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# General Cutting Tools

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**GENERAL PRODUCTS CATALOG**

**The World's Best Cutting Tools**

Designed for Superior Performance and Maximum Life

# Innovation

## Premier Fusion General Purpose Saw Blades



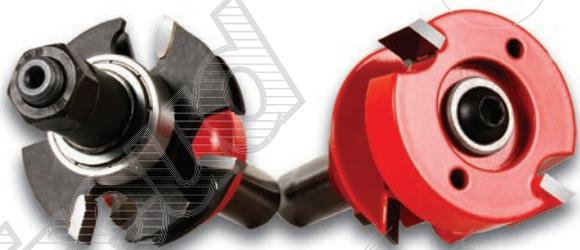
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## Premier Solid Carbide Bits



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## Premier Adjustable Rail & Stile Set



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## Dial-A-Width Dado Set



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## Quadra-Cut™ 4 Cutter Design Bits



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## Entry & Interior Door Set



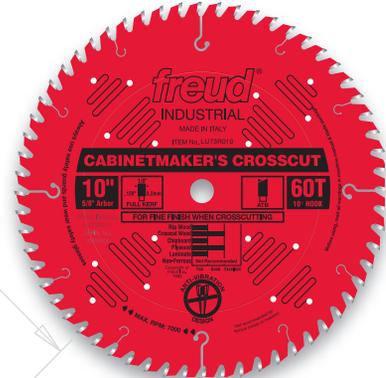
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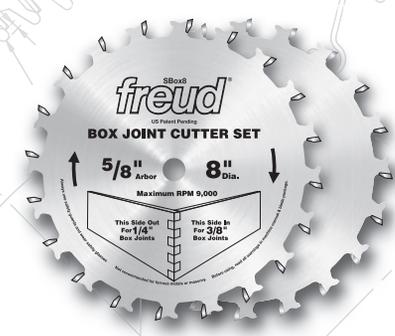
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**freud**<sup>®</sup>



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**freud**<sup>®</sup>

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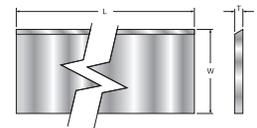
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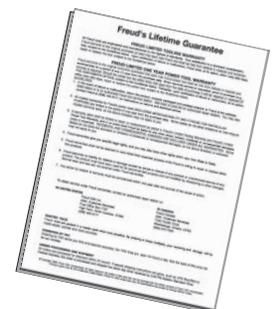
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# Manufacturing Innovation



A world leader in the production of woodworking tools, Freud employs the most innovative, technologically advanced manufacturing operations in the world. To ensure that the highest quality products meet the toughest design standards, Freud owns and operates manufacturing facilities. All of the facilities are ISO9001 Vision 2000 quality certified, an acknowledgement of top quality production processes.

In addition, Freud operates one of the most modern product development research centers for cutting tools. By overseeing the entire manufacturing process, from start to finish, Freud guarantees the highest quality, most advanced products in the industry.

# Freud Key Manufacturing Facilities



**Production of standard & custom cutterheads**



**Production of router bits**

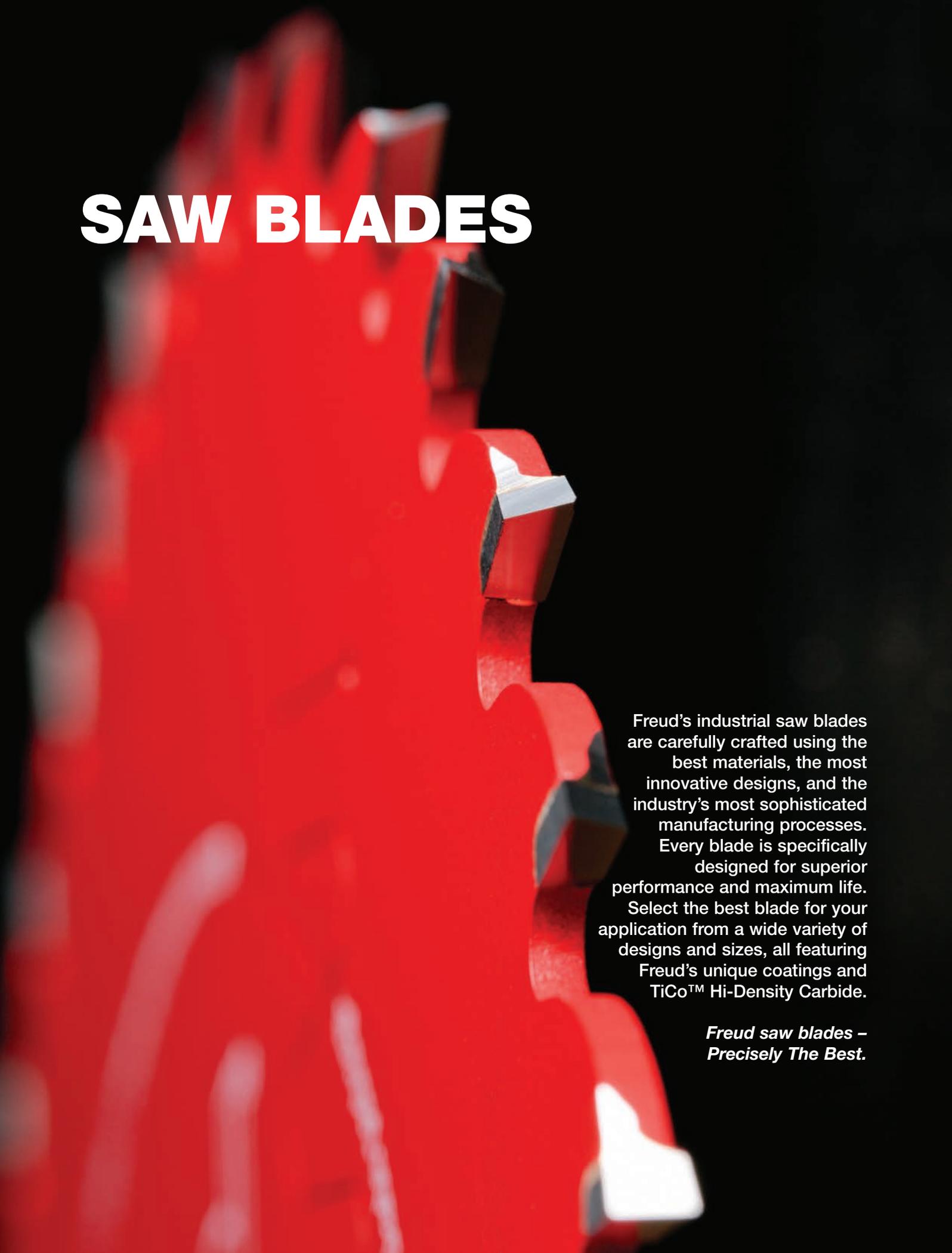


**Production of carbide**



**Production of saw blades**

# SAW BLADES



Freud's industrial saw blades are carefully crafted using the best materials, the most innovative designs, and the industry's most sophisticated manufacturing processes. Every blade is specifically designed for superior performance and maximum life. Select the best blade for your application from a wide variety of designs and sizes, all featuring Freud's unique coatings and TiCo™ Hi-Density Carbide.

*Freud saw blades –  
Precisely The Best.*

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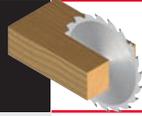
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# RIPPING BLADES



## Thin Kerf Rip Blades

### USE IN



Table Saws



Portable Table Saws

### APPLICATION

Thin Kerf ripping blades for underpowered saws and radial arm saws



**THIN KERF** allows for faster feed rate and reduced waste



**POSITIVE HOOK ANGLE** for fast cutting and easy feeding in ripping applications

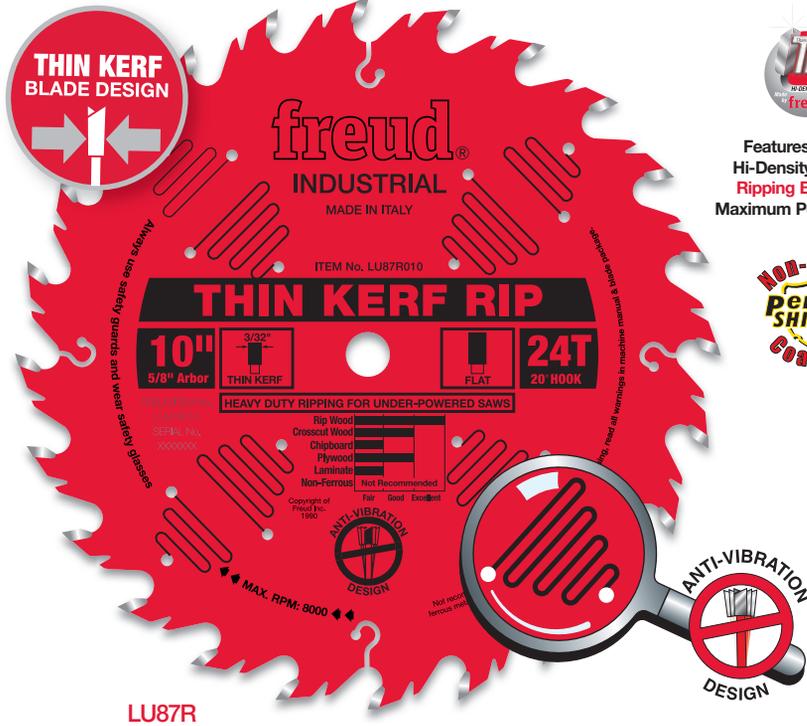
### DEPTH OF CUT



### MATERIALS



Maintain a proper feed rate. Feeding too slow causes burning of the material. Feeding too fast can be dangerous and produces a poor, dull cut.



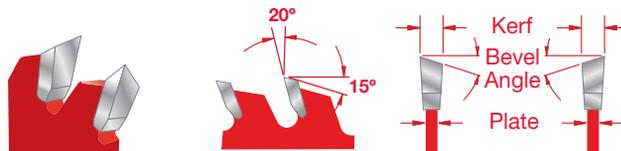
Features TiCo™ Hi-Density Carbide Ripping Blend For Maximum Performance



### RECOMMENDED USE

Rips Wood	FAIR	GOOD	EXCELLENT
Crosscuts Wood	FAIR	GOOD	EXCELLENT
Chip Board	FAIR	GOOD	EXCELLENT
Plywood	FAIR	GOOD	EXCELLENT
Laminate	FAIR	GOOD	EXCELLENT
Non-ferrous	FAIR	GOOD	EXCELLENT
<b>CUT QUALITY</b>	<b>FAIR</b>	<b>GOOD</b>	<b>EXCELLENT</b>

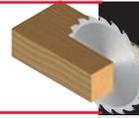
### CARBIDE GRADE



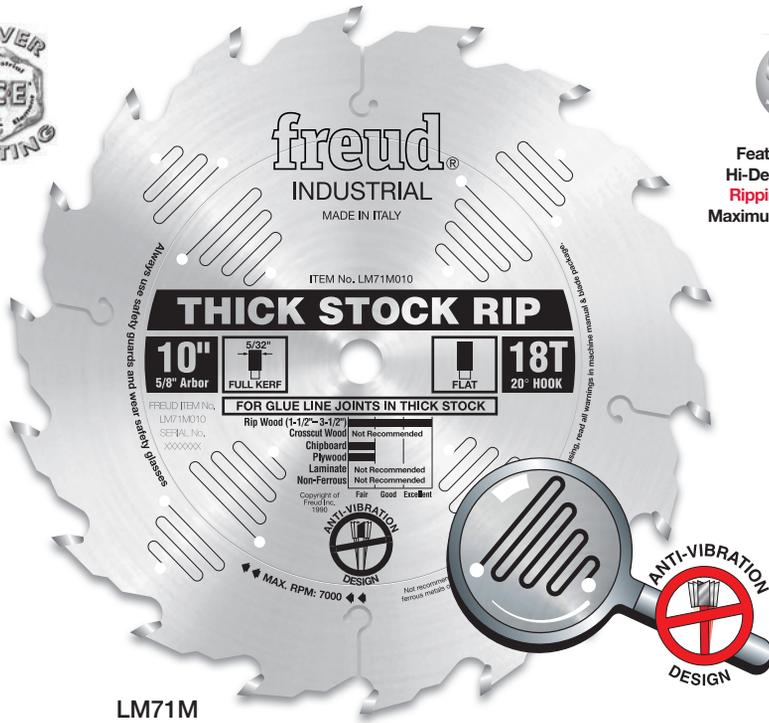
DIA.	KERF	PLATE	ARBOR	TEETH	BEVEL ANGLE	Perma-SHIELD®
160mm	.087	.063	20mm	14 ATB	10°	LU87R006M20*
8"	.087	.063	5/8"	22 ATB	15°	LU87R008
9"	.094	.071	5/8"	22 ATB	15°	LU87R009
10"	.094	.071	5/8"	24 ATB	15°	LU87R010
12"	.099	.071	5/8"	30 ATB	15°	LU87R012

\*Ideal for Track Saws

# Thick Stock Rip Blades



# RIPPING BLADES



Features TiCo™ Hi-Density Carbide Ripping Blend For Maximum Performance

## USE IN



Table Saws

## APPLICATION

High Speed Ripping for Glue Line Joints in Thick Stock



**HEAVY-DUTY THICK PLATE** ensures a stable, flat blade for long cutting life in extreme ripping conditions



**LARGE GULLETS** allow for fast ripping and easy chip removal

## DEPTH OF CUT



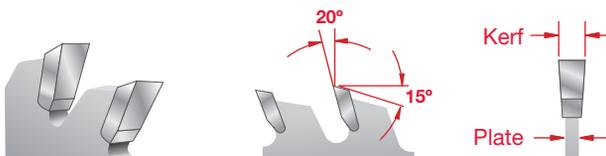
## MATERIALS



## RECOMMENDED USE

Rips Wood	[Red bar]		
Crosscuts Wood	[Red bar]	[Red bar]	[Red bar]
Chip Board	[Red bar]	[Red bar]	[Red bar]
Plywood	[Red bar]	[Red bar]	[Red bar]
Laminate	[Red bar]	[Red bar]	[Red bar]
Non-ferrous	[Red bar]	[Red bar]	[Red bar]
<b>CUT QUALITY</b>	<b>FAIR</b>	<b>GOOD</b>	<b>EXCELLENT</b>

## CARBIDE GRADE



DIA.	KERF	PLATE	ARBOR	TEETH	SILVER ICE™
10"	.153	.118	5/8"	18 FLAT	LM71M010
12"	.165	.118	1"	20 FLAT	LM71M012
14"	.165	.118	1"	24 FLAT	LM71M014
16"	.177	.118	1"	28 FLAT	LM71M016

**i** When ripping wood, 3 to 5 teeth should be working in the wood at one time

# RIPPING BLADES



## Heavy Duty Rip Blades

### USE IN



Table Saws

### APPLICATION

Smooth, Fast Heavy-Duty Ripping for Glue Line Joints in Thick Stock



**EXTRA LARGE, FLAT TOOTH DESIGN** leaves a smooth finish without the need for sanding or jointing

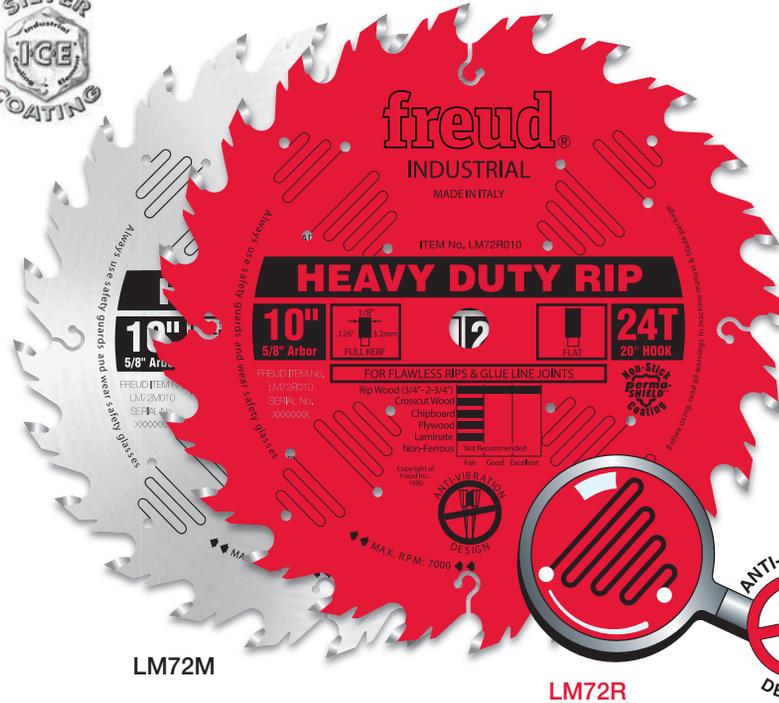


**LASER-CUT ANTI-VIBRATION SLOTS** drastically reduce vibration and sideways movement in the cut extending blade life, and giving a crisp, swirl-free flawless finish

### DEPTH OF CUT



### MATERIALS



Features TiCo™ Hi-Density Carbide Ripping Blend For Maximum Performance



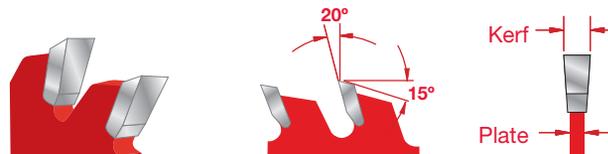
No Stabilizers Needed



### RECOMMENDED USE

Rips Wood	[Red bar]		
Crosscuts Wood	[Red bar]	[Red bar]	[Red bar]
Chip Board	[Red bar]	[Red bar]	[Red bar]
Plywood	[Red bar]	[Red bar]	[Red bar]
Laminate	[Red bar]	[Red bar]	[Red bar]
Non-ferrous	[Red bar]	[Red bar]	[Red bar]
<b>CUT QUALITY</b>	<b>FAIR</b>	<b>GOOD</b>	<b>EXCELLENT</b>

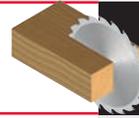
### CARBIDE GRADE



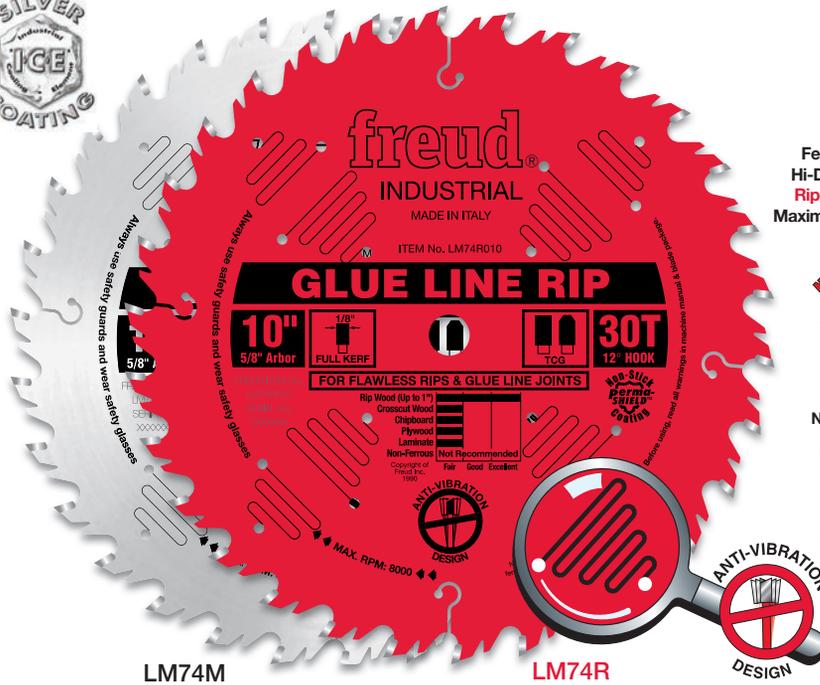
DIA.	KERF	PLATE	ARBOR	TEETH	Perma-SHIELD®	SILVER ICE™
8"	.126	.087	5/8"	24 FLAT	LM72R008	LM72M008
10"	.126	.087	5/8"	24 FLAT	LM72R010	LM72M010
12"	.169	.118	1"	30 FLAT	LM72R012	LM72M012
14"	.169	.118	1"	30 FLAT	LM72R014	LM72M014
16"	.177	.118	1"	36 FLAT	LM72R016	LM72M016

**i** When ripping wood, 3 to 5 teeth should be working in the wood at one time.

# Glue Line Ripping Blades



# RIPPING BLADES



LM74M

LM74R



Features TiCo™ Hi-Density Carbide Ripping Blend For Maximum Performance



No Stabilizers Needed



## USE IN



Table Saws

## APPLICATION

Heavy duty glue line ripping blades for extremely smooth, true surfaces for gluing and finish work. There is no need for sanding or jointing after the cut.



**HEAVY-DUTY THICK KERF AND PLATE** ensure a stable, flat blade for long cutting life

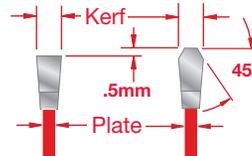
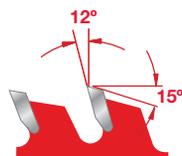
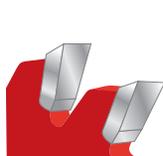


**LASER-CUT ANTI-VIBRATION SLOTS** drastically reduce vibration and sideways movement in the cut extending blade life, and giving a crisp, swirl-free flawless finish

## RECOMMENDED USE

Rips Wood	██████████	██████████	██████████
Crosscuts Wood	██████████	██████████	██████████
Chip Board	██████████	██████████	██████████
Plywood	██████████	██████████	██████████
Laminate	██████████	██████████	██████████
Non-ferrous	██████████	██████████	██████████
<b>CUT QUALITY</b>	<b>FAIR</b>	<b>GOOD</b>	<b>EXCELLENT</b>

## CARBIDE GRADE



## DEPTH OF CUT



## MATERIALS



DIA.	KERF	PLATE	ARBOR	TEETH	Perma-SHIELD®	SILVER ICE™
10"	.118	.098	5/8"	30 TCG	LM74R010	LM74M010
12"	.118	.098	1"	40 TCG	LM74R012	-
14"	.138	.118	1"	44 TCG	LM74R014	-

**i** For best results, set your saw so that one half of a carbide tip protrudes beyond the material to be cut

# RIPPING BLADES



## Thin Kerf Glue Line Ripping Blades

### USE IN



Table Saws



Portable Table Saws

### APPLICATION

Produces extremely smooth, true surfaces for gluing and finish work. There is no need for sanding or jointing after the cut.



