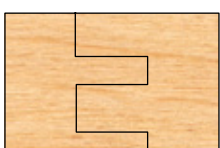


M	C	50-075
P	C	10-075
P	T	10-075

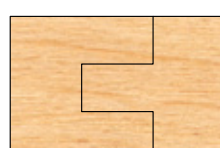
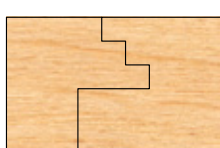
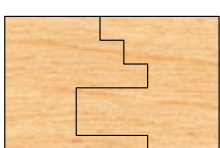
For eased edges add 20% to the suggested list price.



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

COPE & PATTERN (6 Piece Cutter Sets)

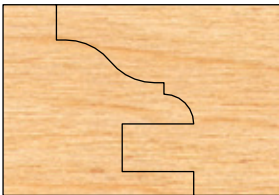
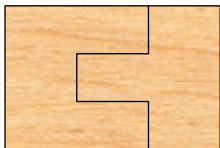
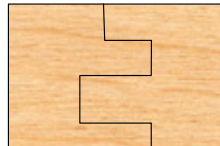
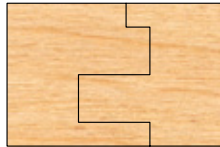
MINI-PRO cutters

- 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

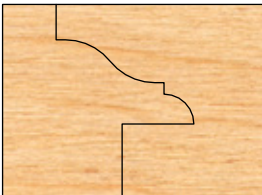
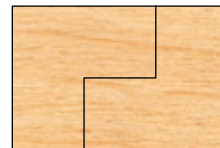
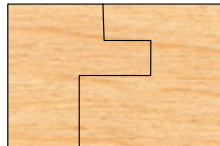
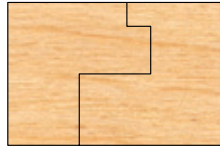
PRO-LINE cutters

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

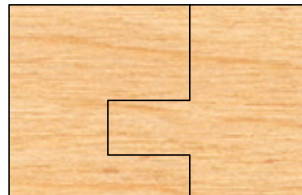
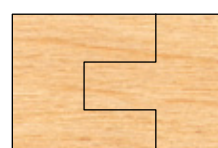
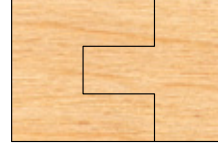
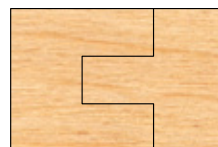
Cope & Pattern
3/4" to 1-1/8" material



Glass Panel
3/4" to 7/8" material



Tongue & Groove
3/4" material



M C 50-092
P C 10-092
P T 10-092

M C 50-093
P C 10-093
P T 10-093

M C 50-500
P C 10-500
P T 10-500

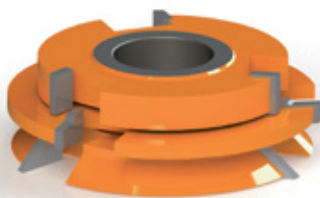
M C 50-145
P C 10-145
P T 10-145

For 1.00" to 1 3/8" material

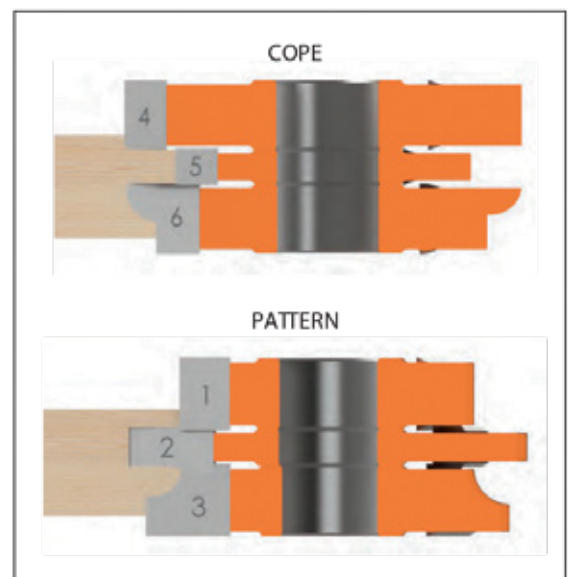
OPTIONAL EASED EDGE SETS

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)

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.

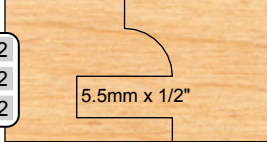
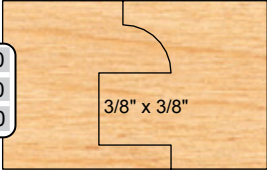
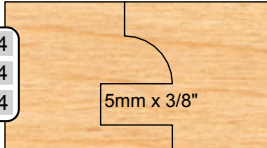
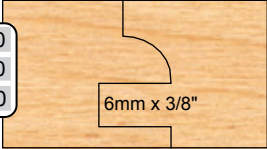
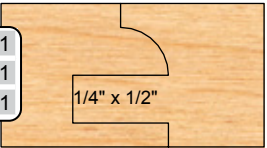
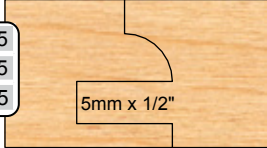
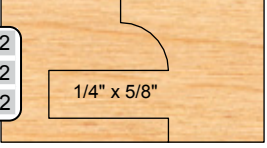
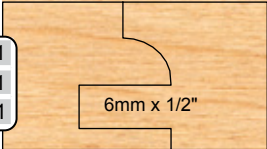
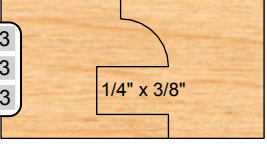
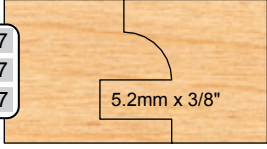
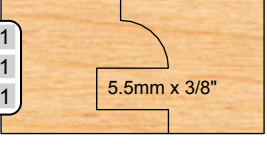
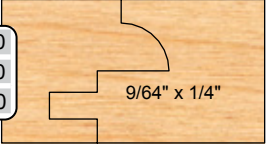
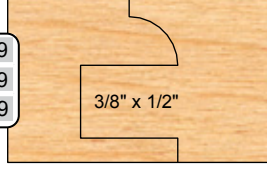
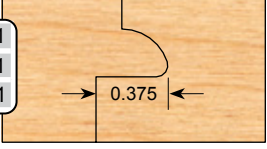
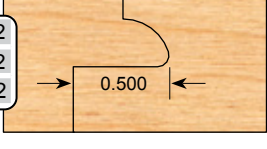
Available on all M-50 and P-10 series cope & patterns.

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

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)

Center Groovers Only - Profile cutters not included

<table border="1"> <tr><td>M</td><td>C</td><td>50-602</td></tr> <tr><td>P</td><td>C</td><td>10-602</td></tr> <tr><td>P</td><td>T</td><td>10-602</td></tr> </table>  <p>5.5mm x 1/2"</p>	M	C	50-602	P	C	10-602	P	T	10-602	<table border="1"> <tr><td>M</td><td>C</td><td>50-610</td></tr> <tr><td>P</td><td>C</td><td>10-610</td></tr> <tr><td>P</td><td>T</td><td>10-610</td></tr> </table>  <p>3/8" x 3/8"</p>	M	C	50-610	P	C	10-610	P	T	10-610
M	C	50-602																	
P	C	10-602																	
P	T	10-602																	
M	C	50-610																	
P	C	10-610																	
P	T	10-610																	
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M	C	50-604																	
P	C	10-604																	
P	T	10-604																	
M	C	50-640																	
P	C	10-640																	
P	T	10-640																	
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M	C	50-501																	
P	C	10-501																	
P	T	10-501																	
M	C	50-605																	
P	C	10-605																	
P	T	10-605																	
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M	C	50-502																	
P	C	10-502																	
P	T	10-502																	
M	C	50-641																	
P	C	10-641																	
P	T	10-641																	
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M	C	50-503																	
P	C	10-503																	
P	T	10-503																	
M	C	50-607																	
P	C	10-607																	
P	T	10-607																	
<table border="1"> <tr><td>M</td><td>C</td><td>50-601</td></tr> <tr><td>P</td><td>C</td><td>10-601</td></tr> <tr><td>P</td><td>T</td><td>10-601</td></tr> </table>  <p>5.5mm x 3/8"</p>	M	C	50-601	P	C	10-601	P	T	10-601	<table border="1"> <tr><td>M</td><td>C</td><td>50-700</td></tr> <tr><td>P</td><td>C</td><td>10-700</td></tr> <tr><td>P</td><td>T</td><td>10-700</td></tr> </table> <p>Glass option (for rubber extrusion)</p>  <p>9/64" x 1/4"</p>	M	C	50-700	P	C	10-700	P	T	10-700
M	C	50-601																	
P	C	10-601																	
P	T	10-601																	
M	C	50-700																	
P	C	10-700																	
P	T	10-700																	
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M	C	50-609																	
P	C	10-609																	
P	T	10-609																	
M	C	50-701																	
P	C	10-701																	
P	T	10-701																	
	<table border="1"> <tr><td>M</td><td>C</td><td>50-702</td></tr> <tr><td>P</td><td>C</td><td>10-702</td></tr> <tr><td>P</td><td>T</td><td>10-702</td></tr> </table> <p>Eased Edge Glass Groover Pattern Side Groover only</p>  <p>0.500</p>	M	C	50-702	P	C	10-702	P	T	10-702									
M	C	50-702																	
P	C	10-702																	
P	T	10-702																	