**THIN KERF** requires less power and allows for faster feed rate



**LASER-CUT ANTI-VIBRATION SLOTS** drastically reduce vibration and sideways movement in the cut extending blade life, and giving a crisp, swirl-free flawless finish

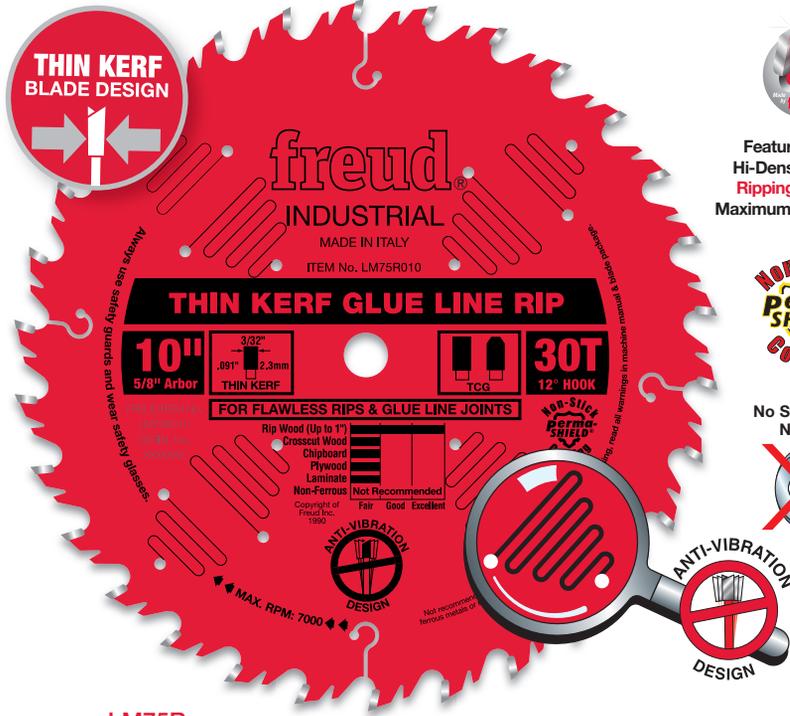
### DEPTH OF CUT



### MATERIALS



**i** When ripping wood, 3 to 5 teeth should be working in the wood at one time



LM75R



Features TiCo™ Hi-Density Carbide Ripping Blend For Maximum Performance



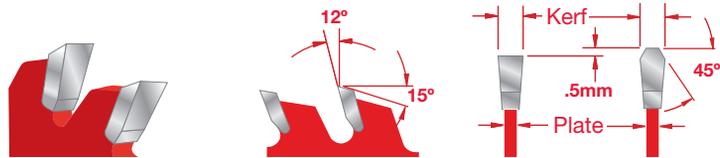
No Stabilizers Needed



### RECOMMENDED USE

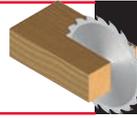
Rips Wood	██████████		
Crosscuts Wood	██████████		
Chip Board	██████████		
Plywood	██████████		
Laminate	██████████		
Non-ferrous	██████████		
<b>CUT QUALITY</b>	FAIR	GOOD	EXCELLENT

### CARBIDE GRADE

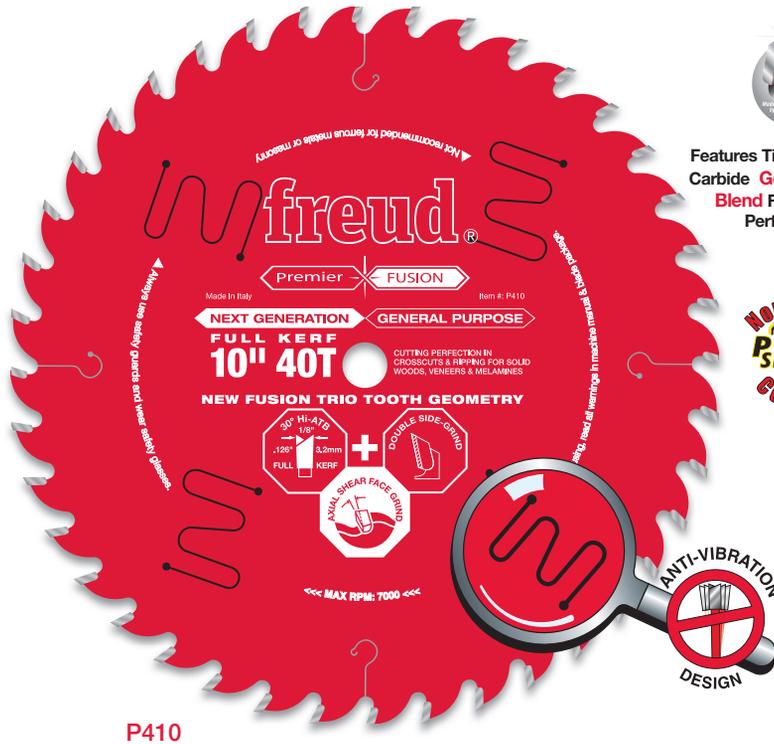


DIA.	KERF	PLATE	ARBOR	TEETH	Perma-SHIELD®
8"	.091	.071	5/8"	24 TCG	LM75R008
10"	.091	.071	5/8"	30 TCG	LM75R010
12"	.091	.071	5/8"	40 TCG	LM75R012

# Premier Fusion General Purpose Blade



# GENERAL PURPOSE/ COMBINATION



Features TiCo™ Hi-Density Carbide **General Purpose Blend** For Maximum Performance

## USE IN



Table Saws

## APPLICATION

Ultimate general purpose saw blade. One blade that does it all. From ripping to crosscutting, a Premier Fusion blade will tackle any project.

## FUSION TRIO TOOTH GEOMETRY



AXIAL SHEAR FACE GRIND



30° Hi-ATB

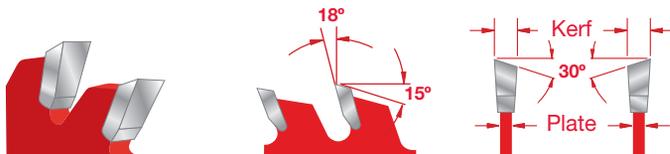


DOUBLE SIDE GRIND

## RECOMMENDED USE

Rips Wood			
Crosscuts Wood			
Plywood			
Laminate			
Non-ferrous			
<b>CUT QUALITY</b>	<b>FAIR</b>	<b>GOOD</b>	<b>EXCELLENT</b>

## CARBIDE GRADE



DIA.	KERF	PLATE	ARBOR	TEETH	Perma-SHIELD®
8"	.126	.098	5/8"	34 Hi-ATB	P408
10"	.126	.098	5/8"	40 Hi-ATB	P410
12"	.126	.098	1"	48 Hi-ATB	P412
14"	.126	.098	1"	54 Hi-ATB	P414

## DEPTH OF CUT



## MATERIALS



**i** When cutting on a table saw, put the finish side of your work piece facing up. When cutting with a hand-held saw, put the finish side down. This will reduce splintering.

# GENERAL PURPOSE/ COMBINATION



## Thin Kerf Premier Fusion General Purpose Blade

### USE IN



Table Saws

Miter Saws



Portable  
Table Saws

### APPLICATION

Ultimate general purpose saw blade. One blade that does it all. From ripping to crosscutting, a Premier Fusion blade will tackle any project.

### FUSION TRIO TOOTH GEOMETRY



AXIAL SHEAR  
FACE GRIND



30° Hi-ATB



DOUBLE  
SIDE GRIND

### DEPTH OF CUT



RIPPING



CROSSCUTTING

### MATERIALS

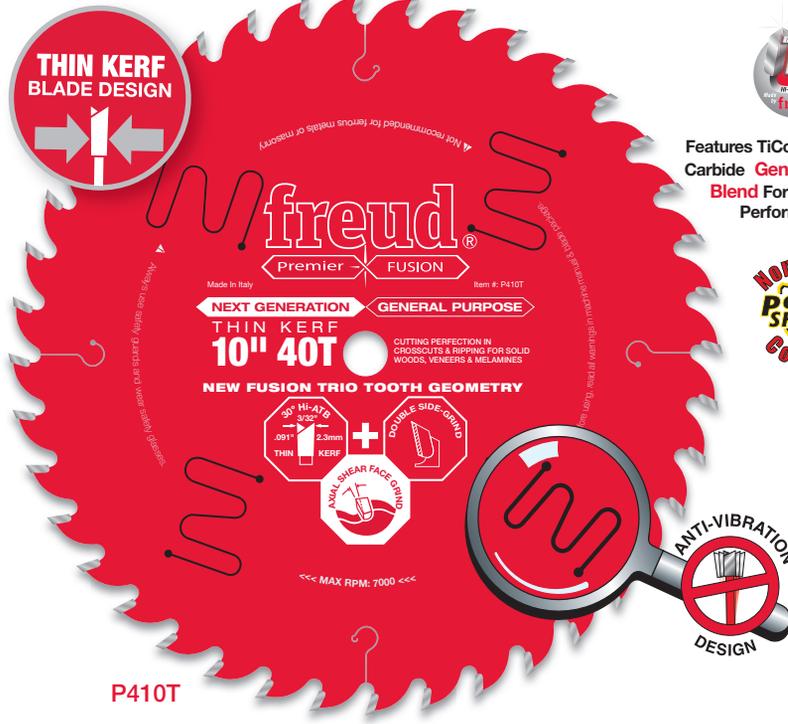


Hardwood Softwood Melamine



Veneered Plywood Plywood Laminate

If you experience burning on one side of the cut you should check and adjust the saw's alignment. Consult your saw owner's manual for alignment instructions.



P410T



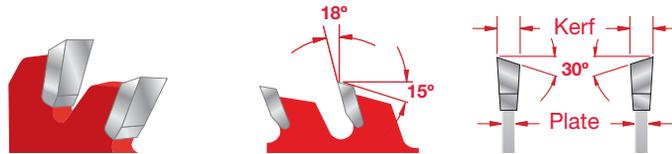
Features TiCo™ Hi-Density Carbide **General Purpose Blend** For Maximum Performance



### RECOMMENDED USE

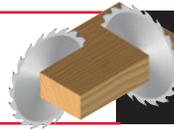
Rips Wood			
Crosscuts Wood			
Plywood			
Laminate			
Non-ferrous			
<b>CUT QUALITY</b>	<b>FAIR</b>	<b>GOOD</b>	<b>EXCELLENT</b>

### CARBIDE GRADE

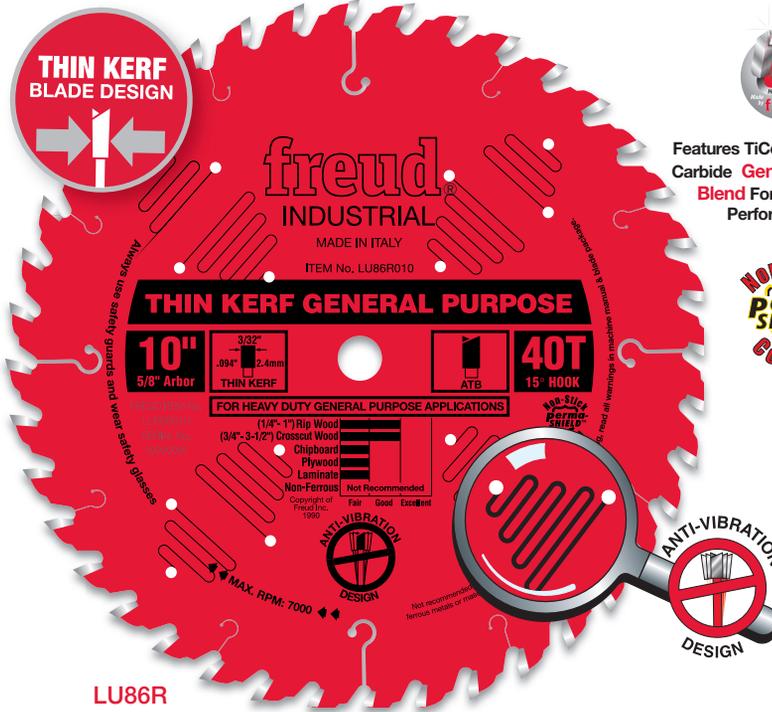


DIA.	KERF	PLATE	ARBOR	TEETH	Perma-SHIELD®
10"	.091	.071	5/8"	40 Hi-ATB	P410T

# Thin Kerf General Purpose Blades



# GENERAL PURPOSE/ COMBINATION



LU86R

Features TiCo™ Hi-Density Carbide General Purpose Blend For Maximum Performance

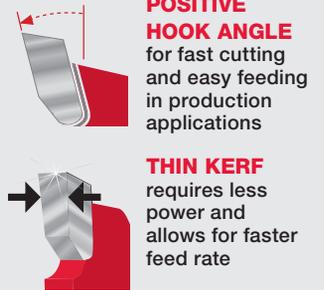


### USE IN



### APPLICATION

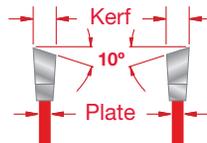
Heavy-duty thin kerf blade for general purpose applications



### RECOMMENDED USE

Rips Wood 1/4"-1"	FAIR	GOOD	EXCELLENT
Crosscuts Wood 3/4"-3-1/2"	FAIR	GOOD	EXCELLENT
Chip Board	FAIR	GOOD	EXCELLENT
Plywood	FAIR	GOOD	EXCELLENT
Laminate	FAIR	GOOD	EXCELLENT
Non-ferrous	FAIR	GOOD	EXCELLENT
<b>CUT QUALITY</b>	<b>FAIR</b>	<b>GOOD</b>	<b>EXCELLENT</b>

### CARBIDE GRADE



### DEPTH OF CUT



### MATERIALS



DIA.	KERF	PLATE	ARBOR	TEETH	Perma-SHIELD®
160mm	.096	.063	20mm	28 ATB	LU86R006M20*
8"	.087	.063	5/8"	34 ATB	LU86R008
10"	.094	.071	5/8"	40 ATB	LU86R010
12"	.094	.071	1"	48 ATB	LU86R012
14"	.106	.079	1"	54 ATB	LU86R014

**i** If you experience burning on one side of the cut you should check and adjust the saw's alignment. Consult your saw owner's manual for alignment instructions.

\*Ideal for Track Saws

# GENERAL PURPOSE/ COMBINATION

## Combination Blades

### USE IN



Table Saws

Miter Saws

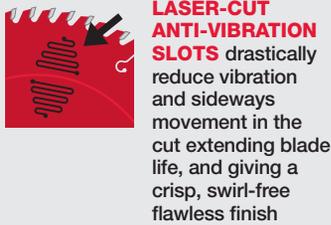
Radial Arm  
Table Saws

### APPLICATION

Multi purpose saw blade. It can rip a piece of 4/4 oak and also crosscut a sheet of 3/4" plywood.



**LARGE GULLET**  
in front of flat top rakers allow for fast ripping and easy chip removal



**LASER-CUT ANTI-VIBRATION SLOTS** drastically reduce vibration and sideways movement in the cut extending blade life, and giving a crisp, swirl-free flawless finish

### DEPTH OF CUT



### MATERIALS

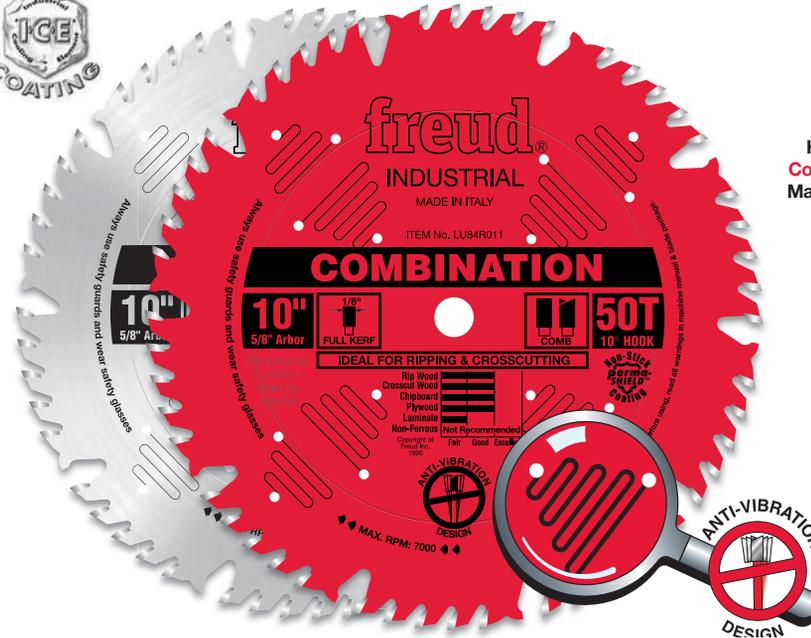


Hardwood

Softwood

Plywood

Laminate



LU84M

LU84R



Features TiCo™  
Hi-Density Carbide  
Combination Blend For  
Maximum Performance



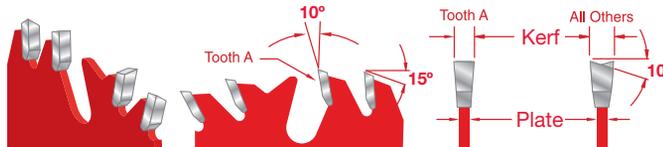
No Stabilizers  
Needed



### RECOMMENDED USE

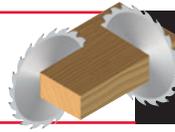
Rips Wood			
Crosscuts Wood			
Chip Board			
Plywood			
Laminate			
Non-ferrous			
<b>CUT QUALITY</b>	FAIR	GOOD	EXCELLENT

### CARBIDE GRADE

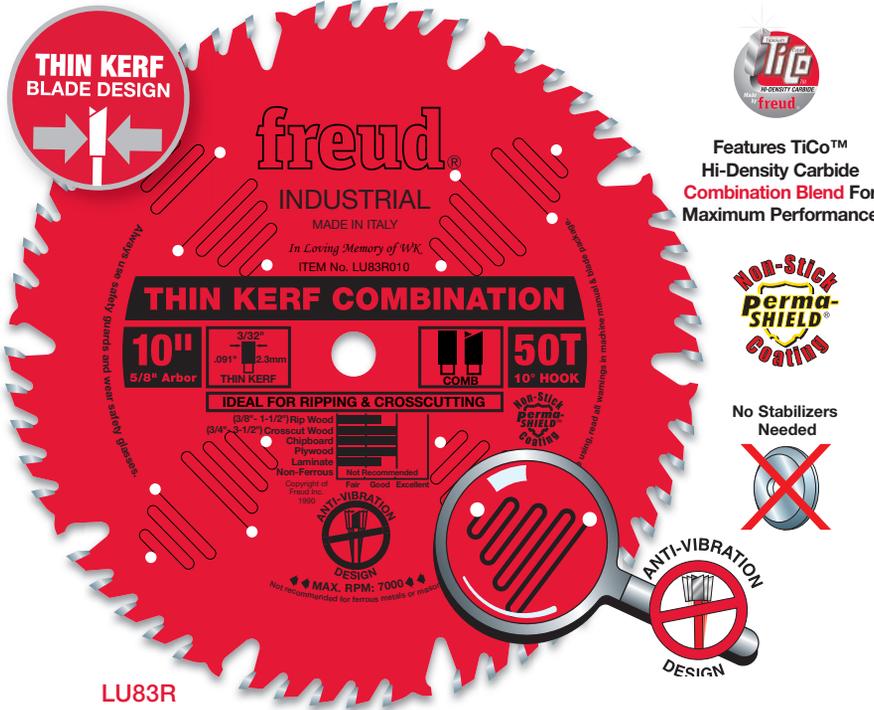


DIA.	KERF	PLATE	ARBOR	TEETH	Perma-SHIELD®	SILVER ICE™
8"	.126	.087	5/8"	40 COMB	LU84R008	LU84M008
9"	.126	.087	5/8"	40 COMB	LU84R009	LU84M009
10"	.126	.087	5/8"	50 COMB	LU84R011	LU84M011
12"	.126	.087	1"	60 COMB	LU84R012	LU84M012
14"	.157	.118	1"	70 COMB	LU84R014	LU84M014
16"	.157	.118	1"	80 COMB	LU84R016	LU84M016

# Thin Kerf Combination Blades



# GENERAL PURPOSE/ COMBINATION



LU83R

### USE IN



### APPLICATION

Heavy-duty thin kerf blade for general purpose application



**THIN KERF** requires less power and allows for faster feed rate

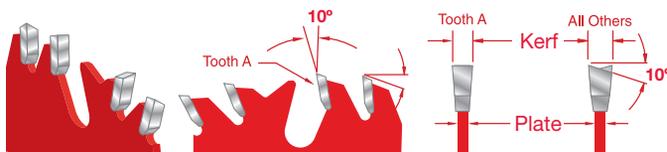


**LASER-CUT ANTI-VIBRATION SLOTS** drastically reduce vibration and sideways movement in the cut extending blade life, and giving a crisp, swirl-free flawless finish

### RECOMMENDED USE

Rips Wood	FAIR	GOOD	EXCELLENT
Crosscuts Wood	FAIR	GOOD	EXCELLENT
Chip Board	FAIR	GOOD	EXCELLENT
Plywood	FAIR	GOOD	EXCELLENT
Laminate	FAIR	GOOD	EXCELLENT
Non-ferrous	FAIR	GOOD	EXCELLENT
<b>CUT QUALITY</b>	<b>FAIR</b>	<b>GOOD</b>	<b>EXCELLENT</b>

### CARBIDE GRADE



DIA.	KERF	PLATE	ARBOR	TEETH	Perma-SHIELD®
8"	.083	.063	5/8"	40 COMB	LU83R008
10"	.091	.071	5/8"	50 COMB	LU83R010
12"	.091	.071	1"	60 COMB	LU83R012
15"	.098	.079	1"	80 COMB	LU83R015

### DEPTH OF CUT

3/8" MIN. 1 1/2" MAX.	3/4" MIN. 3 1/2" MAX.
RIPPING	CROSSCUTTING

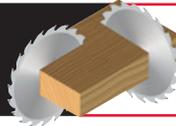
### MATERIALS



Maintain a proper feed rate. Feeding too slow causes burning of the material. Feeding too fast can be dangerous and produces a poor dull cut.

# GENERAL PURPOSE/ COMBINATION

# High-Production General Purpose Blades



## USE IN



Table Saws

Radial Arm Table Saws

## APPLICATION

For fast, thick stock cutting. Ideal for a production environment. With its low number of teeth and steep hook angle, this blade can operate at high feed rates. These features also make it the blade of choice when crosscutting extremely thick stock.



**POSITIVE HOOK ANGLE**  
for fast cutting and easy feeding in production applications



**HEAVY-DUTY THICK PLATE**  
ensures a stable, flat blade for long cutting life in extreme ripping conditions

## DEPTH OF CUT

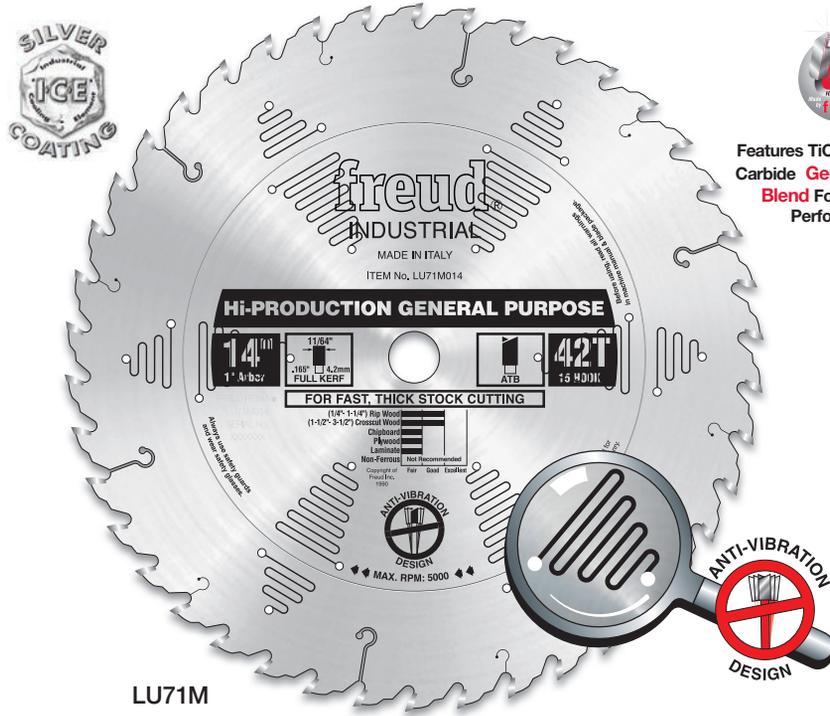


## MATERIALS



Hardwood Softwood

Plywood Laminate

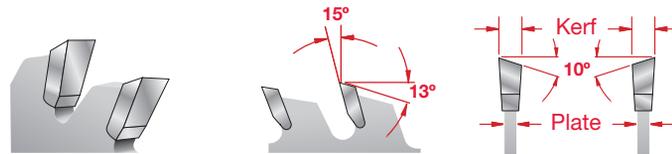


Features TiCo™ Hi-Density Carbide **General Purpose Blend** For Maximum Performance

## RECOMMENDED USE

Rips Wood	FAIR	GOOD	EXCELLENT
Crosscuts Wood	FAIR	GOOD	EXCELLENT
Chip Board	FAIR	GOOD	EXCELLENT
Plywood	FAIR	GOOD	EXCELLENT
Laminate	FAIR	GOOD	EXCELLENT
Non-ferrous	FAIR	GOOD	EXCELLENT
<b>CUT QUALITY</b>	<b>FAIR</b>	<b>GOOD</b>	<b>EXCELLENT</b>

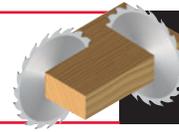
## CARBIDE GRADE



DIA.	KERF	PLATE	ARBOR	TEETH	SILVER ICE™
14"	.165	.118	1"	42 ATB	LU71M014
16"	.177	.118	1"	48 ATB	LU71M016

**i** Maintain a proper feed rate. Feeding too slow causes burning of the material. Feeding too fast can be dangerous and produces a poor dull cut.

# General Purpose Blades



# GENERAL PURPOSE/ COMBINATION



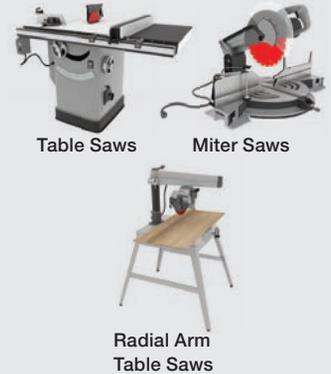
LU72M

LU72R

Features TiCo™ Hi-Density Carbide General Purpose Blend For Maximum Performance

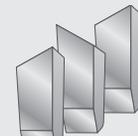


### USE IN



### APPLICATION

Heavy-Duty General Purpose Applications. Ideal for cutting thick hardwoods, softwoods and thinner stock materials.



**ALTERNATE TOP BEVEL (HI-ATB) TOOTH DESIGN** gives quality crosscuts

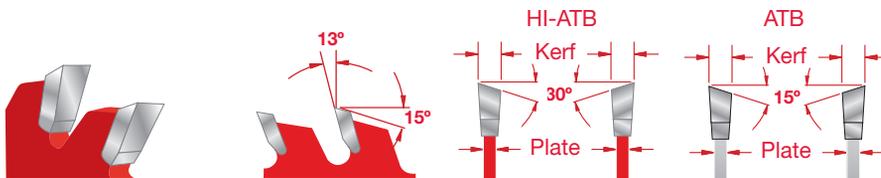


**POSITIVE 13° HOOK ANGLE** for fast cutting and easy feeding in production applications

### RECOMMENDED USE

Rips Wood 1/2"-1"			
Crosscuts Wood 1/2"-1"			
Chip Board			
Plywood			
Laminate			
Non-ferrous			
<b>CUT QUALITY</b>	<b>FAIR</b>	<b>GOOD</b>	<b>EXCELLENT</b>

### CARBIDE GRADE



### DEPTH OF CUT



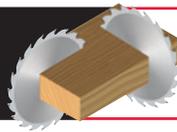
### MATERIALS



DIA.	KERF	PLATE	ARBOR	TEETH	Perma-SHIELD®	SILVER ICE™
10"	.126	.087	5/8"	40 Hi-ATB	LU72R010	-
12"	.126	.087	1"	48 Hi-ATB	LU72R012	-
14"	.138"	.098"	1"	54 ATB	-	LU72M014
16"	.150"	.110"	1"	60 ATB	-	LU72M016
18"	.157"	.118"	1"	66 ATB	-	LU72M018
20"	.165"	.126"	1"	72 ATB	-	LU72M020

**i** For best results, set your saw so that one half of a carbide tip protrudes beyond the material to be cut

# GENERAL PURPOSE/ COMBINATION



## Heavy Duty General Purpose Blades

### USE IN



Table Saws

Miter Saws



Radial Arm  
Table Saws

### APPLICATION

For long life in stacked chipboard and man-made materials. It will also cut hardwood and softwood up to 2-3/4" thick.



**FREUD-MADE TiCo™ CARBIDE** is durable and chemical-resistant for long life and razor-sharp cuts



**LASER-CUT ANTI-VIBRATION SLOTS** drastically reduce vibration and sideways movement in the cut extending blade life, and giving a crisp, swirl-free flawless finish

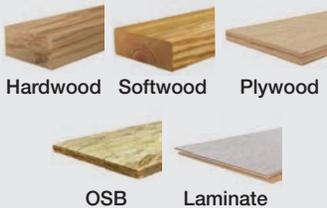
### DEPTH OF CUT



RIPPING

CROSSCUTTING

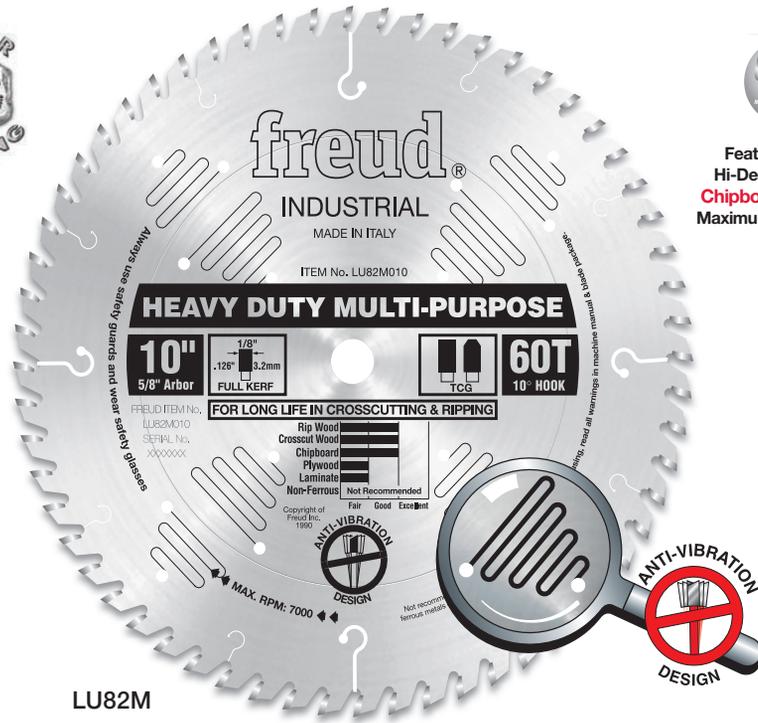
### MATERIALS



Hardwood Softwood Plywood

OSB Laminate

**i** Never use oven cleaner or other caustic substances to clean Freud saw blades

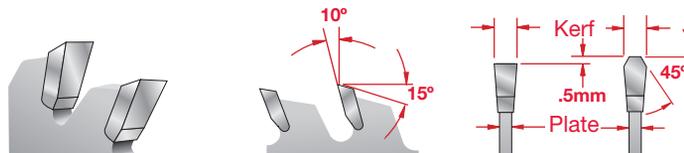


Features TiCo™  
Hi-Density Carbide  
Chipboard Blend For  
Maximum Performance

### RECOMMENDED USE

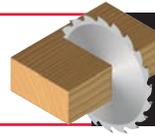
Rips Wood	████████	████████	████████
Crosscuts Wood	████████	████████	████████
Chip Board	████████	████████	████████
Plywood	████████	████████	████████
Laminate	████████	████████	████████
Non-ferrous	████████	████████	████████
<b>CUT QUALITY</b>	<b>FAIR</b>	<b>GOOD</b>	<b>EXCELLENT</b>

### CARBIDE GRADE



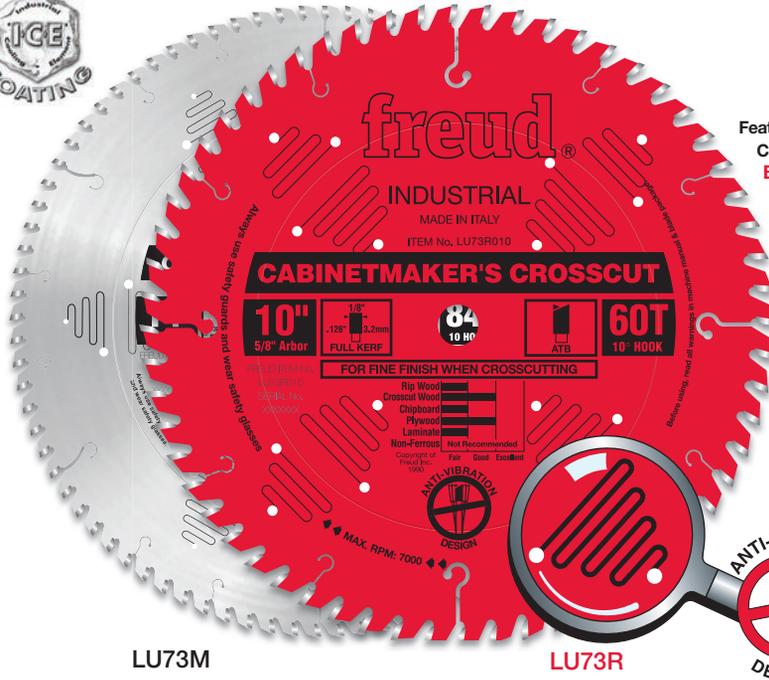
DIA.	KERF	PLATE	ARBOR	TEETH	SILVER ICE™
8"	.126	.087	5/8"	48 TCG	LU82M008
9"	.126	.087	5/8"	54 TCG	LU82M009
10"	.126	.087	5/8"	60 TCG	LU82M010
12"	.126	.087	1"	72 TCG	LU82M012
14"	.169	.118	1"	84 TCG	LU82M014
16"	.177	.118	1"	96 TCG	LU82M016

# Cabinet Maker's Crosscut Blades



# CROSSCUTTING BLADE

SAW BLADES



Features TiCo™ Hi-Density Carbide Crosscutting Blend For Maximum Performance

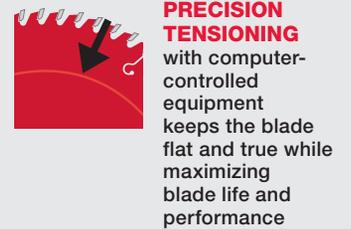


## USE IN



## APPLICATION

Includes a 38 degree Hi-ATB (Alternate Top Bevel) tooth grind that delivers excellent crosscuts in double-sided veneer plywood and double-sided melamine.



## RECOMMENDED USE

Rips Wood	██████████	██████████	██████████
Crosscuts Wood	██████████	██████████	██████████
Chip Board	██████████	██████████	██████████
Plywood	██████████	██████████	██████████
Laminate	██████████	██████████	██████████
Non-ferrous	██████████	██████████	██████████
<b>CUT QUALITY</b>	<b>FAIR</b>	<b>GOOD</b>	<b>EXCELLENT</b>

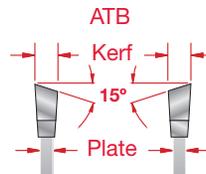
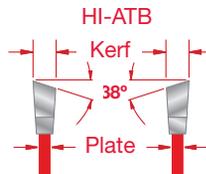
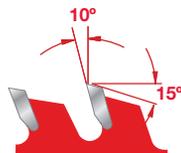
## CARBIDE GRADE



## DEPTH OF CUT



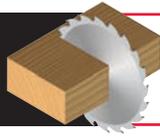
## MATERIALS



DIA.	KERF	PLATE	ARBOR	TEETH	Perma-SHIELD®	SILVER ICE™
10"	.126	.087	5/8"	60 Hi-ATB	LU73R010	-
12"	.126	.087	1"	72 Hi-ATB	LU73R012	-
14"	.138"	.098"	1"	84 ATB	-	LU73M014
16"	.150"	.110"	1"	96 ATB	-	LU73M016
18"	.157"	.118"	1"	108 ATB	-	LU73M018

**i** When cutting on a table saw, put the finish side of your work piece facing up. When cutting with a radial arm saw or hand-held saw, put the finish side down. This will reduce splintering.

# CROSSCUTTING BLADE



# Thin Kerf Sliding Compound Miter Saw Blades

## USE IN



## APPLICATION

Provides a superior finish cut with sliding compound miter saws and radial arm saws



**NEGATIVE HOOK ANGLE** minimizes climbing for better control



**THIN KERF** requires less power and allows for faster feed rate

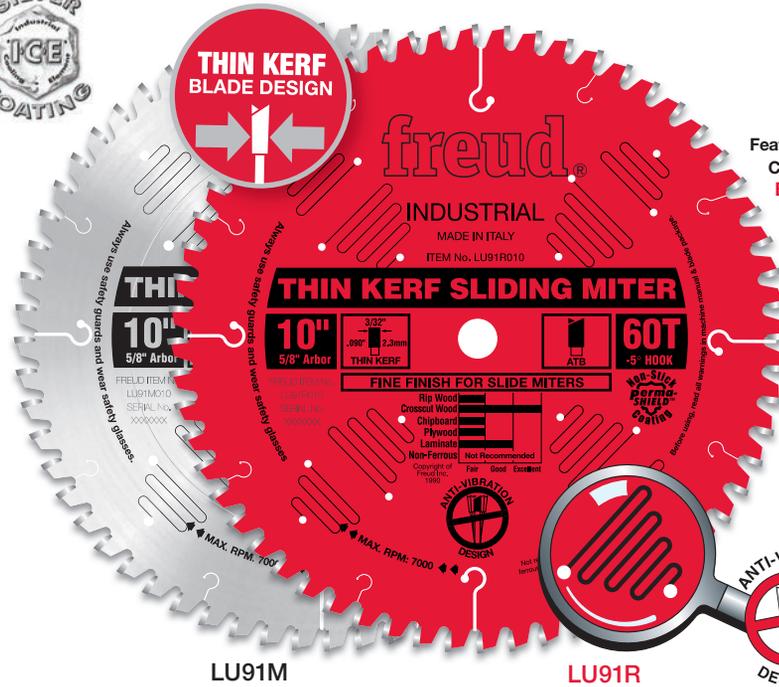
## DEPTH OF CUT



## MATERIALS



**i** For safety and best results when using a miter saw, securely clamp the material before cutting



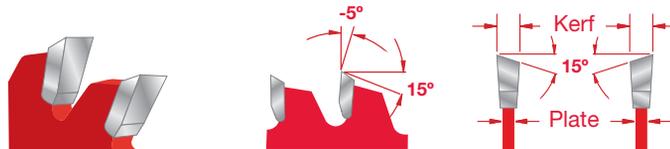
Features TiCo™ Hi-Density Carbide Crosscutting Blend For Maximum Performance



## RECOMMENDED USE

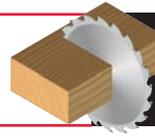
Rips Wood	FAIR	GOOD	EXCELLENT
Crosscuts Wood	FAIR	GOOD	EXCELLENT
Chip Board	FAIR	GOOD	EXCELLENT
Plywood	FAIR	GOOD	EXCELLENT
Laminate	FAIR	GOOD	EXCELLENT
Non-ferrous	FAIR	GOOD	EXCELLENT
<b>CUT QUALITY</b>	<b>FAIR</b>	<b>GOOD</b>	<b>EXCELLENT</b>

## CARBIDE GRADE

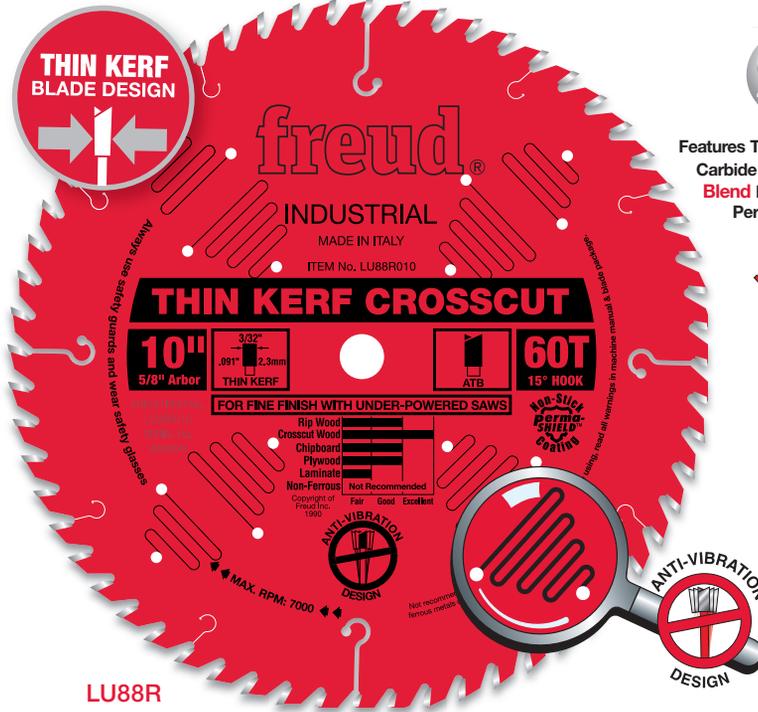


DIA.	KERF	PLATE	ARBOR	TEETH	Perma-SHIELD®	SILVER ICE™
8-1/2"	.090	.071	5/8"	48 ATB	LU91R008	LU91M008
10"	.090	.071	5/8"	60 ATB	LU91R010	LU91M010
12"	.090	.071	1"	72 ATB	LU91R012	LU91M012

# Thin Kerf Fine Finish Crosscut Blades



# CROSSCUTTING BLADE



LU88R



Features TiCo™ Hi-Density Carbide **Crosscutting Blend** For Maximum Performance

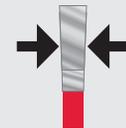


## USE IN



## APPLICATION

Crosscutting blades for fine finish with underpowered saws. Produces smooth crosscuts in hardwoods, softwoods and moldings.



**THIN KERF** reduces waste and feeds easier

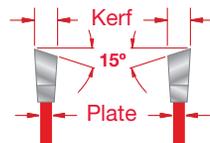


**POSITIVE HOOK ANGLE** produce a smoother cut and allow for a faster feed rate

## RECOMMENDED USE

Rips Wood			
Crosscuts Wood			
Chip Board			
Plywood			
Laminate			
Non-ferrous			
<b>CUT QUALITY</b>	<b>FAIR</b>	<b>GOOD</b>	<b>EXCELLENT</b>

## CARBIDE GRADE



## DEPTH OF CUT



## MATERIALS

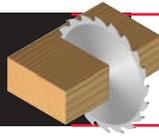


DIA.	KERF	PLATE	ARBOR	TEETH	Perma-SHIELD®
8"	.083	.063	5/8"	48 ATB	LU88R008
9"	.090	.071	5/8"	54 ATB	LU88R009
10"	.090	.071	5/8"	60 ATB	LU88R010
12"	.094	.071	1"	80 ATB	LU88R012



If you experience burning on one side of the cut you should check and adjust the saw's alignment. Consult your saw's owner's manual for alignment instructions.

# CROSSCUTTING BLADE



## Ultimate Cut-Off Blades

### USE IN



Table Saws

Miter Saws

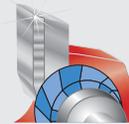
Radial Arm Table Saws

Sliding Compound Miter Saws

### APPLICATION

Polish material as it cuts, giving it glass-smooth finishes when crosscutting hard and soft woods. No sanding is required.

**UNIQUE SIDE GRIND** polishes the material to produce a superior finish



**LASER-CUT ANTI-VIBRATION SLOTS** drastically reduce vibration and sideways movement in the cut extending blade life, and giving a crisp, swirl-free flawless finish



### DEPTH OF CUT



### MATERIALS



Hardwood

Softwood

Plywood

Laminate

**i** When crosscutting, 5 to 7 teeth should be working in the wood at one time



LU85R



Features TiCo™ Hi-Density Carbide Crosscutting Blend For Maximum Performance



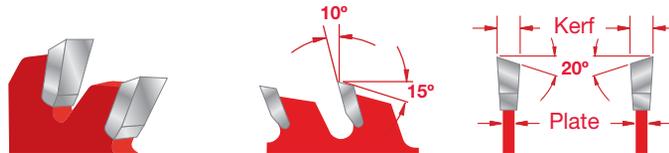
No Stabilizers Needed



### RECOMMENDED USE

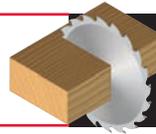
Rips Wood	FAIR	GOOD	EXCELLENT
Crosscuts Wood	FAIR	GOOD	EXCELLENT
Chip Board	FAIR	GOOD	EXCELLENT
Plywood	FAIR	GOOD	EXCELLENT
Laminate	FAIR	GOOD	EXCELLENT
Non-ferrous	FAIR	GOOD	EXCELLENT
<b>CUT QUALITY</b>	<b>FAIR</b>	<b>GOOD</b>	<b>EXCELLENT</b>

### CARBIDE GRADE



DIA.	KERF	PLATE	ARBOR	TEETH	Perma-SHIELD®
8"	.116	.098	5/8"	64 ATB	LU85R008
9"	.116	.098	5/8"	72 ATB	LU85R009
10"	.116	.098	5/8"	80 ATB	LU85R010
12"	.116	.098	1"	96 ATB	LU85R012
14"	.136	.118	1"	108 ATB	LU85R014
15"	.136	.118	1"	108 ATB	LU85R015

# Thin Kerf Ultimate Cut-Off Blades



# CROSSCUTTING BLADE

SAW BLADES

## USE IN



Features TiCo™ Hi-Density Carbide Crosscutting Blend For Maximum Performance

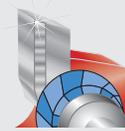


No Stabilizers Needed



## APPLICATION

Ultimate cut-off blades for glass-smooth finishes with underpowered saws



**UNIQUE SIDE GRIND** polishes the material to produce a superior finish

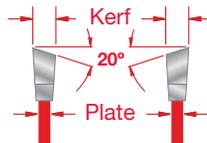
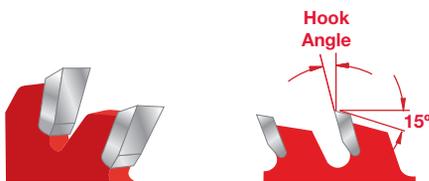


**THIN KERF** reduces waste and feeds easier

## RECOMMENDED USE

Rips Wood	FAIR	GOOD	EXCELLENT
Crosscuts Wood	FAIR	GOOD	EXCELLENT
Chip Board	FAIR	GOOD	EXCELLENT
Plywood	FAIR	GOOD	EXCELLENT
Laminate	FAIR	GOOD	EXCELLENT
Non-ferrous	FAIR	GOOD	EXCELLENT

## CARBIDE GRADE

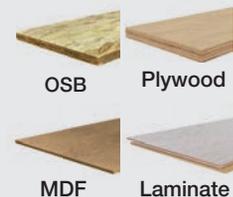


DIA.	KERF	PLATE	ARBOR	HOOK ANGLE	TEETH	Perma-SHIELD®
8"	.087	.063	5/8"	10°	64 ATB	LU74R008
10"	.091	.071	5/8"	10°	80 ATB	LU74R010
12"	.091	.071	1"	10°	96 ATB	LU74R012
14"	.118	.087	1"	10°	108 ATB	LU74R014

## DEPTH OF CUT

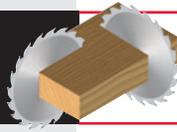


## MATERIALS



**i** Maintain a proper feed rate. Feeding too slow causes burning of the material. Feeding too fast can be dangerous and produces a poor dull cut.