SPLIT 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	<table border="1"> <tr><td>M</td><td>C</td><td>50-403</td></tr> <tr><td>P</td><td>C</td><td>10-403</td></tr> <tr><td>P</td><td>T</td><td>10-403</td></tr> </table>	M	C	50-403	P	C	10-403	P	T	10-403	<table border="1"> <tr><td>M</td><td>C</td><td>50-403</td><td>E</td><td>E</td></tr> <tr><td>P</td><td>C</td><td>10-403</td><td>E</td><td>E</td></tr> <tr><td>P</td><td>T</td><td>10-403</td><td>E</td><td>E</td></tr> </table>	M	C	50-403	E	E	P	C	10-403	E	E	P	T	10-403	E	E
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	<table border="1"> <tr><td>M</td><td>C</td><td>50-401</td></tr> <tr><td>P</td><td>C</td><td>10-401</td></tr> <tr><td>P</td><td>T</td><td>10-401</td></tr> </table>	M	C	50-401	P	C	10-401	P	T	10-401	<table border="1"> <tr><td>M</td><td>C</td><td>50-401</td><td>E</td><td>E</td></tr> <tr><td>P</td><td>C</td><td>10-401</td><td>E</td><td>E</td></tr> <tr><td>P</td><td>T</td><td>10-401</td><td>E</td><td>E</td></tr> </table>	M	C	50-401	E	E	P	C	10-401	E	E	P	T	10-401	E	E
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																						



COPE & PATTERN (6 Piece Cutter Sets)

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

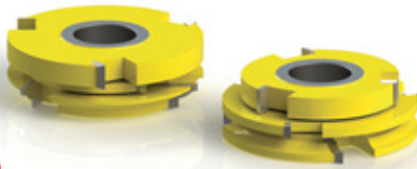
Deeper Profile Sets

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.

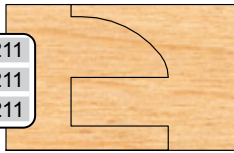
Our common minor diameter requires NO fence adjustment when changing from cope to pattern cuts. (1/2" tongue only)

Counterclockwise rotation with wood fed face down.

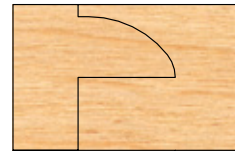


Cope & Pattern
3/4" to 1-1/8" material

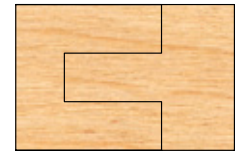
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P C 10-211
P T 10-211



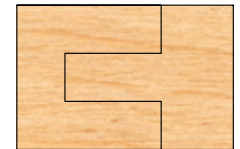
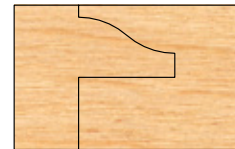
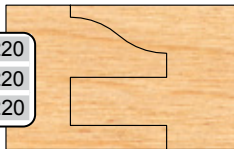
Glass Panel
3/4" to 7/8" material