# PLYWOOD BLADES



## Ultimate Plywood & Melamine Blades

### USE IN



Table Saws

Miter Saws

Radial Arm Table Saws

### APPLICATION

Flawless, virtually chip-free edges in veneered plywoods, fine moldings, melamine, laminates, and crosscuts in solid woods. It eliminates the need for stabilizer or a scoring blade.



**HIGH ALTERNATE TOP BEVEL (HI-ATB)** Tooth Design produces splinter-free cuts



**LASER-CUT ANTI-VIBRATION SLOTS** drastically reduce vibration and sideways movement in the cut extending blade life, and giving a crisp, swirl-free flawless finish

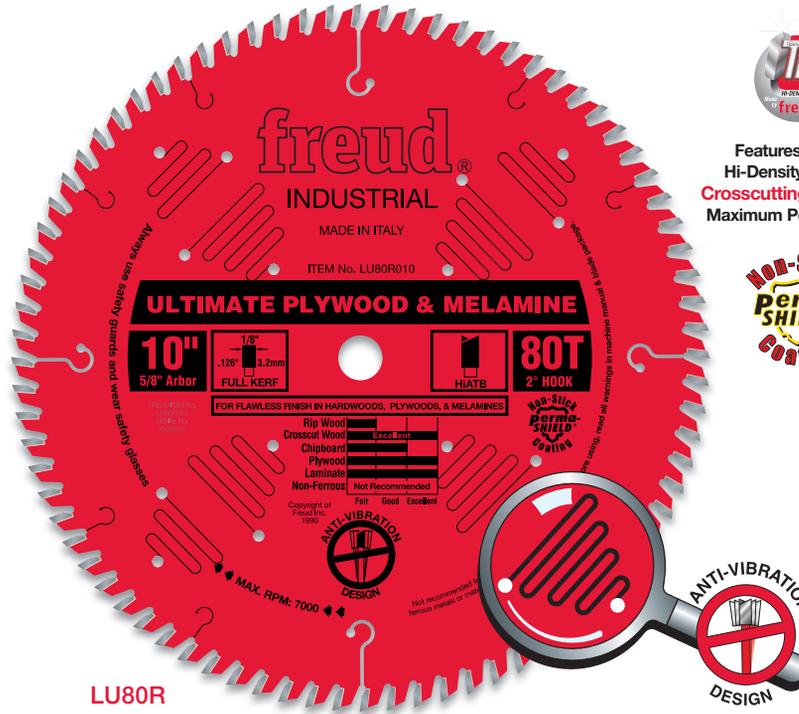
### DEPTH OF CUT



### MATERIALS



When you need a smooth finish on both sides of plywood or laminate use a zero clearance insert or blade with Hi-ATB teeth



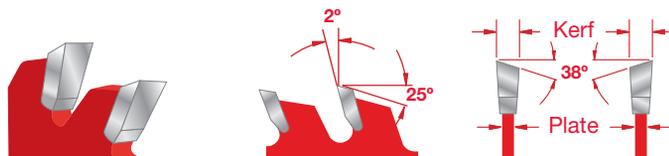
Features TiCo™ Hi-Density Carbide Crosscutting Blend For Maximum Performance



### RECOMMENDED USE

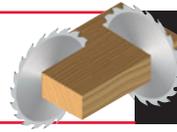
Rips Wood	Excellent	Good	Fair
Crosscuts Wood	Excellent	Good	Fair
Chip Board	Excellent	Good	Fair
Plywood	Excellent	Good	Fair
Laminate	Excellent	Good	Fair
Non-ferrous	Not Recommended	Not Recommended	Not Recommended
<b>CUT QUALITY</b>	<b>FAIR</b>	<b>GOOD</b>	<b>EXCELLENT</b>

### CARBIDE GRADE



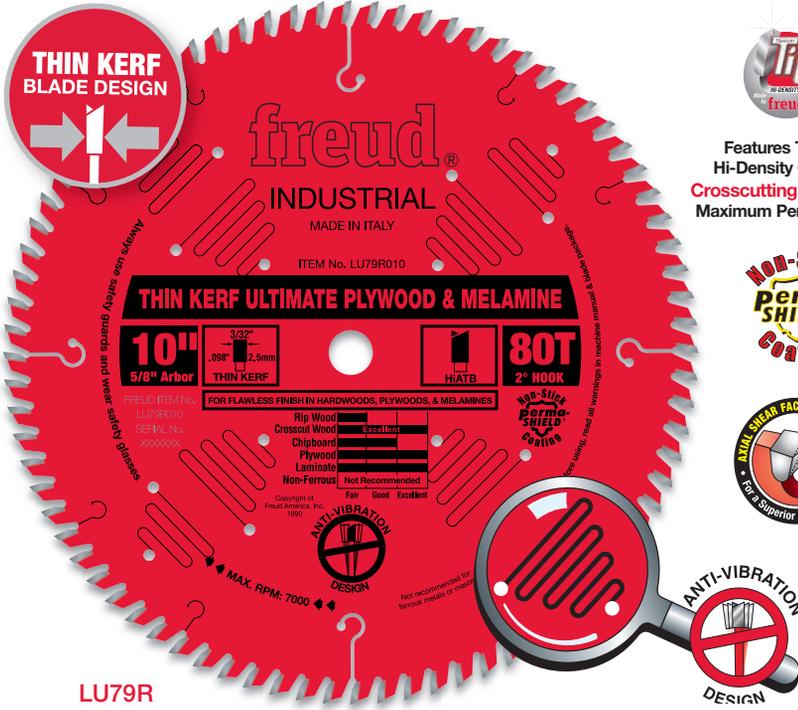
DIA.	KERF	PLATE	ARBOR	TEETH	Perma-SHIELD®
10"	.126	.087	5/8"	80 Hi-ATB	LU80R010
12"	.126	.087	1"	96 Hi-ATB	LU80R012

# Thin Kerf Ultimate Plywood & Melamine Blades



# PLYWOOD BLADES

SAW BLADES



LU79R



Features TiCo™ Hi-Density Carbide Crosscutting Blend For Maximum Performance



## USE IN



## APPLICATION

Flawless, chip-free edges in veneered plywoods, fine moldings, melamine, laminates, and crosscuts in solid woods



**HIGH ALTERNATE TOP BEVEL (HI-ATB) Tooth Design** produces splinter-free cuts



**LASER-CUT ANTI-VIBRATION SLOTS** drastically reduce vibration and sideways movement in the cut extending blade life, and giving a crisp, swirl-free flawless finish

## DEPTH OF CUT



## MATERIALS

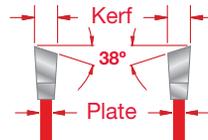


When you need a smooth finish on both sides of plywood or laminate use a zero clearance insert or blade with Hi-ATB teeth

## RECOMMENDED USE

Rips Wood	FAIR	GOOD	EXCELLENT
Crosscuts Wood	FAIR	GOOD	EXCELLENT
Chip Board	FAIR	GOOD	EXCELLENT
Plywood	FAIR	GOOD	EXCELLENT
Laminate	FAIR	GOOD	EXCELLENT
Non-ferrous	FAIR	GOOD	EXCELLENT

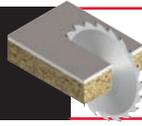
## CARBIDE GRADE



DIA.	KERF	PLATE	ARBOR	TEETH	Perma-SHIELD®
160mm	.087"	.063"	20mm	48 Hi-ATB	LU79R006M20*
7-1/4"	.079"	.063"	5/8"	60 Hi-ATB	LU79R007
10"	.098"	.071"	5/8"	80 Hi-ATB	LU79R010
12"	.098"	.071"	1"	96 Hi-ATB	LU79R012

\*Ideal for Track Saws

# STACKED CHIPBOARD BLADES



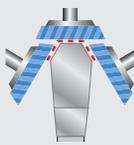
## Heavy-Duty Stacked Chipboard Blades

### USE IN

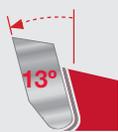


### APPLICATION

For sizing sheet goods where speed is more important than a smooth finish or when cutting stacks of material



**TRIPLE CHIP GRIND (TCG) TOOTH DESIGN** offers longer life when cutting abrasive man-made materials



**POSITIVE HOOK ANGLE** for fast cutting and easy feeding in production applications

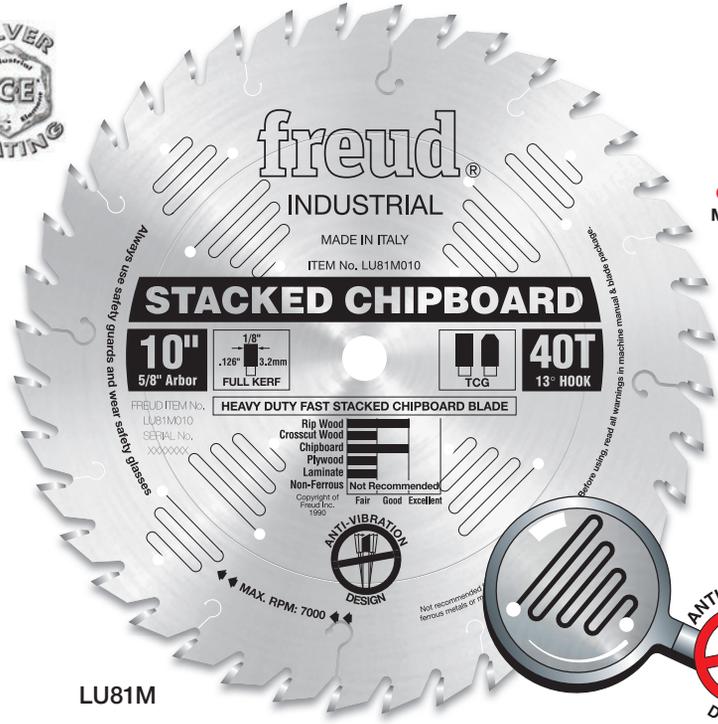
### DEPTH OF CUT



### MATERIALS



Resin build up can cause a blade to drag in the cut, resulting in shorter blade life, burning in the cut and unnecessary strain on the saw. For best results, be sure the blade is clean before use.

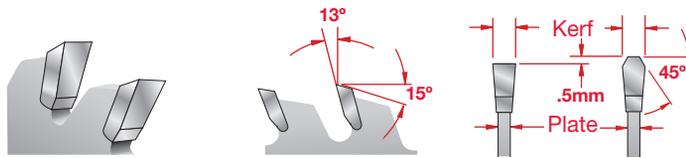


Features TiCo™ Hi-Density Carbide Chipboard Blend For Maximum Performance

### RECOMMENDED USE

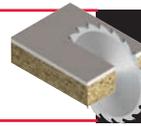
Rips Wood	FAIR	GOOD	EXCELLENT
Crosscuts Wood	FAIR	GOOD	EXCELLENT
Chip Board	FAIR	GOOD	EXCELLENT
Plywood	FAIR	GOOD	EXCELLENT
Laminate	FAIR	GOOD	EXCELLENT
Non-ferrous	FAIR	GOOD	EXCELLENT
<b>CUT QUALITY</b>	<b>FAIR</b>	<b>GOOD</b>	<b>EXCELLENT</b>

### CARBIDE GRADE

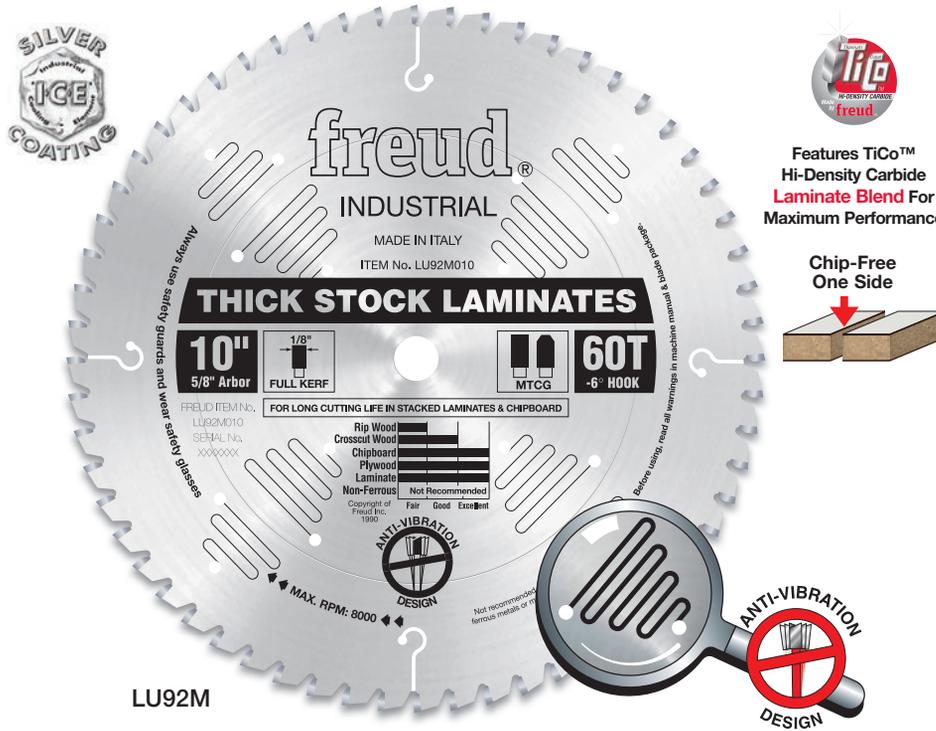


DIA.	KERF	PLATE	ARBOR	TEETH	SILVER ICE™
10"	.126	.087	5/8"	40 TCG	LU81M010
12"	.126	.087	1"	48 TCG	LU81M012
14"	.138	.098	1"	54 TCG	LU81M014
16"	.150	.110	1"	60 TCG	LU81M016

# Thick Stock Laminate Blades



# LAMINATE/ MELAMINE BLADES



Features **TiCo™** Hi-Density Carbide Laminate Blend For Maximum Performance

Chip-Free One Side



## USE IN



Table Saws

Miter Saws

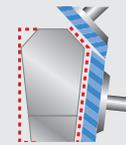


Vertical Panel Saws

Radial Arm Table Saws

## APPLICATION

Heavy-duty production blade. Produces an excellent finish on the top and bottom of thick laminates and melamine. Ideal for cutting stacked 3/4" laminates and melamine.



**MODIFIED TRIPLE CHIP GRIND (MTCG) TOOTH DESIGN** for long life and chip-free cuts in thick stock man-made materials

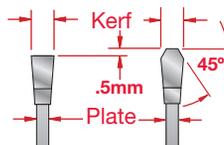
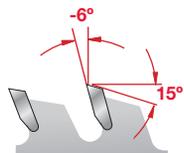


**NEGATIVE HOOK ANGLE** minimizes in laminates and melamine

## RECOMMENDED USE

Rips Wood	FAIR	GOOD	EXCELLENT
Crosscuts Wood	FAIR	GOOD	EXCELLENT
Chip Board	FAIR	GOOD	EXCELLENT
Plywood	FAIR	GOOD	EXCELLENT
Laminate	FAIR	GOOD	EXCELLENT
Non-ferrous	FAIR	GOOD	EXCELLENT
<b>CUT QUALITY</b>	<b>FAIR</b>	<b>GOOD</b>	<b>EXCELLENT</b>

## CARBIDE GRADE



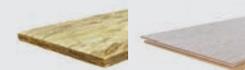
## DEPTH OF CUT



## MATERIALS



Hardwood Softwood Plywood

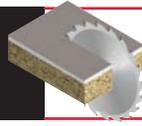


OSB Laminate

DIA.	KERF	PLATE	ARBOR	TEETH	SILVER ICE™
8"	.126	.087	5/8"	48 MTCG	LU92M008
9"	.126	.087	5/8"	56 MTCG	LU92M009
10"	.126	.087	5/8"	60 MTCG	LU92M010
12"	.126	.087	1"	72 MTCG	LU92M012
14"	.138	.098	1"	84 MTCG	LU92M014

Proper blade height is essential to chip-free cuts. If you experience chipping on the bottom of the material, lower the blade slightly. If there is chipping on the top of the material the blade height should be increased slightly.

# LAMINATE/ MELAMINE BLADE



## Single-Sided Laminate/ Melamine Blade

### USE IN



### APPLICATION

Long life, production blades for single-sided laminates, chip board and other man-made materials



**TRIPLE CHIP GRIND (TCG) TOOTH DESIGN** with a positive hook angle for long life in production applications



**POSITIVE HOOK ANGLE** for fast cutting and easy feed

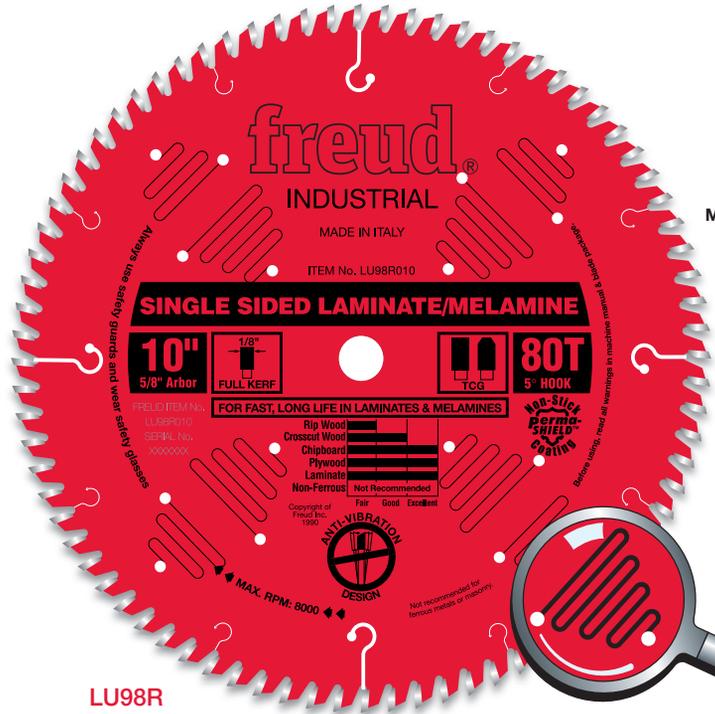
### DEPTH OF CUT



### MATERIALS



When cutting man-made products, such as laminates, melamines, MDF, and particle board, use a blade with Triple Chip Grind (TCG) blade life.



Features TiCo™ Hi-Density Carbide Laminate Blend For Maximum Performance



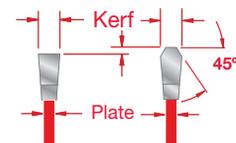
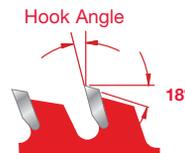
Chip-Free One Side



### RECOMMENDED USE

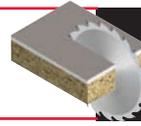
Rips Wood	████████	████████	████████
Crosscuts Wood	████████	████████	████████
Chip Board	████████	████████	████████
Plywood	████████	████████	████████
Laminate	████████	████████	████████
Non-ferrous	████████	████████	████████
<b>CUT QUALITY</b>	<b>FAIR</b>	<b>GOOD</b>	<b>EXCELLENT</b>

### CARBIDE GRADE

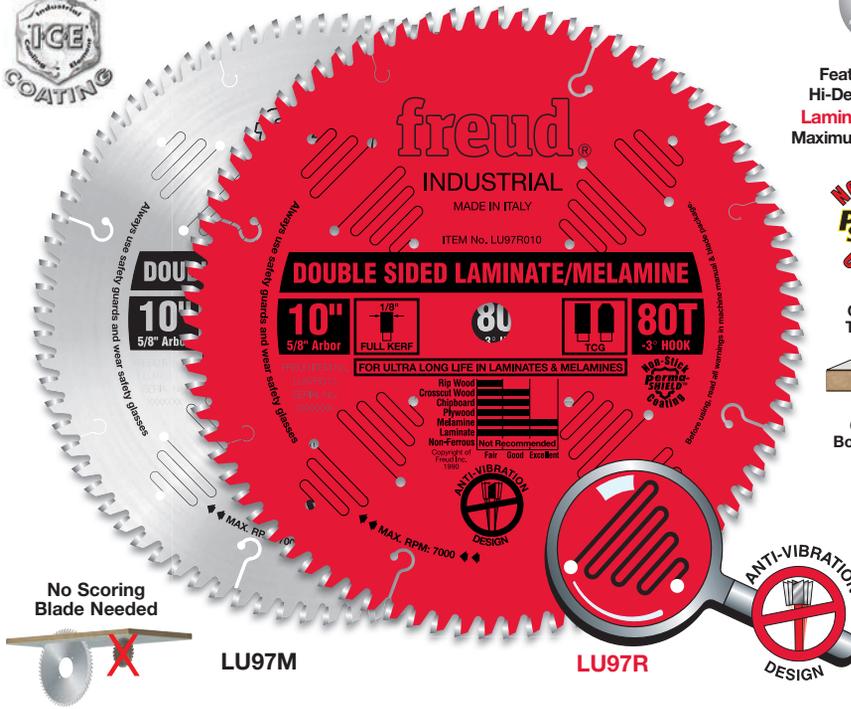


DIA.	KERF	PLATE	ARBOR	HOOK ANGLE	TEETH	Perma-SHIELD®
7"	.126	.087	5/8"	5°	56 TCG	LU98R007
8"	.126	.087	5/8"	5°	64 TCG	LU98R008
9"	.126	.087	5/8"	5°	72 TCG	LU98R009
10"	.126	.087	5/8"	5°	80 TCG	LU98R010
12"	.126	.087	1"	5°	96 TCG	LU98R012
14"	.138	.098	1"	7°	108 TCG	LU98R014
16"	.150	.110	1"	10°	120 TCG	LU98R016

# Double-Sided Laminate/ Melamine Blades



# LAMINATE/ MELAMINE BLADES



Features TiCo™  
Hi-Density Carbide  
Laminate Blend For  
Maximum Performance



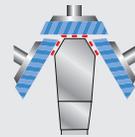
Chip-Free  
Top of Cut  
  
Chip-Free  
Bottom of Cut

## USE IN



## APPLICATION

Designed to give long life and excellent finish on the top and bottom of laminates, melamine & veneered plywood. No scoring blades needed with this blade.