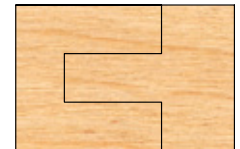
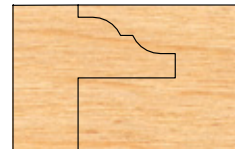
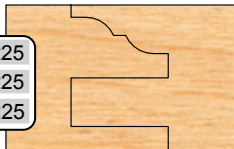
Tongue & Groove
3/4" material



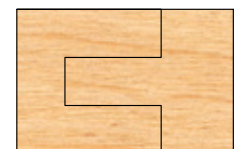
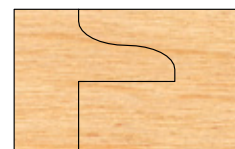
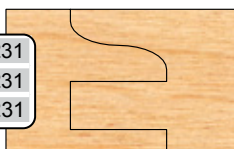
M C 50-220
P C 10-220
P T 10-220



M C 50-225
P C 10-225
P T 10-225



M C 50-231
P C 10-231
P T 10-231



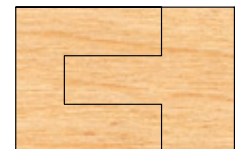
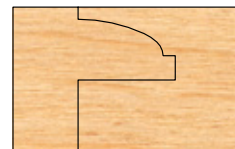
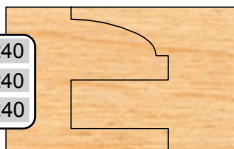
For opposite rotation add 20% to the suggested list price.

Wood samples shown actual size.

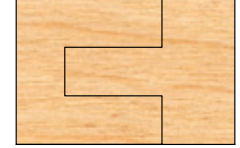
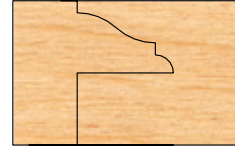
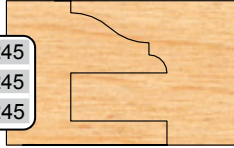
For eased edges add 20% to the suggested list price.

See page 13 for eased edge information

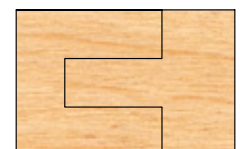
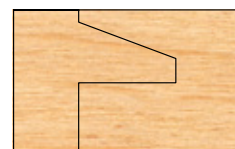
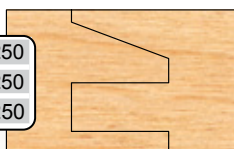
M C 50-240
P C 10-240
P T 10-240



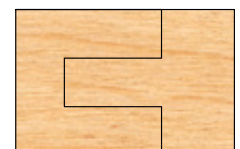
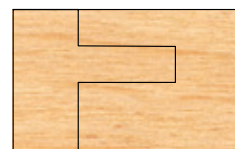
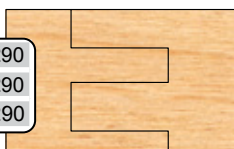
M C 50-245
P C 10-245
P T 10-245



M C 50-250
P C 10-250
P T 10-250



M C 50-290
P C 10-290
P T 10-290



See page 16 for Tongue and Groove options

CENTER GROOVER SETS (2 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)

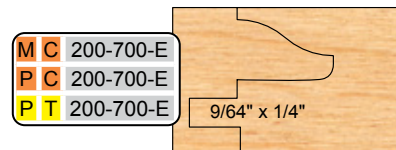
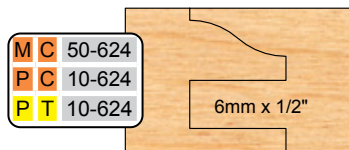
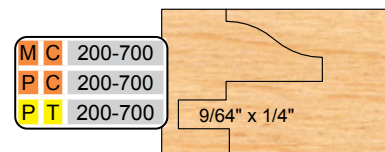
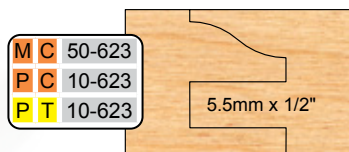
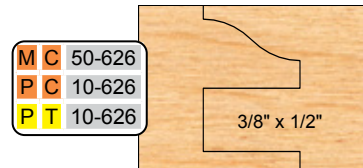
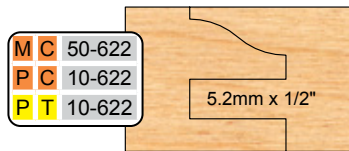
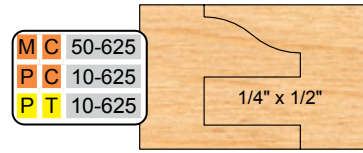
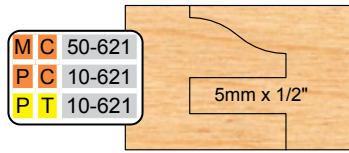
For 1/2" DEPTH OF PROFILE SETS (page 15)

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

Center Groovers Only - Profile cutters not included



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



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)

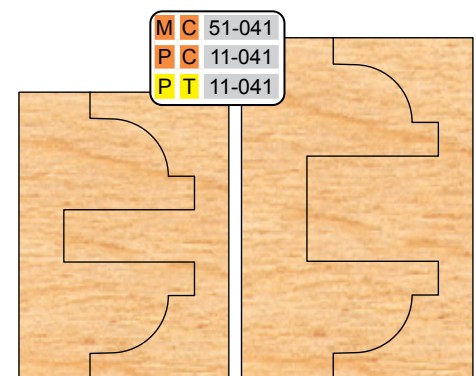
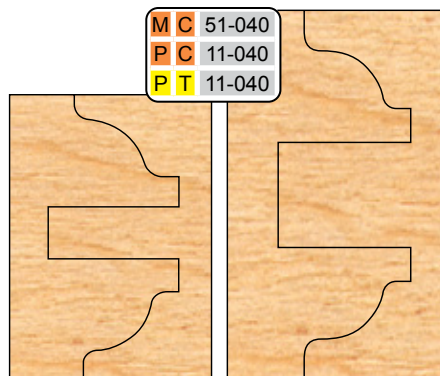
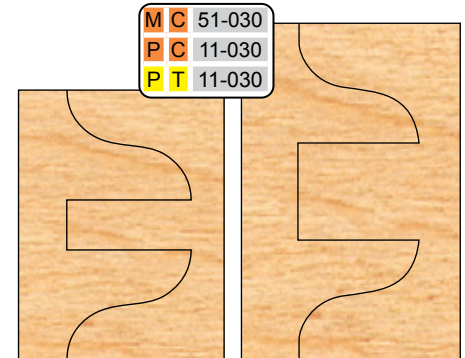
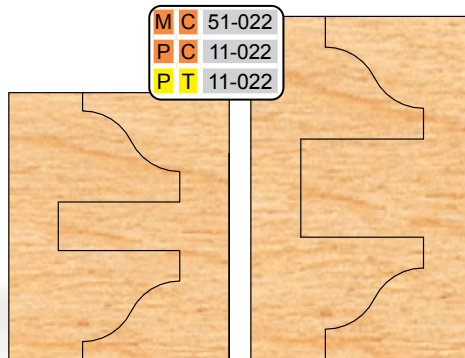
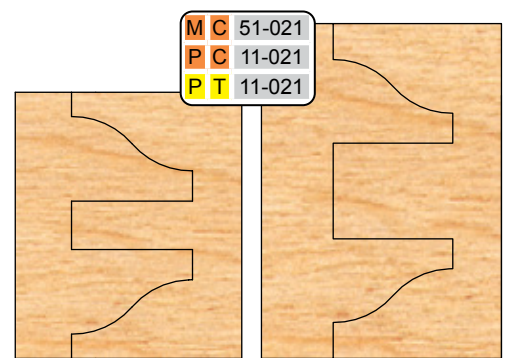
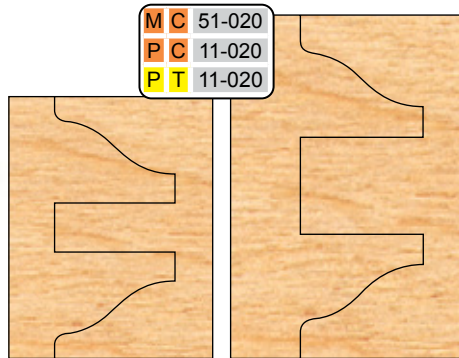
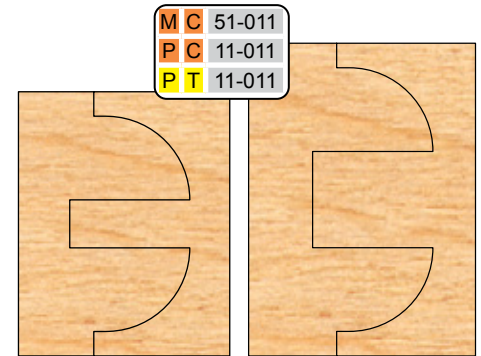
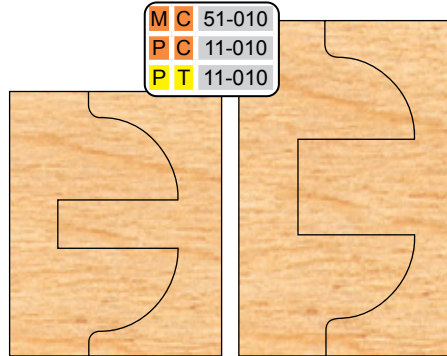
PRO-LINE cutters