**TRIPLE CHIP GRIND (TCG) TOOTH DESIGN** with a positive hook angle for long life in production applications

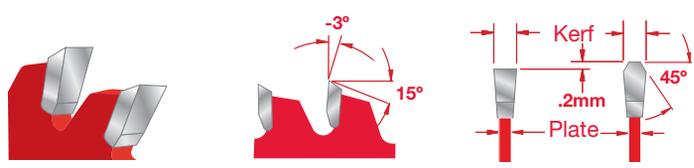


**LASER-CUT ANTI-VIBRATION SLOTS** drastically reduce vibration and sideways movement in the cut extending blade life, and giving a crisp, swirl-free flawless finish

## RECOMMENDED USE

Rips Wood	FAIR	GOOD	EXCELLENT
Crosscuts Wood	FAIR	GOOD	EXCELLENT
Chip Board	FAIR	GOOD	EXCELLENT
Plywood	FAIR	GOOD	EXCELLENT
Melamine	FAIR	GOOD	EXCELLENT
Laminate	FAIR	GOOD	EXCELLENT
Non-ferrous	FAIR	GOOD	EXCELLENT
<b>CUT QUALITY</b>	<b>FAIR</b>	<b>GOOD</b>	<b>EXCELLENT</b>

## CARBIDE GRADE



DIA.	KERF	PLATE	ARBOR	TEETH	Perma-SHIELD®	SILVER ICE™
8"	.126	.087	5/8"	64 TCG	LU97R008	-
10"	.126	.087	5/8"	80 TCG	LU97R010	LU97M010
12"	.126	.087	1"	96 TCG	LU97R012	-
14"	.138	.098	1"	108 TCG	LU97R014	-

## DEPTH OF CUT

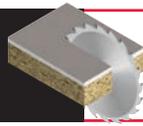


## MATERIALS



Proper blade height is essential to chip-free cuts. If you experience chipping on the bottom of the material, lower the blade slightly. If there is chipping on the top of the material the blade height should be increased slightly.

# LAMINATE/ MELAMINE BLADE



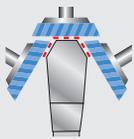
## Thin Kerf Double-Sided Laminate/Melamine

### USE IN



### APPLICATION

Designed to give long life and excellent finish on the top and bottom of laminates, melamine & veneered plywood. No scoring blades needed with this blade!



**TRIPLE CHIP GRIND (TCG) TOOTH DESIGN** with a positive hook angle for long life in production applications



**THIN KERF** requires less power and allows for faster feed rate

### DEPTH OF CUT



### MATERIALS



Proper blade height is essential to chip-free cuts. If you experience chipping on the bottom of the material, lower the blade slightly. If there is chipping on the top of the material the blade height should be increased slightly.

**THIN KERF BLADE DESIGN**

**Freud**  
INDUSTRIAL  
MADE IN ITALY  
ITEM No. LU96R010

**THIN KERF DOUBLE SIDED MELAMINE**

**10"** 5/8" Arbor  
3/32" THIN KERF  
.091" 2.3mm  
TCG  
**80T** -3° HOOK

**FOR ULTRA LONG LIFE IN LAMINATES & MELAMINES**

Rip Wood	Excellent
Crosscut Wood	Good
Chipboard	Fair
Plywood	Fair
Laminate	Excellent
Non-Ferrous	Not Recommended

**Non-Slip Perma-SHIELD Coating**

**Chip-Free One Side**

**ANTI-VIBRATION DESIGN**

**No Scoring Blade Needed**

**LU96R**



Features **TiCo™** Hi-Density Carbide Laminate Blend For Maximum Performance



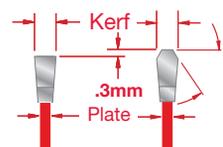
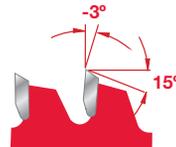
Chip-Free One Side



### RECOMMENDED USE

Rips Wood	FAIR	GOOD	EXCELLENT
Crosscuts Wood	FAIR	GOOD	EXCELLENT
Chip Board	FAIR	GOOD	EXCELLENT
Plywood	FAIR	GOOD	EXCELLENT
Melamine	FAIR	GOOD	EXCELLENT
Laminate	FAIR	GOOD	EXCELLENT
Non-ferrous	FAIR	GOOD	EXCELLENT

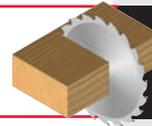
### CARBIDE GRADE



DIA.	KERF	PLATE	ARBOR	TEETH	Perma-SHIELD®
160mm	.087	.063	20mm	48 TCG	LU96R006M20*
8"	.083	.063	5/8"	64 TCG	LU96R008
10"	.091	.071	5/8"	80 TCG	LU96R010
12"	.091	.071	1"	96 TCG	LU96R012

\*Ideal for Track Saws

# Industrial Plastic Blades



# SPECIALTY BLADES

SAW BLADES



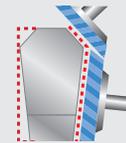
Features TiCo™ Hi-Density Carbide Specialty Blend For Maximum Performance

## USE IN



## APPLICATION

Cuts acrylics, poly-carbonates and other plastics, leaving a smooth finish without melting. By combining micrograin carbide tips with a specially modified triple chip grind these blades will give a clean smooth cut.



**MODIFIED TRIPLE CHIP GRIND (MTCG) TOOTH DESIGN** enables material to remain cool while cutting, eliminating melting

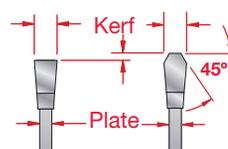
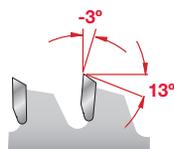


**NEGATIVE HOOK ANGLE** produces a superior finish without grabbing the material

## RECOMMENDED USE

Plexiglass	FAIR	GOOD	EXCELLENT
Plastics	FAIR	GOOD	EXCELLENT
Chip Board	FAIR	GOOD	EXCELLENT
Plywood	FAIR	GOOD	EXCELLENT
Laminate	FAIR	GOOD	EXCELLENT
Non-ferrous	FAIR	GOOD	EXCELLENT
<b>CUT QUALITY</b>	<b>FAIR</b>	<b>GOOD</b>	<b>EXCELLENT</b>

## CARBIDE GRADE



DIA.	KERF	PLATE	ARBOR	TEETH	SILVER ICE™
8"	.110	.087	5/8"	64 MTCG	LU94M008
10"	.110	.087	5/8"	80 MTCG	LU94M010
12"	.110	.087	1"	96 MTCG	LU94M012
14"	.110	.087	1"	108 MTCG	LU94M014

## DEPTH OF CUT

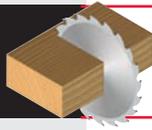


## MATERIALS



**i** For best results, set your saw so that the blade is exposed only enough that one half of a carbide tip protrudes beyond the material to be cut

# SPECIALTY BLADES



## Solid Surface Blades

### USE IN



### APPLICATION

Features teeth with a specially designed triple chip grind for leaving swirl & burn-free cuts in solid surface materials such as Dupont® Corian®, Wilsonart Gibraltar® and SSV Fountainhead®.

**LASER-CUT ANTI-VIBRATION SLOTS** drastically reduce vibration and sideways movement in the cut extending blade life, and giving a crisp, swirl-free flawless finish

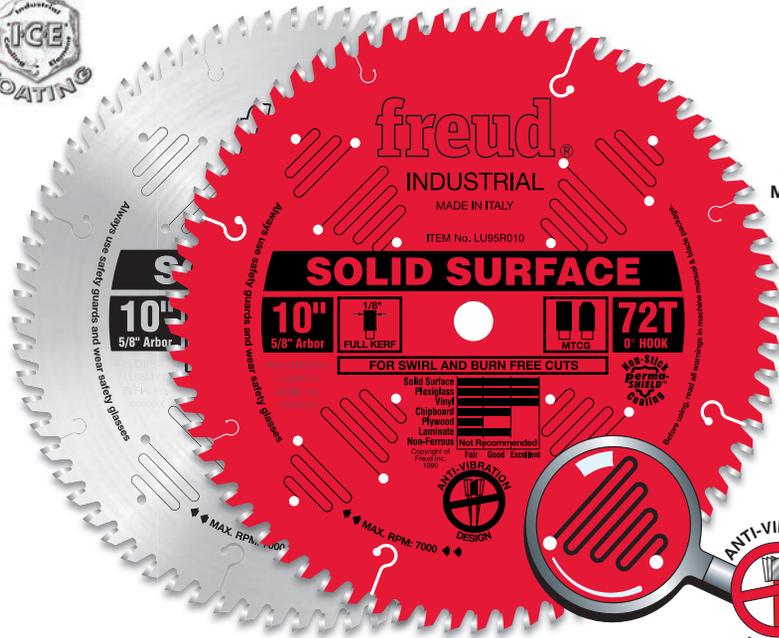
### DEPTH OF CUT



### MATERIALS



Solid Surface



LU95M

LU95R



Features TiCo™ Hi-Density Carbide Specialty Blend For Maximum Performance



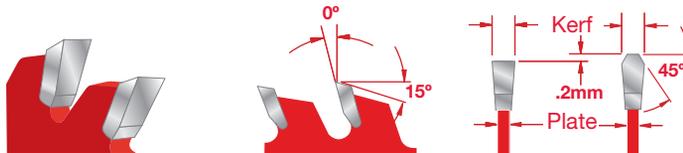
No Stabilizers Needed



### RECOMMENDED USE

Solid Surface			
Plexyglass			
Vinyl			
Chipboard			
Plywood			
Laminate			
Non-ferrous			

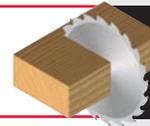
### CARBIDE GRADE



DIA.	KERF	PLATE	ARBOR	TEETH	Perma-SHIELD®	SILVER ICE™
8"	.126	.087	5/8"	60 MTCG	LU95R008	-
10"	.126	.087	5/8"	72 MTCG	LU95R010	LU95M010
12"	.126	.087	1"	84 MTCG	LU95R012	-
14"	.138	.098	1"	96 MTCG	LU95R014	-

**i** Proper blade height on a table saw is one half of the carbide tip higher than the material to be cut

# Industrial Countertop Surface Blades

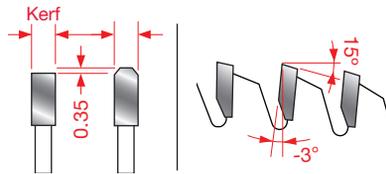


# SPECIALTY BLADES

SAW BLADES



### MTCG Grind



### USE IN



Table Saws



Vertical Panel Saws



Radial Arm Table Saws



Sliding Table Saw Panel Saws

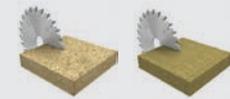
### APPLICATION

Features teeth with a specially designed triple chip grind for leaving swirl & burn-free cuts in solid surface materials such as Dupont<sup>®</sup> Corian<sup>®</sup>, Wilsonart Gibraltar<sup>®</sup> and SSV Fountainhead<sup>®</sup>.

### FEATURES

Designed for a smooth cut on HPL coated counter tops and other applications requiring a chip free cut

### MATERIALS



Chipboard

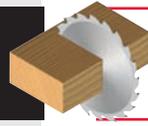
MDF



Coated Particle Board

DIA. (mm)	KERF (mm)	PLATE (mm)	ARBOR (mm)	HOOK ANGLE	TEETH/GRIND	PIN HOLES	SILVER ICE™
220	3.2 (0.126")	2.2	30	-3°	64/MTCG	2/7/42 + 2/9/46.4 + 2/10/60	LCL7M10017
254 (10")	3.2 (0.126")	2.2	1"	-3°	80/MTCG	-	LCL7M10018
250	3.2 (0.126")	2.2	30	-3°	80/MTCG	2/7/42 + 2/9/46.4 + 2/10/60	LU4D01
300	3.2 (0.126")	2.2	30	-3°	96/MTCG	2/7/42 + 2/9/46.4 + 2/10/60	LU4D02
305 (12")	3.2 (0.126")	2.2	1"	-3°	96/MTCG	-	LCL7M10022
350	3.2 (0.126")	2.2		-3°	108/MTCG		LU4D03

# SPECIALTY BLADES



## Industrial Countertop Surface Blades

CONTINUED

### USE IN

Radial Arm  
Table SawsStationary  
Table Saws

### APPLICATION

To size counter tops

### FEATURES

Designed for a smooth cut  
in laminated material and  
solid surfaces

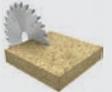
### MATERIALS



Laminate



Melamine



Chipboard

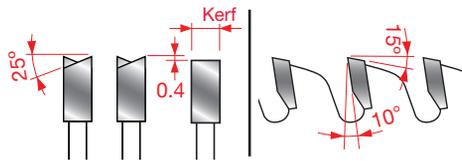


Solid Surface

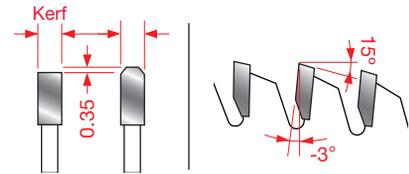


Features TiCo™  
Hi-Density Carbide  
Specialty Blend For  
Maximum Performance

#### 4+1 RAKER Grind



#### MTCG Grind



DIA. (mm)	KERF (mm)	PLATE (mm)	ARBOR (mm)	HOOK ANGLE	TEETH/ GRIND	SILVER ICE™
355mm (14")	4.4mm (0.173")	3	1"	0°	100/4+1 RKR	LCL7M10023
406mm (16")	4.4mm (0.173")	3	1"	0°	110/4+1 RKR	LCL7M10015
355mm (14")	4.4mm (0.173")	3	1"	-3°	84/MTCG	LCL7M10016
406mm (16")	4.4mm (0.173")	3	1"	-3°	100/MTCG	LCL7M10014

**FREUD INNOVATION**

# ALUMINUM SAW BLADES

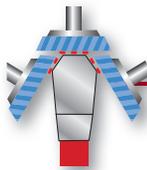
**Freud's exclusive blend of TiCo™ Hi-Density Carbide** is specifically designed for aluminum cutting applications to maximize cutting life and material finish.



**Freud's own Silver I.C.E. Coating™** reduces heat, build up and eliminates rust and corrosion to maximize the life of the blade.



**Triple Chip Grind** designed to maximize life, speed, and durability, giving burr-free cuts in aluminum cutting applications.

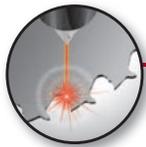


**Anti-Vibration Design** for unmatched accuracy in saw plate flatness and rigidity to eliminate movement and reduce vibration.

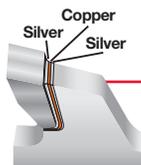


### Freud's Hi-Tolerance Precision Plate Grinding & Tensioning

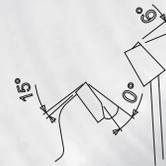
features a laser cut blade body from **48 Rockwell steel plate** (the world's highest quality steel) that remains flat and true, over the lifetime of the blade, for ultimate accuracy.



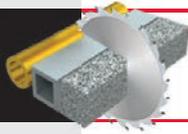
**Tri-Metal Brazing** consists of copper sandwiched between two layers of silver to create a stronger, more impact-resistant bond between the carbide and blade body.



PATENTED SYSTEMS  
**freud**®  
MADE IN ITALY



# ALUMINUM BLADES



## Medium Stock Aluminum Metal Blades

### USE IN



Table Saws

Miter Saws



Portable Table Saws

### APPLICATION

This medium stock heavy-duty, aluminum metal cutting blade produces an excellent finish. Freud recommends use of a liquid lubricant when cutting. Wax sticks are not recommended.



**Anti-Vibration Design** for unmatched accuracy in saw plate flatness and rigidity to eliminate movement and reduce vibration.



**FREUD-MADE TICO™ CARBIDE** is durable and chemical-resistant for long life and razor-sharp cuts

### WALL THICKNESS



### MATERIALS



Aluminum

Copper



Brass



Features TiCo™ Hi-Density Carbide Aluminum Blend For Maximum Performance

**MEDIUM STOCK ALUMINUM BLADE**  
FOR ALUMINUM, BRASS, COPPER, PLASTICS, & OTHER NON-FERROUS METALS

ITEM: LU77M010

MADE IN ITALY

**10" 80T**

**TCG FULL KERF**  
7/64" - 2.8mm  
0.11" -5° Hook



Rip Wood	Not Recommended
Crosscut Wood	Not Recommended
Chipboard	Not Recommended
Plywood	Not Recommended
Laminate	Not Recommended
Aluminum	Fair



Read warnings included with blade.  
Lire les avertissements incluses avec la lame.  
Lire les avertissements accompagnant la lame.

MAX. RPM: 6000  
ROTATION/ROTACION

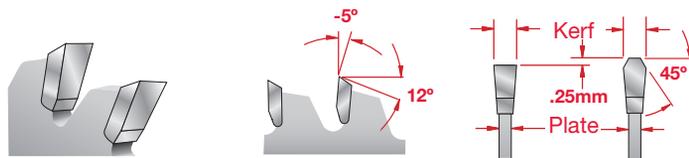


LU77M

### RECOMMENDED USE

Rips Wood			
Crosscuts Wood			
Chip Board			
Plywood			
Laminate			
Non-ferrous			
<b>CUT QUALITY</b>	FAIR	GOOD	EXCELLENT

### CARBIDE GRADE



DIA.	KERF	PLATE	ARBOR	TEETH	SILVER ICE™
8"	.091	.071	5/8"	60 TCG	LU77M008
10"	.111	.087	5/8"	80 TCG	LU77M010
12"	.111	.087	1"	96 TCG	LU77M012

# Thin Stock Aluminum Metal Blades

# ALUMINUM BLADES



LU90M



Features TiCo™  
Hi-Density Carbide  
Non-Ferrous Blend  
For Maximum  
Performance

## USE IN



Table Saws

Miter Saws



Portable  
Table Saws

## APPLICATION

Produces a smooth, burr-free finish when cutting thin aluminum, brass and other non-ferrous metal extrusions. Freud recommends use of a liquid lubricant when cutting non-ferrous materials. Wax sticks are not recommended.



**FREUD-MADE TICO™ CARBIDE** is durable and chemical-resistant for long life and razor-sharp cuts

## RECOMMENDED USE

Rips Wood			
Crosscuts Wood			
Chip Board			
Plywood			
Laminate			
Non-ferrous			
<b>CUT QUALITY</b>	FAIR	GOOD	EXCELLENT

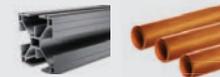
## CARBIDE GRADE



## WALL THICKNESS



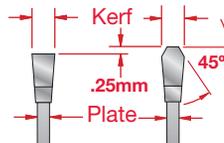
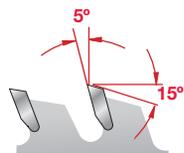
## MATERIALS



Aluminum      Copper

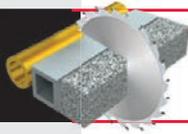


Brass



DIA.	KERF	PLATE	ARBOR	TEETH	SILVER ICE™
10"	.091	.071	5/8"	100 TCG	LU90M010
12"	.091	.071	1"	120 TCG	LU90M012

# ALUMINUM BLADES



## Thick Stock Aluminum Metal Blades

### USE IN



Table Saws

Miter Saws



Portable Table Saws

### APPLICATION

This heavy-duty, aluminum metal cutting blade produces an excellent finish. Freud recommends use of a liquid lubricant when cutting. Wax sticks are not recommended.



**Anti-Vibration Design** for unmatched accuracy in saw plate flatness and rigidity to eliminate movement and reduce vibration.



**FREUD-MADE TiCo™ CARBIDE** is durable and chemical-resistant for long life and razor-sharp cuts

### WALL THICKNESS



### MATERIALS



Aluminum

Copper



Brass



Features TiCo™ Hi-Density Carbide Aluminum Blend For Maximum Performance

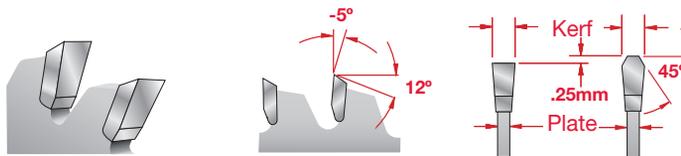


LU89M

### RECOMMENDED USE

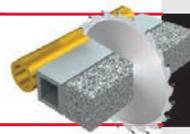
Rips Wood			
Crosscuts Wood			
Chip Board			
Plywood			
Laminate			
Non-ferrous			
<b>CUT QUALITY</b>	FAIR	GOOD	EXCELLENT

### CARBIDE GRADE



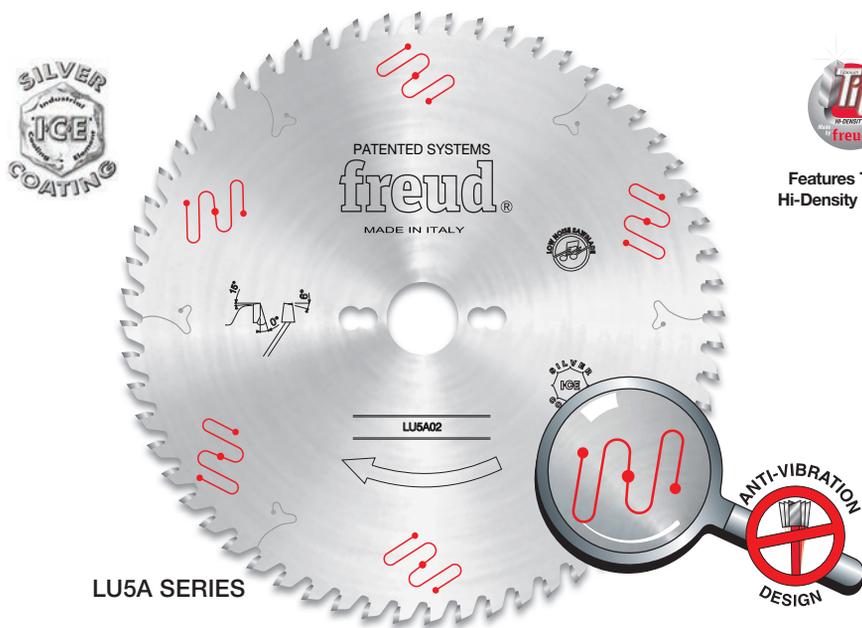
DIA.	KERF	PLATE	ARBOR	TEETH	SILVER ICE™
8"	.091	.071	5/8"	48 TCG	LU89M008
10"	.11	.087	5/8"	60 TCG	LU89M010
12"	.11	.087	1"	72 TCG	LU89M012
14"	.142	.118	1"	100 TCG	LU89M014
15"	.142	.118	1"	108 TCG	LU89M015
16"	.142	.118	1"	114 TCG	LU89M016

# Medium to Thick Aluminum & Non-Ferrous Blades with Mechanical Clamping



## ALUMINUM BLADES

SAW BLADES



Features TiCo™  
Hi-Density Carbide

### USE IN



Table Saws



Miter Saws



Vertical  
Panel Saws



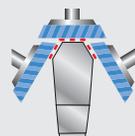
Double Miter  
Table Saws



Sliding Compound  
Miter Saws

### APPLICATION

To cut solid drawn products



**TRIPLE CHIP GRIND (TCG) TOOTH DESIGN**  
with a positive hook angle for long life in production applications



**FREUD-MADE TICo™ CARBIDE**  
is durable and chemical-resistant for long life and razor-sharp cuts

### DEPTH OF CUT



### MATERIALS



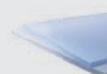
Aluminum



Copper



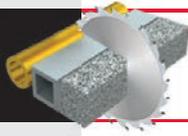
Brass



Plastic  
(Up to 1" Thick)

DIA. (mm)	KERF (mm)	PLATE (mm)	ARBOR (mm)	HOOK ANGLE	TEETH/ GRIND	PIN HOLES	SILVER ICE™
200	2.8	2	30	10°	54 TCG	-	LU5A01
250	3.5	3	30	10°	60 TCG	2/9/46.4+ 2/10/60	LU5A02
250	3.5	3	32	10°	60 TCG	2/11/63	LU5A03
275	3.5	3	40	10°	68 TCG	2/9/55+ 4/12/64	LU5A04
300	3.5	3	30	10°	72 TCG	2/9/46.4+ 2/10/60	LU5A05
300	3.5	3	32	10°	72 TCG	2/11/63	LU5A06
330	3.5	3	30	10°	84 TCG	2/9/46.4+ 2/10/60	LU5A08
330	3.5	3	32	10°	84 TCG	2/11/63	LU5A09
350	3.5	3	30	10°	84 TCG	2/9/46.4+ 2/10/60	LU5A10
350	3.5	3	32	10°	84 TCG	2/11/63	LU5A11
350	3.5	3	40	10°	84 TCG	2/9/55+ 4/12/64	LU5A12
370	3.5	3	30	10°	90 TCG	-	LU5A13
370	3.5	3	50	10°	90 TCG	4/15/80	LU5A14
400	3.5	3	30	10°	96 TCG	2/11/63	LU5A16
400	3.5	3	32	10°	96 TCG	2/11/63	LU5A17
400	3.5	3	40	10°	96 TCG	2/12/64+ 2/15/80	LU5A18
400	3.5	3	50	10°	96 TCG	4/15/80	LU5A19
420	3.5	3	30	10°	96 TCG	2/11/70	LU5A20
450	4	3.2	30	10°	108 TCG	2/11/63	LU5A21
450	4	3.2	32	10°	108 TCG	2/11/64	LU5A22
450	4	3.2	40	10°	108 TCG	2/12/64+ 2/15/80	LU5A23
450	4	3.2	50	10°	108 TCG	4/15/80	LU5A24
500	4	3.2	30	10°	120 TCG	2/10.5/70	LU5A25
500	4	3.2	32	10°	120 TCG	2/11/63	LU5A26
500	4	3.2	50	10°	120 TCG	4/15/80	LU5A27
530	4.2	3.5	30	10°	126 TCG	1/10.5/70	LU5A28
550	4.2	3.5	30	10°	132 TCG	1/10.5/70	LU5A29

# ALUMINUM BLADES



## Thin to Medium Aluminum & Non-Ferrous Blades with Mechanical Clamping

### USE IN



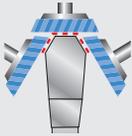
Table Saws

Miter Saws

Vertical  
Panel SawsDouble Miter  
Table SawsSliding Compound  
Miter Saws

### APPLICATION

To cut solid drawn products.