- 3 wing • 4" diameter
- 1-1/4" bore • Runs with a 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.

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	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)

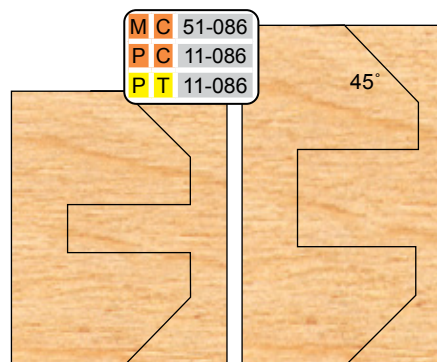
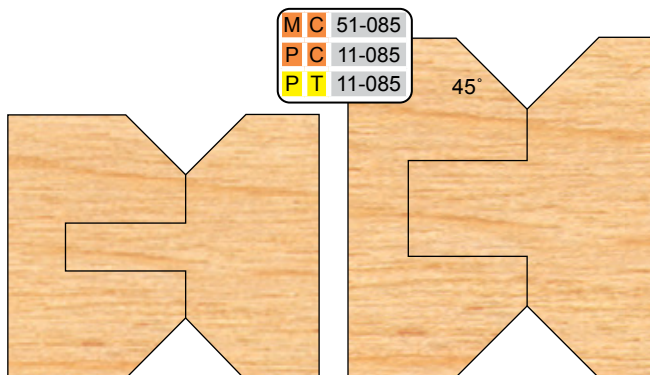
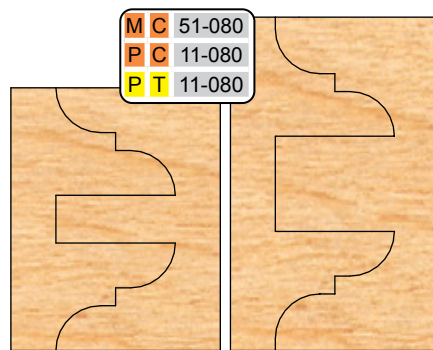
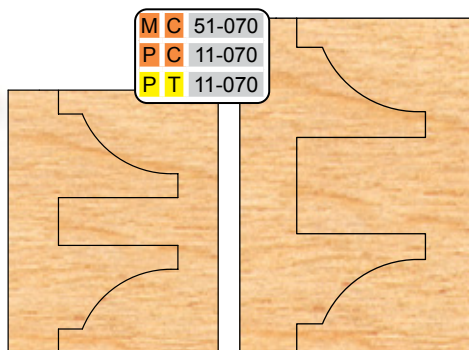
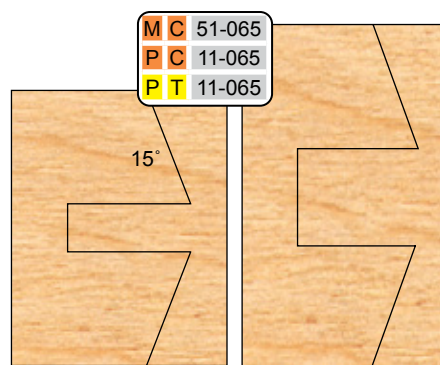
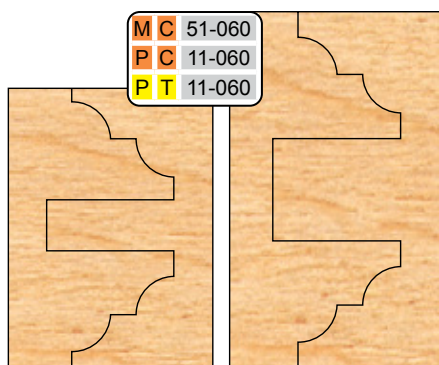
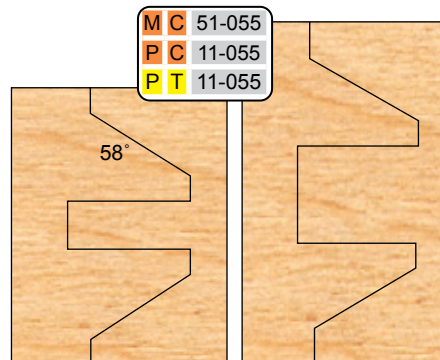
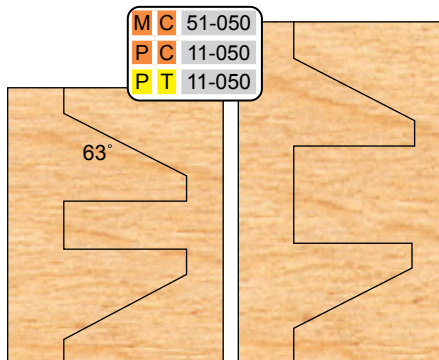
Eased edges are available for an additional 20%.