**TRIPLE CHIP GRIND (TCG) TOOTH DESIGN** with a positive hook angle for long life in production applications



**FREUD-MADE TiCo™ CARBIDE** is durable and chemical-resistant for long life and razor-sharp cuts

### DEPTH OF CUT



### MATERIALS



Aluminum

Copper

Brass

Plastic  
(Up to 1" Thick)

LU5B SERIES

Features TiCo™  
Hi-Density Carbide

DIA. (mm)	KERF (mm)	PLATE (mm)	ARBOR (mm)	HOOK ANGLE	TEETH/ GRIND	PIN HOLES	SILVER ICE™
200	2.8	2.2	30	5°	64 TCG	-	LU5B01
250	3.5	3	30	5°	80 TCG	2/9/46.4+ 2/10/60	LU5B02
250	3.5	3	32	5°	80 TCG	2/11/63	LU5B03
275	3.5	3	40	5°	84 TCG	2/9/55+ 4/12/64	LU5B04
300	3.5	3	30	5°	88 TCG	2/9/46.4+ 2/10/60	LU5B05
300	3.5	3	32	5°	88 TCG	2/11/63	LU5B06
300	3.5	3	40	5°	88 TCG	2/9/55+ 4/12/64	LU5B07
300	3.5	3	32	5°	96 TCG	2/11/63	LU5B09
300	3.5	3	40	5°	96 TCG	2/9/55+ 4/12/64	LU5B10
330	3.5	3	30	5°	104 TCG	2/9/46.4+ 2/10/60	LU5B11
330	3.5	3	30	5°	104 TCG	2/11/63	LU5B12
350	3.5	3	30	5°	96 TCG	9/46.4+ 2/10/60	LU5B13
350	3.5	3	32	5°	96 TCG	2/11/63	LU5B14
350	3.5	3	40	5°	96 TCG	2/9/55+ 4/12/64	LU5B15
350	3.5	3	30	5°	108 TCG	2/9/46.4+ 2/10/60	LU5B16
350	3.5	3	32	5°	108 TCG	2/11/63	LU5B17
350	3.5	3	40	5°	108 TCG	2/9/55+ 4/12/64	LU5B18
370	3.5	3	30	5°	112 TCG	-	LU5B19
370	3.5	3	50	5°	112 TCG	4/15/80	LU5B20

# Thin to Medium Aluminum & Non-Ferrous Blades with Mechanical Clamping



## ALUMINUM BLADES

SAW BLADES

CONTINUED

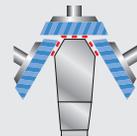
DIA. (mm)	KERF (mm)	PLATE (mm)	ARBOR (mm)	HOOK ANGLE	TEETH/ GRIND	PIN HOLES	SILVER ICE™
380	3.5	3	32	5°	112 TCG	2/11/63	LU5B21
400	3.5	3	30	5°	120 TCG	2/11/63	LU5B22
400	3.5	3	32	5°	120 TCG	2/11/63	LU5B23
400	3.5	3	40	5°	120 TCG	2/12/64+ 2/15/80	LU5B24
400	3.5	3	50	5°	128 TCG	4/15/80	LU5B25
420	3.5	3	30	5°	128 TCG	2/11/70	LU5B26
450	4	3.2	30	5°	128 TCG	-	LU5B27
450	4	3.2	32	5°	128 TCG	2/11/63	LU5B28
500	4	3.2	30	5°	140 TCG	2/10.5/70	LU5B3100
500	4	3.2	32	5°	140 TCG	2/11/63	LU5B32
550	4.2	3.5	30	5°	148 TCG	2/11/63	LU5B3500
550	4.2	3.5	1"	5°	148 TCG	2/11/63	LU5B3501
22"	4.2	3.5	1"	5°	96 TCG	-	LU5B3571
22"	4.2	3.5	1"	5°	120 TCG	-	LU5B3572
600	4.8	3.8	30	5°	156 TCG	-	LU5B3600
600	4.8	3.8	30	5°	108 TCG	-	LU5B3601
24	4.8	3.8	1"	5°	96 TCG	-	LU5B3671
24	4.8	3.8	1"	5°	120 TCG	-	LU5B3672
550	4.2	3.5	32	5°	32 TCG	2/11/63	LU5B38

### USE IN



### APPLICATION

To cut solid drawn products



**TRIPLE CHIP GRIND (TCG) TOOTH DESIGN** with a positive hook angle for long life in production applications



**FREUD-MADE TICo™ CARBIDE** is durable and chemical-resistant for long life and razor-sharp cuts

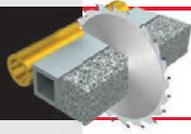
### DEPTH OF CUT



### MATERIALS



# ALUMINUM BLADES



## Medium to Thick Aluminum & Non-Ferrous Blades With or Without Mechanical Clamping

### USE IN



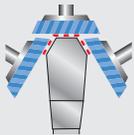
Features TiCo™ Hi-Density Carbide



LU5C SERIES

### APPLICATION

To cut solid drawn products



**TRIPLE CHIP GRIND (TCG) TOOTH DESIGN** with a positive hook angle for long life in production applications



**FREUD-MADE TiCo™ CARBIDE** is durable and chemical-resistant for long life and razor-sharp cuts

### DEPTH OF CUT

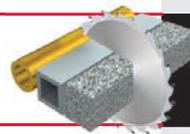


### MATERIALS



DIA. (mm)	KERF (mm)	PLATE (mm)	ARBOR (mm)	HOOK ANGLE	TEETH/GRIND	PIN HOLES	SILVER ICE™
180	2.8	2.2	20	-6°	42 TCG	-	LU5C01
180	2.8	2.2	30	-6°	42 TCG	-	LU5C02
200	2.8	2.2	30	-6°	48 TCG	-	LU5C03
250	3.5	3	30	-6°	54 TCG	-	LU5C04
275	3.5	3	40	-6°	60 TCG	-	LU5C06
300	3.5	3	30	-6°	72 TCG	2/9/46.4+ 2/10/60	LU5C07
12"	3.5	3	1"	-6°	72 TCG	-	LU5C0770
12"	3.5	3	5/8"	-6°	72 TCG	-	LU5C0771
300	3.5	3	32	-6°	72 TCG	2/11/63	LU5C08
300	3.5	3	40	-6°	72 TCG	2/9/55+ 4/12/64	LU5C09
330	3.5	3	30	-6°	80 TCG	-	LU5C10
330	3.5	3	32	-6°	80 TCG	2/11/63	LU5C11
350	3.5	3	30	-6°	84 TCG	2/9/46.4+ 2/10/60	LU5C12
14"	3.5	3	30	-6°	84 TCG	-	LU5C1270
350	3.5	3	32	-6°	84 TCG	2/11/63	LU5C13
350	3.5	3	40	-6°	84 TCG	2/9/55+ 4/12/64	LU5C14
370	3.5	3	30	-6°	90 TCG	-	LU5C15
370	3.5	3	50	-6°	90 TCG	4/15/80	LU5C16
380	3.5	3	32	-6°	96 TCG	2/11/63	LU5C17
15"	3.5	3	1"	-6°	96 TCG	-	LU5C1770
400	3.5	3	30	-6°	96 TCG	2/11/70	LU5C18
16"	3.5	3	1"	-6°	96 TCG	-	LU5C1870
400	3.5	3	32	-6°	96 TCG	2/11/63	LU5C19
400	3.5	3	40	-6°	96 TCG	2/15/80+ 2/12/64	LU5C20
400	3.5	3	50	-6°	96 TCG	4/15/80	LU5C21
420	4	3.2	30	-6°	96 TCG	2/11/70	LU5C22
420	4	3.2	40	-6°	96 TCG	-	LU5C23
450	4	3.2	30	-6°	108 TCG	-	LU5C24
450	4.5	3.2	1"	-6°	108 TCG	-	LU5C2401
18"	4.5	3.2	1"	-6°	108 TCG	-	LU5C2470
450	4	3.2	32	-6°	108 TCG	2/11/63	LU5C25
450	4	3.2	40	-6°	108 TCG	2/15/80+ 2/12/64	LU5C26
450	4	3.2	50	-6°	108 TCG	4/15/80	LU5C27
500	4	3.2	30	-6°	120 TCG	-	LU5C28
20"	44	3.2	1"	-6°	120 TCG	-	LU5C2870
500	4	3.2	32	-6°	120 TCG	2/11/63	LU5C29

# Medium Aluminum & Non-Ferrous Blades With or Without Mechanical Clamping



## ALUMINUM BLADES

SAW BLADES



LU5D SERIES



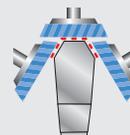
Features TiCo™  
Hi-Density Carbide

### USE IN



### APPLICATION

To cut solid drawn products



**TRIPLE CHIP GRIND (TCG) TOOTH DESIGN**  
with a positive hook angle for long life in production applications



**FREUD-MADE TICO™ CARBIDE**  
is durable and chemical-resistant for long life and razor-sharp cuts

### DEPTH OF CUT

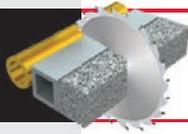


### MATERIALS



DIA. (mm)	KERF (mm)	PLATE (mm)	ARBOR (mm)	HOOK ANGLE	TEETH/ GRIND	PIN HOLES	SILVER ICE™
160	2.8	2.2	20	-6°	42 TCG	-	LU5D01
190	2.8	2.2	30	-6°	54 TCG	-	LU5D02
200	2.8	2.2	30	-6°	60 TCG	-	LU5D03
210	2.8	2.2	30	-6°	60 TCG	-	LU5D04
216	2.8	2.2	30	-6°	60 TCG	-	LU5D05
220	3	2.5	30	-6°	64 TCG	9/46.4+ 2/10/60	LU5D06
230	3	2.5	30	-6°	64 TCG	-	LU5D07
250	3.5	3	30	-6°	80 TCG	9/46.4+ 2/10/60	LU5D08
10"	3.5	3	5/8"	-6°	80 TCG	-	LU5D0870
250	3.5	3	32	-6°	80 TCG	2/11/63	LU5D09
250	3.5	3	40	-6°	80 TCG	2/9/55+ 4/12/64	LU5D10
275	3.5	3	40	-6°	84 TCG	2/9/55+ 4/12/64	LU5D11
300	3.5	3	30	-6°	96 TCG	2/9/46.4+ 2/10/60	LU5D12
12"	3.5	3	1"	-6°	96 TCG	-	LU5D1270
12"	3.5	3	5/8"	-6°	96 TCG	-	LU5D1271
300	3.5	3	32	-6°	96 TCG	2/11/63	LU5D13
300	3.5	3	40	-6°	96 TCG	2/9/55+ 4/12/64	LU5D14
330	3.5	3	30	-6°	104 TCG	2/9/46.4+ 2/10/60	LU5D15
330	3.5	3	32	-6°	104 TCG	2/11/63	LU5D16
350	3.5	3	30	-6°	108 TCG	2/9/46.4+ 2/10/60	LU5D17
14"	3.5	3	1"	-6°	108 TCG	-	LU5D1770
14"	3.5	3	5/8"	-6°	108 TCG	PISTORIUS	LU5D1771
350	3.5	3	32	-6°	108 TCG	2/11/63	LU5D18
350	3.5	3	40	-6°	108 TCG	2/9/55+ 4/12/64	LU5D19
370	3.5	3	30	-6°	108 TCG	-	LU5D20

# ALUMINUM BLADES



## Medium Aluminum & Non-Ferrous Blades With or Without Mechanical Clamping

### USE IN



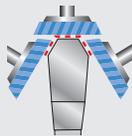
Table Saws

Miter Saws

Vertical  
Panel SawsDouble Miter  
Table SawsSliding Compound  
Miter Saws

### APPLICATION

To cut solid drawn products



**TRIPLE CHIP  
GRIND (TCG)  
TOOTH DESIGN**  
with a positive  
hook angle for long  
life in production  
applications



**FREUD-MADE  
TICO™ CARBIDE**  
is durable and  
chemical-resistant  
for long life and  
razor-sharp cuts

### DEPTH OF CUT



### MATERIALS



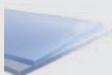
Aluminum



Copper



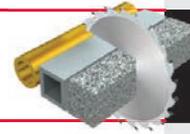
Brass

Plastic  
(Up to 1" Thick)

### CONTINUED

DIA. (mm)	KERF (mm)	PLATE (mm)	ARBOR (mm)	HOOK ANGLE	TEETH/ GRIND	PIN HOLES	SILVER ICE™
380	3.5	3	32	-6°	108 TCG	2/11/63	LU5D22
400	3.5	3	30	-6°	120 TCG	-	LU5D23
16'	3.5	3	1"	-6°	120 TCG	-	LU5D2370
400	3.5	3	32	-6°	120 TCG	2/11/63	LU5D24
400	3.5	3	40	-6°	120 TCG	2/15/80+ 2/12/64	LU5D25
400	3.5	3	50	-6°	120 TCG	4/15/80	LU5D26
420	4	3.2	30	-6°	120 TCG	2/11/70	LU5D27
420	4	3.2	40	-6°	120 TCG	-	LU5D28
450	4	3.2	30	-6°	128 TCG	-	LU5D29
18"	4	3.2	1"	-6°	128 TCG	-	LU5D2970
500	4	3.2	32	-6°	140 TCG	2/11/63	LU5D34
20"	4	3.2	1"	-6°	140 TCG	-	LU5D3470

# Ultra-Thin Aluminum & Non-Ferrous Blades With Mechanical Clamping



# ALUMINUM BLADES

SAW BLADES



LU5E SERIES



Features TiCo™  
Hi-Density Carbide

## USE IN



Table Saws



Miter Saws



Vertical  
Panel Saws



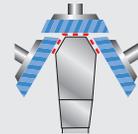
Double Miter  
Table Saws



Sliding Compound  
Miter Saws

## APPLICATION

To cut solid drawn products



**TRIPLE CHIP GRIND (TCG) TOOTH DESIGN** with a positive hook angle for long life in production applications



**FREUD-MADE TICo™ CARBIDE** is durable and chemical-resistant for long life and razor-sharp cuts

## DEPTH OF CUT



## MATERIALS



Aluminum



Copper



Brass

DIA. (mm)	KERF (mm)	PLATE (mm)	ARBOR (mm)	HOOK ANGLE	TEETH/ GRIND	PIN HOLES	SILVER ICE™
250	2.8	2.2	2X	5°	100 TCG	2/7/42+ 2/9/46.4+ 2/10/60	LU5E01
250	2.8	2.2	2X	5°	100 TCG	2/11/63	LU5E02
255	2.8	2.2	2X	5°	100 TCG	–	LU5E03
10"	2.8	2.2	2X	5°	100 TCG	–	LU5E0370
255	2.8	2.2	2X	5°	120 TCG	–	LU5E04
300	3	2.5	30	5°	100 TCG	2/9/46.4+ 2/10/60	LU5E05
305	3	2.5	1"	5°	120 TCG	–	LU5E06
300	3	2.5	30	5°	120 TCG	2/9/46.4+ 2/10/60	LU5E07
12"	3	2.2	1"	5°	120 TCG	–	LU5E0770
12"	3	2.2	5/8"	5°	120 TCG	– PISTORIUS	LU5E0771
300	3	2.5	32	5°	120 TCG	2/11/63	LU5E08
350	3	2.5	30	5°	100 TCG	2/9/46.4+ 2/10/60	LU5E09
350	3	2.5	32	5°	100 TCG	2/11/63	LU5E10
350	3	2.5	30	5°	120 TCG	2/9/46.4+ 2/10/60	LU5E11
14"	3	2.5	1"	5°	120 TCG	–	LU5E1170
14"	3	2.5	5/8"	5°	120 TCG	PISTORIUS	LU5E1171
350	3	2.5	32	5°	120 TCG	2/11/63	LU5E12

# RIPPING BLADES

## Industrial Ripping Blades

### USE IN



Gang Rip

### APPLICATION

For gang ripping

### FEATURES

TCG Grind for smooth glue line ready edge and a positive hook angle for fast cutting

### MATERIALS



Hardwood

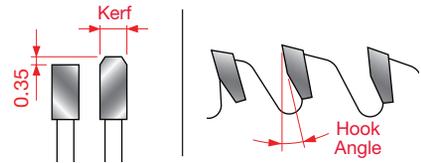
Softwood



Features TiCo™  
Hi-Density Carbide

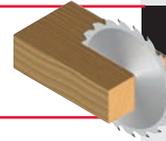


TCG Grind



DIA. (mm)	KERF (mm)	PLATE (mm)	ARBOR (mm)	HOOK ANGLE	TEETH/ GRIND	PIN HOLES	ITEM NUMBER
300	3.4 (0.134")	2.2	80	20°	36/TCG	2/13/100+4/6.6/95+ DKW 18.5x4.0	LCL7M10038
300	4.2 (0.165")	3	80	18°	36/TCG	2/13/100+4/6.6/95+ DKW 18.5x4.0	LCL7M10072
300	2.8 (0.110")	2	80	18°	36/TCG	2/13/100+4/6.6/95+ DKW 18.5x4.0	LCL7M10073
300	4.2 (0.165")	3	80	18°	48/TCG	2/13/100+4/6.6/95+ DKW 18.5x4.0	LCL7M10074
300	2.8 (0.110")	2	80	18°	48/TCG	2/13/100+4/6.6/95+ DKW 18.5x4.0	LCL7M10075
305 (12")	3.2 (0.126")	2.2	1'	20°	36/TCG	-	LCL7M10004
305 (12")	3.2 (0.126")	2.2	3-1/8"	20°	36/TCG	DKW 6.75x3.573, DKW 13x7	LCL7M10005
305 (12")	4.06 (0.160")	2.8	3-1/8"	20°	36/TCG	DKW 6.75x3.573, DKW 13x8	LCL7M10007
305 (12")	4.06 (0.160")	2.8	70	20°	36/TCG	DKW 21x5	LCL7M10008
305 (12")	4.06 (0.160")	2.8	1"	20°	36/TCG	-	LCL7M10012
355 (14")	4.3 (0.169")	3	2"	20°	36/TCG	1-9/16"/5	LCL7M10009
355 (14")	4.3 (0.169")	3	3-1/8"	20°	36/TCG	DKW 6.75x3.573, DKW 13x7	LCL7M10010
355 (14")	4.3 (0.169")	3	70	20°	36/TCG	DKW 21x5	LCL7M10011
355 (14")	4.3 (0.169")	3	1"	20°	36/TCG	2/13/100+4/6.6/94.6 ch 2 18.5x4.0	LCL7M10013

# Pallet and Lumber Ripping Blades



## RIPPING BLADES

SAW BLADES



### USE IN



Gang Rip or Pallet Machine

### APPLICATION

Pallet and lumber ripping

### FEATURES

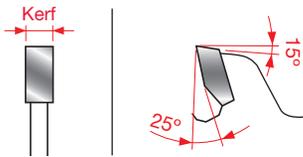
Flat Grind for smooth cuts and an aggressive hook angle for fast cutting. Single and double strobes for decreased binding and blade tracking.