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)

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.

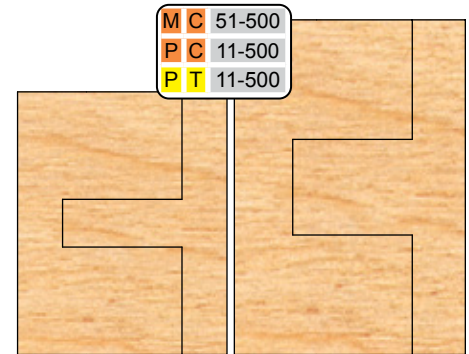
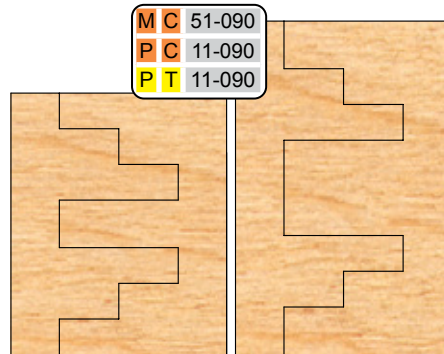
Any of the below groover sets may be exchanged at no charge at the time of purchase.

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)



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

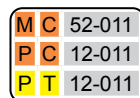
5/8" Deep Center Groover Chart		
	• MINI PRO SET	• PRO-LINE SET
1/4" GROOVERS ONLY	MC-51-904	PC-11-904
		PT-11-904
3/8" GROOVERS ONLY	MC-51-903	PC-11-903
		PT-11-903
1/2" GROOVERS ONLY	MC-51-905	PC-11-905
		PT-11-905

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

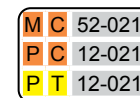
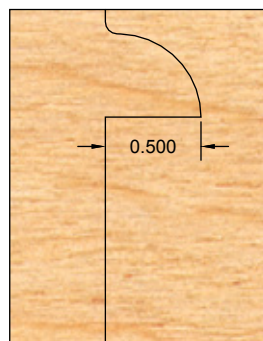
DOUBLE SIDED COPE & PATTERN GLASS PANEL OPTIONS (2 Piece Groover Sets)

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.



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



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