### MATERIALS



Hardwood      Softwood

### FLAT Grind



DIA. (mm)	KERF (mm)	PLATE (mm)	ARBOR (mm)	HOOK ANGLE	TEETH/ GRIND	PIN HOLES	ITEM NUMBER
254 (10")	3.2 (0.126")	2.2	2-3/8"	25°	10/FLAT	DKW with Strobes	LCL7M10052
254 (10")	3.2 (0.126")	2.2	2-15/16"	25°	10/FLAT	DKW with Strobes	LCL7M10067
254 (10")	4 (0.157")	2.5	2-3/8"	25°	10/FLAT	DKW with Strobes	LCL7M10056
254 (10")	4 (0.157")	2.5	2 -15/16"	25°	10/FLAT	DKW with Strobes	LCL7M10068
305 (12")	3.2 (0.126")	2.2	2-3/8"	25°	12/FLAT	DKW with Strobes	LCL7M10057
305 (12")	3.2 (0.126")	2.2	2 -15/16"	25°	12/FLAT	DKW with Strobes	LCL7M10069
305 (12")	3.2 (0.126")	2.2	2"	25°	12/FLAT	DKW with Strobes	LCL7M10059
305 (12")	4 (0.157")	2.5	2-3/8"	25°	12/FLAT	DKW with Strobes	LCL7M10058
305 (12")	4 (0.157")	2.5	2 -15/16"	25°	12/FLAT	DKW with Strobes	LCL7M10070
355 (14")	3.5 (0.138")	2.5	2-3/8"	25°	16/FLAT	DKW with Strobes	LCL7M10060
355 (14")	3.5 (0.138")	2.5	2"	25°	16/FLAT	DKW with Strobes	LCL7M10061

# CROSSCUTTING BLADES



## Industrial Crosscutting Blades

### USE IN



Miter Saws

Radial Arm Table Saws



Double Miter Table Saws

### APPLICATION

To crosscut in industrial applications

### FEATURES

Specialty grind design specific for flawless, chip free cutting

### MATERIALS



Hardwood

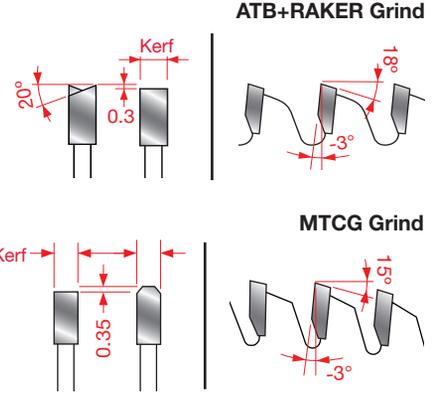
Softwood



Coated & Non-coated Frames



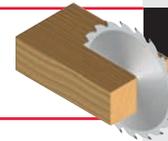
Features TiCo™ Hi-Density Carbide



DIA. (mm)	KERF (mm)	PLATE (mm)	ARBOR (mm)	HOOK ANGLE	TEETH/GRIND	ITEM NUMBER
305 (12")	3.0 (.118")	2.5 (.098")	15.88 (5/8")	-3°	108/MTCG	LCL12108NFP*
305 (12")	3.2 (.126")	2.2 (.087")	15.88 (5/8")	10°	100/4+1 RKR	LCL7M10045
350 (12")	3.4 (.134")	2.5 (.098")	15.88 (5/8")	10°	100/4+1 RKR	LCL7M10047

\* Aluminum Blade

## Adjustable Scoring Blades



# SCORING BLADES

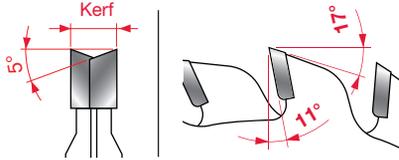
SAW BLADES



Features TiCo™  
Hi-Density Carbide



### ATB Grind



### USE IN



Sliding Table Saws

### APPLICATION

To score the coating on  
bilaminated panels

### FEATURES

ATB tooth 5° with positive  
cutting angle

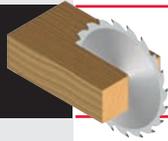
### MATERIALS



Double sided  
chipboard

DIA. (mm)	KERF (mm)	ARBOR (mm)	HOOK ANGLE	TEETH/ GRIND	PIN HOLES	ITEM NUMBER
120	2.8-3.6	20	11°	12+12 Split Score	-	LI16MAA3
120	2.8-3.6	22	11°	12+12 Split Score	-	LI16MAB3
120	2.8-3.6	3/4"	11°	12+12 Split Score	-	LI16MAC3
100	2.8-3.6	20	11°	12+12 Split Score	-	LI16MBA3
100	2.8-3.6	22	11°	12+12 Split Score	-	LI16MBB3
100	2.8-3.6	3/4"	11°	12+12 Split Score	-	LI16MBC3
105	2.8-3.6	20	11°	10+10 Split Score	-	LI16MCA3
125	2.8-3.6	20	11°	14+14 Split Score	-	LI16MEA3
125	2.8-3.6	22	11°	14+14 Split Score	-	LI16MEB3
125	2.8-3.6	20	11°	12+12 Split Score	-	LI16MFA3
80	2.8-3.6	20	11°	12+12 Split Score	-	LI16MGA3
80	2.8-3.6	20	11°	10+10 Split Score	-	LI16MHA3
180	4.0-5.0	20	11°	20+20 Split Score	-	LI16MMA3
180	4.4-5.6	45	11°	20+20 Split Score	-	LI16MNE3
120	2.8-3.6	50	11°	12+12 Split Score	Shimless (for RAPIDO)	LI16MPF3
120	2.8-3.6	50	11°	12+12 Split Score	-	LI16MRF3

# SCORING BLADES



## Conical Scoring Blades

### USE IN



Horizontal  
Beam Saws

### APPLICATION

To score the coating on  
bilaminated panels

### FEATURES

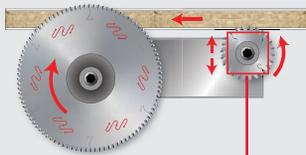
ATB 6° tooth with positive  
cutting angle

### MATERIALS



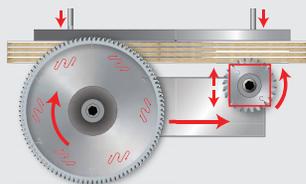
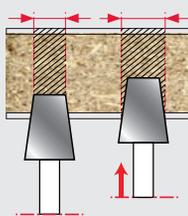
Double sided  
chipboard

MDF  
chipboard



Min. Kerf  
of the  
scorer  
blade

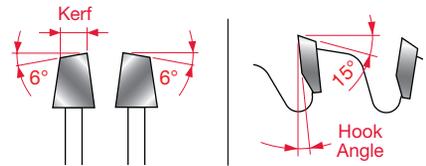
Max. Kerf  
of the  
scorer  
blade



Features TiCo™  
Hi-Density Carbide

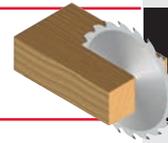


### CONICAL + ATB Grind



DIA. (mm)	KERF (mm)	PLATE (mm)	ARBOR (mm)	HOOK ANGLE	TEETH/ GRIND	PIN HOLES	ITEM NUMBER
80	3.1-4.3	2.2	20	0°	12/Conical	-	LI25M31AA3
80	3.1-4.3	2.2	22	0°	12/Conical	-	LI25M31AB3
100	3.1-4.3	2.2	20	0°	24/Conical	-	LI25M31BA3
100	3.1-4.3	2.5	22	0°	24/Conical	-	LI25M31BB3
115	3.1-4.3	2.5	20	0°	24/Conical	-	LI25M31DA3
120	2.8-4.0	2.2	20	0°	24/Conical	-	LI25M28EA3
120	3.1-4.3	2.2	20	0°	24/Conical	-	LI25M31EA3
120	3.4-4.6	2.2	20	0°	24/Conical	-	LI25M34EA3
120	2.8-4.0	2.2	22	0°	24/Conical	-	LI25M28EB3
120	3.1-4.3	2.2	22	0°	24/Conical	-	LI25M31EB3
125	3.1-4.3	2.2	20	0°	24/Conical	-	LI25M31FA3
125	3.4-4.6	2.2	20	0°	24/Conical	-	LI25M34FA3
125	3.1-4.3	2.2	20	0°	24/Conical	-	LI25M43FA3
125	3.4-4.6	2.2	22	0°	24/Conical	-	LI25M31FB3
125	3.4-4.6	2.2	45	0°	24/Conical	-	LI25M34FE3
125	4.3-5.5	3.2	45	0°	24/Conical	-	LI25M43FE3
125	4.5-5.7	3	45	0°	24/Conical	-	LI25M45FE3
140	3.1-4.3	2.2	16	8°	28/Conical	-	LI25M31HM3
140	3.4-4.7	3	45	8°	24/Conical	-	LI25M34HE3
140	4.3-5.5	3.2	45	8°	28/Conical	-	LI25M34HE3
150	3.1-4.3	2.2	30	8°	36/Conical	-	LI25M31KC3
150	3.4-4.7	2.2	30	8°	36/Conical	-	LI25M34KC3
150	4.3-5.6	3.2	30	8°	36/Conical	-	LI25M43KC3
150	4.3-5.5	3.2	45	8°	36/Conical	-	LI25M43KE3
150	4.5-5.8	3	45	8°	36/Conical	-	LI25M45KE3
160	3.1-4.3	2.2	20	8°	36/Conical	-	LI25M31LA3

# Conical Scoring Blades



## SCORING BLADES

CONTINUED

DIA. (mm)	KERF (mm)	PLATE (mm)	ARBOR (mm)	HOOK ANGLE	TEETH/ GRIND	PIN HOLES	ITEM NUMBER
160	4.3-5.6	3.2	30	8°	36/Conical	-	LI25M43LC3
160	4.3-5.5	3.2	45	8°	36/Conical	3/1170	LI25M43LE3
160	4.3-5.5	3.2	55	8°	36/Conical	3/6/84+3/7/66	LI25M43LG3
160	4.3-5.7	3	55	8°	36/Conical	3/7/66+3/9/84	LI25M45LG3
160	4.3-5.5	3.2	60	8°	36/Conical	3/7/80	LI25M43LH3
160	5.1-6.3	3.5	60	8°	36/Conical	5/7/80	LI25M51LH3
160	3.1-4.6	2.2	1"	8°	36/Conical	-	LI25M34LR3
180	4.3-5.5	3.2	20	8°	28/Conical	-	LI25M43NA3
180	5.7-6.9	4	20	8°	36/Conical	-	LI25M57NA3
180	4.3-5.5	3.2	30	8°	28/Conical	2/7/42+2/10/60	LI25M43NC3
180	4.3-5.5	3.2	30	8°	36/Conical	2/10/60+2/7/42	LI25M43XN3
180	4.3-5.5	3.2	45	8°	36/Conical	-	LI25M43NE3
180	4.7-5.9	3.5	45	8°	36/Conical	-	LI25M47NE3
180	4.3-5.5	3.2	50	8°	36/Conical	3/13/80	LI25M43NF3
180	5.1-6.3	3.5	55	8°	36/Conical	3/7/66	LI25M51NG3
180	3.4-4.6	2.2	1"	8°	36/Conical	-	LI25M34NR3
200	4.3-5.5	3.2	20	8°	36/Conical	-	LI25M43PA3
200	4.7-5.9	3.5	20	8°	36/Conical	-	LI25M47PA3
200	5.4-6.6	3.8	20	8°	36/Conical	-	LI25M54PA3
200	6.1-7.3	4.2	20	8°	36/Conical	-	LI25M61PA3
200	4.3-5.5	3.2	22	8°	36/Conical	-	LI25M43PB3
200	4.3-5.5	3.2	30	8°	36/Conical	2/9/60+2/10/60	LI25M43PC3
200	4.7-5.9	3.5	30	8°	36/Conical	2/9/60	LI25M47PC3
200	4.3-5.5	3.2	45	8°	36/Conical	-	LI25M43PE3
200	4.7-5.9	3.5	45	8°	36/Conical	-	LI25M47PE3
200	5.7-6.9	4	45	8°	36/Conical	-	LI25M57PE3
200	6.1-7.3	4.2	45	8°	36/Conical	-	LI25M61PE3
200	4.3-5.5	3.2	50	8°	36/Conical	2/7/80+3/13/80	LI25M43PF3
200	4.3-5.5	3.2	65	8°	36/Conical	2/9/100+2/9/110	LI25M43PI3
200	4.5-5.7	3	65	8°	36/Conical	2/8.5/110	LI25M45PI3
200	4.7-5.9	3.5	65	8°	36/Conical	2/9/100+2/9/110	LI25M47PI3
200	4.3-5.5	3.2	80	8°	36/Conical	2/14/110	LI25M43PL3
215	4.3-5.5	3.2	50	8°	42/Conical	2/7/80+3/15/80	LI25M43QF3
215	4.5-5.7	3.2	50	8°	42/Conical	3/15/80	LI25M45PF3
215	4.7-5.9	3.5	50	8°	42/Conical		LI25M47QF3
220	4.7-5.9	20	20	8°	36/Conical		LI25M47UA3
220	6.3-7.5	4.4	20	8°	36/Conical	-	LI25M63UA3
250	4.3-5.5	3.2	30	8°	54/Conical	2/10/1960	LI25M43OC3
250	4.3-5.5	3.2	50	6°	48/Conical	3/13/1980	LI25M43OF3
300	4.3-5.5	3.2	30	6°	48/Conical	2/11/1975	LI25M43RC3
300	4.3-5.5	3.2	50	12°	48/Conical	3/15/80	LI25M43RM3
300	4.3-5.5	3.2	65	12°	72/Conical	2/9/110	LI25M43RI3
300	4.3-5.5	3.2	80	12°	72/Conical	2/14/110	LI25M43RL3
320	4.3-5.5	3	45	12°	48/Conical	-	LI25M43SE3
340	4.7-5.9	3.5	45	8°	72/Conical	3/14/65	LI25M47TE3

### USE IN



Horizontal Beam Saws

### APPLICATION

To score the coating on bilaminated panels

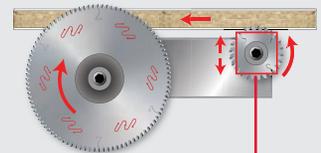
### FEATURES

ATB 6° tooth with positive cutting angle

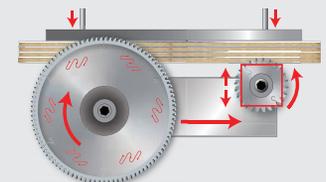
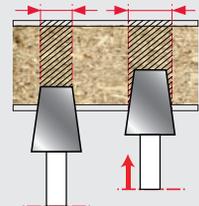
### MATERIALS



Double sided chipboard MDF chipboard



Min. Kerf of the scorer blade  
Max. Kerf of the scorer blade



# PCD SCORING BLADES

## USE IN



Horizontal  
Beam Saws

## APPLICATION

To score the coating on  
bilaminated panels –  
extreme longer lifetime

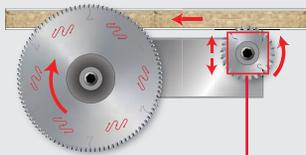
## FEATURES

Polycrystalline Diamond  
flat tooth with positive  
cutting angle

## MATERIALS

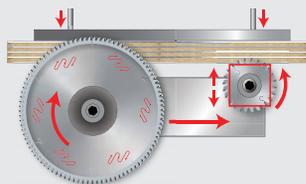
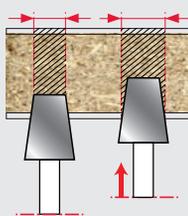


Double sided  
chipboard      MDF



Min. Kerf  
of the  
scorer  
blade

Max. Kerf  
of the  
scorer  
blade



# Polycrystalline Diamond Conical Scoring Blades

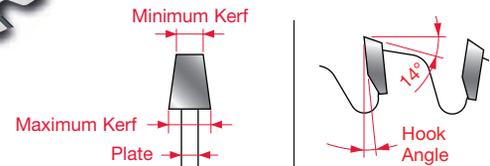
**NEW**



DLI25M



## CONICAL + PCD Tip



### POLYCRYSTALLINE DIAMOND CONICAL SCORING SAW BLADE H4

For each 1mm height displacement the cut becomes 0.2mm wider

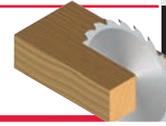
DIA. (mm)	KERF RANGE (mm)	PLATE (mm)	ARBOR (mm)	HOOK ANGLE	TEETH	MACHINES	ITEM NUMBER
120	2.8-3.6	2.2	20	6°	24/Conical	Schelling	DLI25M28EAH4
120	2.8-3.6	2.2	22	6°	24/Conical		DLI25M28EBH4
120	3.1-3.9	2.2	20	6°	24/Conical		DLI25M31EAH4
125	3.1-3.9	2.2	20	6°	24/Conical	Panhans Schelling	DLI25M31FAH4
180	4.3-5.1	3.2	45	6°	30/Conical	Holzma	DLI25M43NEH4
180	4.7-5.5	3.5	45	6°	30/Conical	Holzma	DLI25M47NEH4
200	4.3-5.1	3.2	65	6°	36/Conical	Selco	DLI25M43PIH4
200	4.3-5.1	3.2	80	6°	36/Conical	Gabbiani	DLI25M43PLH4
200	4.7-5.5	3.5	45	6°	36/Conical	Holzma	DLI25M47PEH4
200	4.7-5.5	3.5	65	6°	36/Conical	Selco	DLI25M47PIH4
215	4.3-5.1	3.2	50	6°	42/Conical	Giben	DLI25M43QFH4

### POLYCRYSTALLINE DIAMOND CONICAL SCORING SAW BLADE H6

For each 1mm height displacement the cut becomes 0.15mm wider

DIA. (mm)	KERF RANGE (mm)	PLATE (mm)	ARBOR (mm)	HOOK ANGLE	TEETH	MACHINES	ITEM NUMBER
120	2.8-3.6	2.2	20	6°	24/Conical	Schelling	DLI25M28EAH6
120	2.8-3.6	2.2	22	6°	24/Conical		DLI25M28EBH6
120	3.1-3.9	2.2	20	6°	24/Conical		DLI25M31EAH6
125	3.1-3.9	2.2	20	6°	24/Conical	Panhans- Schelling	DLI25M31FAH6
180	4.3-5.1	3.2	45	6°	30/Conical	Holzma	DLI25M43NEH6
180	4.7-5.5	3.5	45	6°	30/Conical	Holzma	DLI25M47NEH6
200	4.3-5.1	3.2	65	6°	36/Conical	Selco	DLI25M43PIH6
200	4.3-5.1	3.2	80	6°	36/Conical	Gabbiani	DLI25M43PLH6
200	4.7-5.5	3.5	45	6°	36/Conical	Holzma	DLI25M47PEH6
200	4.7-5.5	3.5	65	6°	36/Conical	Selco	DLI25M47PIH6
215	4.3-5.1	3.2	50	6°	42/Conical	Giben	DLI25M43QFH6

# Polycrystalline Diamond Adjustable Conical Scoring Blades

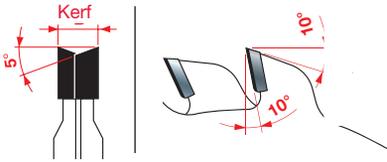


## PCD SCORING BLADES

SAW BLADES



### PYRAMID + RAKER Grind



### USE IN



Sliding Table Saws

### APPLICATION

To score the coating on bilaminated panels – extreme longer lifetime

### FEATURES

Polycrystalline Diamond ATB tooth 5° with positive cutting angle

### MATERIALS

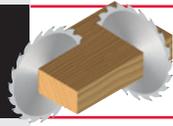


Double sided chipboard

MDF

DIA. (mm)	KERF RANGE (mm)	ARBOR (mm)	TEETH	MACHINES	ITEM NUMBER
100	2.8-3.6	20	12+12	Schelling - Panhans - Martin	DLI16MBAH6
120	2.8-3.6	20	12+12	Holzer - SCM	DLI16MAAH6
120	2.8-3.6	22	12+12	Altendorf - Marin - Mzorek	DLI16MABH6

# PANEL SIZING BLADES



## Panel Sizing Blades

### USE IN



Horizontal  
Beam Saws

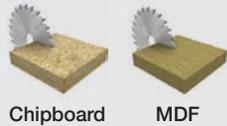
### APPLICATION

To size single or multiple panels

### FEATURES

Triple chip tooth with positive cutting angle

### MATERIALS



Chipboard    MDF



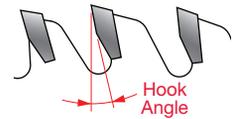
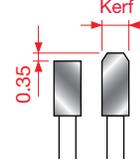
MDF laminated  
with melamine  
or plastic  
materials



Features TiCo™  
Hi-Density Carbide



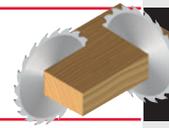
### TCG Grind



EXTENDED  
LIFE (X)  
SERIES

DIA. (mm)	KERF (mm)	PLATE (mm)	ARBOR (mm)	HOOK ANGLE	TEETH/ GRIND	PIN HOLES	ITEM NUMBER	LSBX SERIES
300	4.4	3	30	15°	60/TCG	21956	LSB30001	
300	4.4	3	30	10°	72/TCG	21956	LSB30005	
305	4.4	3	30	10°	60/TCG	21956	LSB30501	
320	4.4	3.2	30	10°	60/TCG	-		LSB32005X
350	4.4	3.2	30	10°	54/TCG	21956	LSB35001	
350	4.4	3.2	30	10°	72/TCG	2/10/60		LSB35003X
355	4.4	3.2	30	10°	72/TCG	2/10/60		LSB35504X
370	4.4	3.2	30	10°	72/TCG	2/10/60	LSB37001	
380	4.4	3.2	30	10°	72/TCG	30355	LSB38011	
400	4.4	3.2	30	10°	48/TCG	-		LSB40001X
400	4.4	3.2	30	15°	60/TCG	21956		LSB40004X
400	4.4	3.2	30	10°	72/TCG	2/10/60		LSB40007X
430	4.4	3.2	30	15°	72/TCG	-		LSB43007X
450	4.4	3.2	30	15°	48/TCG	21955	LSB45001	
450	4.4	3.2	30	10°	72/TCG	21956		LSB45007X
450	4.8	3.5	30	10°	72/TCG	21955	LSB45016	
460	4.4	3.2	30	10°	72/TCG	34378		LSB46001X
480	4.8	3.5	30	10°	72/TCG	21956		LSB48004X
480	4.4	3.2	30	15°	72/TCG	2/10/60 + 2/13/94		LSB48007X
500	4.4	3.2	30	15°	60/TCG	-	LSB50003	
500	4.4	3.2	30	15°	72/TCG	-	LSB50005	
520	4.4	3.2	30	15°	72/TCG	-	LSB50005	
520	4.4		30	15°	72/TCG	-		LSB52008X
530	5.2	3.5	30	15°	60/TCG	-		LSB53001X
550	5.5	3.8	40	15°	60/TCG	2/13/122		LSB53004X
550	5.2	3.2	40	15°	72/TCG	2/13/122		LSB55009X

# Panel Sizing Blades



# PANEL SIZING BLADES

SAW BLADES

CONTINUED

EXTENDED LIFE (X) SERIES

DIA. (mm)	KERF (mm)	PLATE (mm)	ARBOR (mm)	HOOK ANGLE	TEETH/GRIND	PIN HOLES	ITEM NUMBER	LSBX SERIES
620	6.2	4.2	40	18°	60/TCG	2/13/114 + 2/13/140	LSB62001	
620	6.2	4.2	40	15°	72/TCG	2/13/114 + 2/13/140	LSB62002	
680	6.2	4.2	40	18°	60/TCG	2/13/140 + 2/17/140		LSB68001X
720	6.4	4.4	40	18°	60/TCG	4/14/114 + 2/14/140	LSB72001	
670	6.2	4.2	40	18°	60/TCG	2/17/140 + 2/13/140		LSB67003X
670	6.2	4.2	40	15°	72/TCG	2/17/140 + 2/13/140	LSB67004	
320	4.4	3.2	50	10°	60/TCG	3/15/80 + 3/13/95	LSB32004	
350	4.4	3.2	50	10°	72/TCG	4/13/80		LSB35006X
380	4.4	3.2	50	10°	60/TCG	29324	LSB38007	
380	4.4	3.2	50	10°	72/TCG	29324		LSB38008X
400	4.4	3.2	50	10°	72/TCG	2/16/127		LSB40018X
420	4.4	3.2	50	10°	72/TCG	29324		LSB42006X
270	4.2	3	55	15°	60/TCG	-	LSB27001	
300	4.4	3.2	60	15°	72/TCG	2/14/100		LSB30012X
350	4.4	3.2	60	10°	54/TCG	2/14/100	LSB35002	
350	4.4	3.2	60	10°	72/TCG	2/14/100		LSB35004X
380	4.4	3.2	60	10°	60/TCG	2/14/100	LSB38001	
380	4.4	3.2	60	10°	72/TCG	2/14/100		LSB38002X
380	4.8	3.5	60	10°	60/TCG	2/14/100	LSB38003	
380	4.8	3.5	60	10°	72/TCG	2/14/100		LSB38004X
380	4.8	3.5	60	10°	84/TCG	2/14/100		LSB38005X
400	4.8	3.5	60	10°	72/TCG	-	LSB40013	
420	4.8	3.5	60	15°	60/TCG	2/14/125	LSB42001	
420	4.8	3.5	60	10°	84/TCG	2/14/100 + 2/14/125		LSB42002X
450	4.4	3.2	60	15°	48/TCG	2/14/125	LSB45002	
450	4.4	3.2	60	15°	60/TCG	2/14/125	LSB45005	
450	4.4	3.2	60	10°	72/TCG	2/14/125		LSB45008X
450	4.8	3.5	60	10°	72/TCG	2/14/125 + 2/17/100		LSB45017X
450	4.8	3.5	60	10°	84/TCG	2/14/125	LSB45019	
500	4.8	3.5	60	15°	60/TCG	2/11/115		LSB50009X
500	4.8	3.5	60	15°	72/TCG	2/11/115		LSB50011X
520	4.8	3.5	60	15°	60/TCG	2/9/120 + 2/11/115	LSB52002	
520	4.8	3.5	60	15°	72/TCG	2/9/120 + 2/11/115		LSB52003X
530	5.8	4	60	15°	60/TCG	31058	LSB53002	
540	4.8	3.5	60	15°	60/TCG	2/19/120 + 2/11/115	LSB54002	
540	4.8	3.5	60	15°	72/TCG	2/19/120 + 2/11/115	LSB54003	
550	5.2	3.5	60	15°	60/TCG	-		LSB55002X
570	4.8	3.5	60	15°	60/TCG	-		LSB57001X
600	5.8	4	60	15°	60/TCG	2/11/115 + 2/19/120	LSB60001	LSB60001X
600	5.8	4	60	15°	72/TCG	2/11/115 + 2/19/120		LSB60002X
670	5.8	4.2	60	18°	60/TCG	2/19/120 + 2/11/148	LSB67001	
670	6.2	4.2	40	18°	60/TCG	2/13/140	LSB67003	
670	5.8	4.2	60	15°	72/TCG	2/19/120 + 2/11/148	LSB67002	

## USE IN



Horizontal Beam Saws

## APPLICATION

To size single or multiple panels.

## FEATURES

Triple chip tooth with positive cutting angle.

## MATERIALS



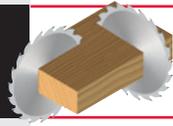
Chipboard

MDF



MDF laminated with melamine or plastic materials

# PANEL SIZING BLADES



## Panel Sizing Blades

CONTINUED

### USE IN



Horizontal  
Beam Saws

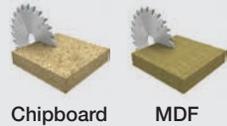
### APPLICATION

To size single or  
multiple panels

### FEATURES

Triple chip tooth with  
positive cutting angle

### MATERIALS



Chipboard

MDF

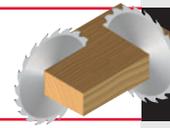


MDF laminated  
with melamine  
or plastic  
materials

EXTENDED  
LIFE (X)  
SERIES

DIA. (mm)	KERF (mm)	PLATE (mm)	ARBOR (mm)	HOOK ANGLE	TEETH/ GRIND	PIN HOLES	ITEM NUMBER	LSBX SERIES
680	6.2	4.2	40	18°	60/TCG	2/13/140 + 2/7/140	LSB68001	
730	6.2	4.2	60	18°	60/TCG	2/11/148 + 2/19/120	LSB73001	
300	4.4	3	65	10°	60/TCG	2/9/110	LSB30002	
300	4.4	3	65	10°	60/TCG	2/9/110		LSB30002X
300	4.4	3	65	10°	72/TCG	2/9/110		LSB30006X
320	4.4	3.2	65	10°	72/TCG	2/9/110		LSB32001X
320	4.4	3.2	65	10°	60/TCG	2/9/110		LSB32003X
355	4.4	3.2	65	10°	72/TCG	2/9/110		LSB35508X
360	4.4	3.2	65	10°	72/TCG	2/9/110	LSB36002	
380	4.4	3.2	65	10°	72/TCG	2/9/110		LSB38014X
400	4.6	3.2	65	10°	72/TCG	2/9/110		LSB40016X
430	4.4	3.2	65	10°	72/TCG	2/9/110		LSB43012X
430	4.4	3.5	70	10°	72/TCG	4/11/130		LSB43013X
470	4.8	3.2	70	10°	72/TCG	4/11/130		LSB47005X
520	4.8	3.5	70	18°	72/TCG	4/11/130		LSB52006X
300	4.4	3	75	10°	60/TCG	-	LSB30003	
300	4.4	3	75	10°	72/TCG	-	LSB30007	
320	4.4	3.2	75	10°	72/TCG	3/13/19		LSB32002X
350	4.4	3.2	75	10°	72/TCG	-		LSB35008X
355	4.4	3.2	75	10°	54/TCG	-	LSB35502	
355	4.4	3.2	75	10°	72/TCG	4/15/105		LSB35505X
380	4.4	3.2	75	10°	72/TCG	2/14/100	LSB38012	
400	4.4	3.2	75	15°	60/TCG	4/15/105		LSB40005X
400	4.4	3.2	75	10°	72/TCG	4/15/105		LSB40008X
430	4.4	3.2	75	15°	60/TCG	4/15/105	LSB43005	
430	4.4	3.2	75	10°	72/TCG	4/15/105		LSB43008X
430	4.4	3.2	75	10°	96/TCG	4/15/105		LSB43010X
460	4.4	3.2	75	10°	72/TCG	2/9/110		LSB46002X
470	4.4	3.2	75	15°	60/TCG	4/15/105	LSB47002	
470	4.4	3.2	75	10°	72/TCG	4/15/105		LSB47003X
470	4.4	3.2	75	10°	96/TCG	4/15/105		LSB47004X
500	4.8	3.5	75	15°	60/TCG	4/15/105		LSB50010X
500	4.8	3.5	75	15°	72/TCG	4/15/105	LSB50012	
530	4.8	3.2	75	15°	72/TCG	2/14/100		LSB53004X
300	4.4	3	80	10°	60/TCG	2/14/110 + 4/9/100		LSB30004X
300	4.4	3	80	10°	72/TCG	2/14/110 + 4/9/100		LSB30008X
320	4.4	3.2	80	10°	60/TCG	4/9/100 + 2/9/110 +2/14/110	LSB32006	
350	4.4	3.2	80	10°	72/TCG	4/9/100 + 2/9/110 + 2/14/110		LSB35005X
355	4.4	3.2	80	10°	54/TCG	4/9/100 + 2/9/110 + 2/14/110		LSB35503X
355	4.4	3.2	80	10°	72/TCG	4/9/100 + 2/9/110 + 2/14/110		LSB35506X
380	4.4	3.2	80	10°	48/TCG	4/9/100 + 2/9/110 + 2/14/110		LSB38009X
380	4.4	3.2	80	10°	72/TCG	4/9/100 + 2/9/110 + 2/14/110	LSB38010	

# Panel Sizing Blades



# PANEL SIZING BLADES

CONTINUED



Features TiCo™ Hi-Density Carbide



## USE IN



Horizontal Beam Saws

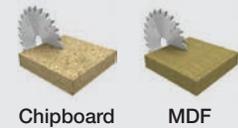
## APPLICATION

To size single or multiple panels

## FEATURES

Triple chip tooth with positive cutting angle

## MATERIALS



Chipboard

MDF

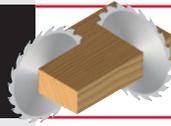


MDF laminated with melamine or plastic materials

EXTENDED LIFE (X) SERIES

DIA. (mm)	KERF (mm)	PLATE (mm)	ARBOR (mm)	HOOK ANGLE	TEETH/GRIND	PIN HOLES	ITEM NUMBER	LSBX SERIES
380	4.4	3.2	80	10°	96/TCG	4/9/100 + 2/9/110 + 2/14/110	LSB38013	
380	4.4	3.2	80	10°	72/TCG	4/9/100 + 2/9/110 + 2/14/110		LSB39001X
400	4.4	3.2	80	15°	60/TCG	4/19/120 + 2/9/130	LSB40006	
400	4.4	3.2	80	10°	72/TCG	4/19/120 + 2/9/130		LSB40009X
400	4.4	3.2	80	15°	60/TCG	4/9/100 + 2/9/110 + 2/4/110		LSB40011X
400	4.4	3.2	80	15°	72/TCG	4/9/100 + 2/9/110 + 2/4/110		LSB40012X
420	4.4	3.5	80	15°	72/TCG	2/9/130 + 4/19/120 + 2/14/110		LSB42005X
430	4.4	3.2	80	15°	60/TCG	2/9/130 +4/19/120 + 2/14/110	LSB43006	
430	4.4	3.2	80	10°	72/TCG	2/9/130 + 4/19/120 + 2/14/110		LSB43009X
450	4.4	3.2	80	10°	60/TCG	2/9/130 + 4/19/120 +2/14/110	LSB45006	
450	4.4	3.2	80	10°	72/TCG	2/9/130 + 4/19/120 + 2/14/110	LSB45009	
450	4.8	3.5	80	10°	72/TCG	2/9/130 + 4/19/120	LSB45018	
480	4.8	3.5	80	10°	72/TCG	2/9/130 + 4/19/120		LSB48001X
480	4.8	3.5	80	15°	60/TCG	2/9/130 + 4/19/120		LSB48003X

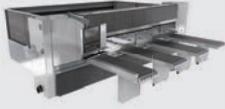
# PANEL SIZING BLADES



## Panel Sizing Blades

CONTINUED

### USE IN



Horizontal  
Beam Saws

### APPLICATION

To size single or  
multiple panels

### FEATURES

Triple chip tooth with  
positive cutting angle

### MATERIALS



Chipboard    MDF



MDF laminated  
with melamine  
or plastic  
materials

EXTENDED  
LIFE (X)  
SERIES

DIA. (mm)	KERF (mm)	PLATE (mm)	ARBOR (mm)	HOOK ANGLE	TEETH/ GRIND	PIN HOLES	ITEM NUMBER	LSBX SERIES
510	4.8	3.5	80	15°	72/TCG	2/9/130 + 4/19/120	LSB51001	
550	4.8	3.5	80	15°	60/TCG	2/9/130 + 4/19/120		<b>LSB51001X</b>
550	5.2	3.5	80	15°	60/TCG	2/14/110		<b>LSB55006X</b>
700	6.2	4.2	80	18°	60/TCG	2/17/110	LSB70001	
530	5.2	3.5	100	15°	60/TCG	-		<b>LSB53003X</b>
565	5.2	3.5	100	15°	60/TCG	-		<b>LSB56502X</b>
670	6.2	4.2	40	18°	60/TCG	2/17/140 + 2/13/140		<b>LSB67003X</b>
670	6.2	4.2	40	15°	72/TCG	2/17/140 + 2/13/140	LSB67004	
680	6.2	4.2	40	18°	60/TCG	2/13/140 + 2/17/140		<b>LSB68001X</b>
700	6.2	4.2	80	18°	60/TCG	2/17/110	LSB70001	
720	6.4	4.4	40	18°	60/TCG	4/14/114 + 2/14/140	LSB72001	
730	6.2	4.2	60	18°	60/TCG	2/11/148 + 2/19/120	LSB73001	

# Industrial Panel Sizing Blades

# PANEL SIZING BLADES



Features TiCo™ Hi-Density Carbide



## USE IN



End Trimming

## APPLICATION

To size single or multiple panels

## FEATURES

Specially designed for smooth cuts with Pyramid grind technology for increased life and smooth cuts

## MATERIALS



Plywood

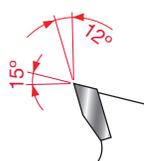
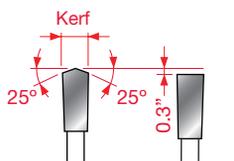
MDF



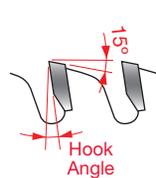
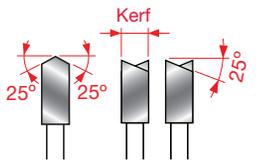
Particle Board

Hard and Soft Wood Composite

### PYRAMID + RAKER Grind

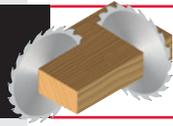


### PYRAMID 4+1 Grind



DIA. (mm)	KERF (mm)	PLATE (mm)	ARBOR (mm)	HOOK ANGLE	TEETH/GRIND	ITEM NUMBER
355 (14")	4 (.157")	3	2"	12°	90/PYR+RKR	LCL7M10062
355 (14")	4 (.157")	3	1"	12°	90/PYR+RKR	LCL7M10063
355 (14")	4.8 (.189")	3.5	2"	10°	90/PYR 4+1	LCL7M10064
355 (14")	4.8 (.189")	3.5	1"	10°	90/PYR 4+1	LCL7M10071
395 (14-1/2")	4.8 (.189")	3.5	2"	10°	90/PYR 4+1	LCL7M10065

# PANEL SIZING BLADES



## Sliding & Vertical Panel Sizing Blades

### USE IN



Table Saws

Vertical  
Panel Saws

Miter Saws



Sliding Table Saws

### APPLICATION

To size bilaminated panels, with perfect finish on both sides without use of the scoring saw blade

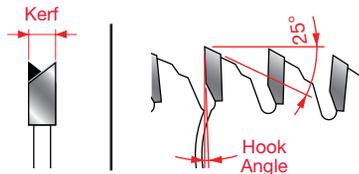
### FEATURES

ATB 38° tooth, with variable cutting angle according to the diameter

### MATERIALS

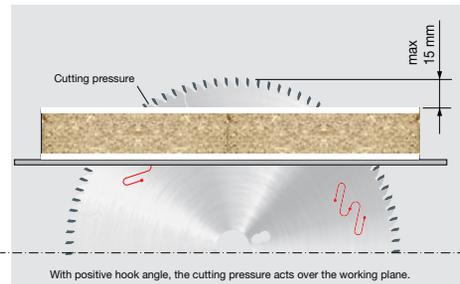
Veneered  
PlywoodDouble sided  
melamine,  
laminatesFeatures TiCo™  
Hi-Density Carbide

### HI-ATB Grind



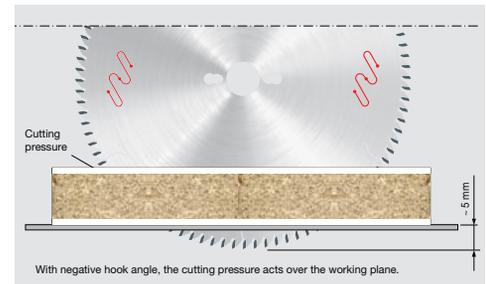
No Scorer Required

### Working with spindle under the working plane



With positive hook angle, the cutting pressure acts over the working plane.

### Working with spindle over the working plane



With negative hook angle, the cutting pressure acts over the working plane.

DIA. (mm)	KERF (mm)	PLATE (mm)	ARBOR (mm)	HOOK ANGLE	TEETH/ GRIND	PIN HOLES	ITEM NUMBER
220	3.2	2.2	30	-5°	64/Hi ATB	2/7/42	LU3A01
250	3.2	2.2	30	-2°	80/Hi ATB	2/7/42 + 2/9/46.4 + 2/10/60	LU3A02
250 (10")	3.2 (.126")	2.2 (.087")	15.88 (5/8")	-2°	80/Hi ATB	-	LU3A0203
300	3.2	2.2	30	2°	96/Hi ATB	2/7/42 + 2/9/46.4 + 2/10/60	LU3A03
350	3.5	2.5	30	5°	108/Hi ATB	2/9/46.4 + 2/10/60	LU3A04
300 (12")	3.2 (.126")	2.2 (.087")	25.4 (1")	2°	96/Hi-ATB	-	LU3A06

# Sliding & Vertical Panel Sizing Blades



# PANEL SIZING BLADES

SAW BLADES

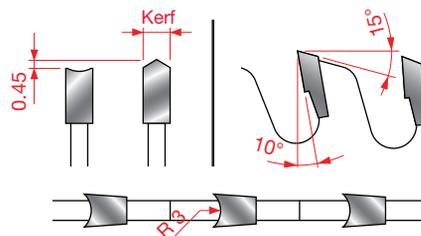
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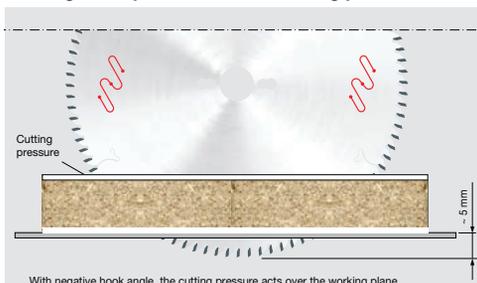
Features TiCo™ Hi-Density Carbide



PYRAMID + HALLOW Grind



Working with spindle over the working plane



## USE IN



Vertical Panel Saws



Sliding Table Saws

## APPLICATION

To size double sided panels without use of the scoring saw blade

## FEATURES

Pyramid with Hollow Face Grind and positive cutting angle

## MATERIALS



Double sided plywood veneers

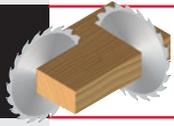
Double sided laminates



Double sided melamine

DIA. (mm)	KERF (mm)	PLATE (mm)	ARBOR (mm)	HOOK ANGLE	TEETH/GRIND	PIN HOLES	ITEM NUMBER
220	3.2	2.2	30	10°	42/HG	2/7/42	LU3B01
250	3.2	2.2	30	10°	48/HG	2/7/42 + 2/9/46.4 + 2/10/60	LU3B02
303	3.2	2.2	30	10°	60/HG	2/7/42 + 2/9/46.4 + 2/10/60	LU3B03
350	3.2	2.2	30	10°	72/HG	2/7/42 + 2/9/46.4 + 2/10/60	LU3B04

# PANEL SIZING BLADES



## Sliding & Vertical Panel Sizing Blades

### USE IN



Vertical  
Panel Saws



Sliding Table Saws

### APPLICATION

To size double sided panels without use of the scoring saw blade, up to 40 mm thick

### FEATURES

Flat-triple chip tooth with negative cutting angle

### MATERIALS



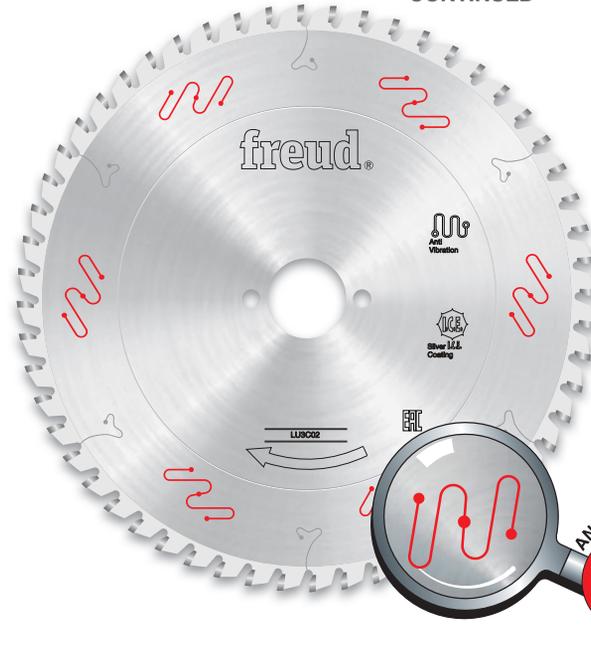
Double  
sided  
plywood  
veneers

Double  
sided  
laminates



Double  
sided  
melamine

CONTINUED



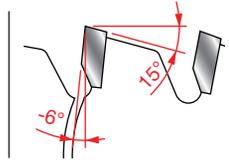
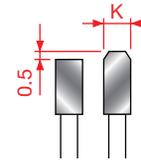
Features TiCo™  
Hi-Density Carbide



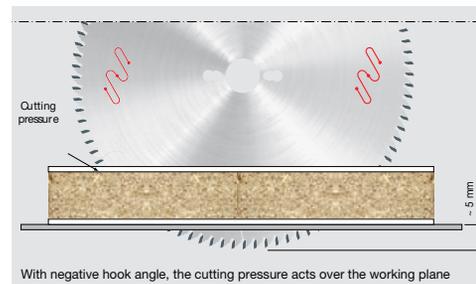
FLAT + TCG Grind



No Scorer Required



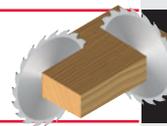
Working with spindle over the working plane



With negative hook angle, the cutting pressure acts over the working plane

DIA. (mm)	KERF (mm)	PLATE (mm)	ARBOR (mm)	HOOK ANGLE	TEETH/ GRIND	PIN HOLES	ITEM NUMBER
220	3.2	2.2	30	-6°	56/TCG	2/7/42	LU3E01
250	3.2	2.2	30	-6°	60/TCG	2/7/42 + 2/9/46.4 + 2/10/60	LU3E02
300	3.2	2.2	30	-6°	72/TCG	2/7/42 + 2/9/46.4 + 2/10/60	LU3E03
350	3.5	2.5	30	-6°	84/TCG	2/9/46.4 + 2/10/60	LU3E04

# Sliding & Vertical Panel Sizing Blades



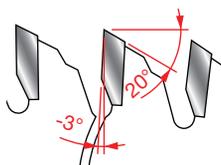
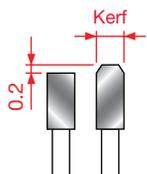
## PANEL SIZING BLADES

SAW BLADES

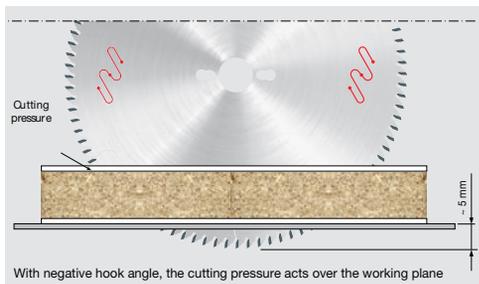
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### FLAT + TCG Grind



### Working with spindle over the working plane



### USE IN



Vertical Panel Saws



Sliding Table Saws

### APPLICATION

To size double sided panels without use of the scoring saw blade

### FEATURES

Flat-triple chip tooth with negative cutting angle

### MATERIALS



Double sided plywood veneers



Double sided laminates



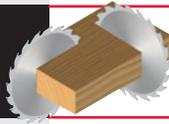
Plastic



Solid surface

DIA. (mm)	KERF (mm)	PLATE (mm)	ARBOR (mm)	HOOK ANGLE	TEETH/GRIND	PIN HOLES	ITEM NUMBER
220	3.2	2.2	30	-3°	64/TCG	2/7/42	LU3F01
250	3.2	2.2	30	-3°	80/TCG	2/7/42 + 2/9/46.4 + 2/10/60	LU3F02
300	3.2	2.2	30	-3°	96/TCG	2/7/42 + 2/9/46.4 + 2/10/60	LU3F03
350	3.5	2.5	30	-3°	108/TCG	2/9/46.4 + 2/10/60	LU3F04

# PANEL SIZING BLADES



## Vertical Panel Sizing Blades

### USE IN



Vertical Panel Saws



Sliding Table Saws

### APPLICATION

To size double sided panels without use of the scoring saw blade

### FEATURES

Pyramid with Hollow Face Grind and negative cutting angle

### MATERIALS



Double sided plywood veneers

Double sided laminates



Double sided melamine



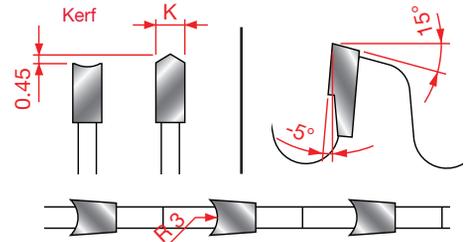
Features TiCo™ Hi-Density Carbide



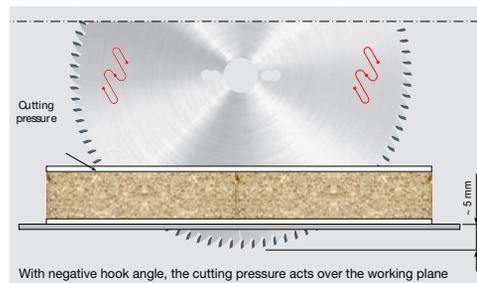
### PYRAMID + HALLOW Grind



No Scorer Required



### Working with spinda over the working plane



With negative hook angle, the cutting pressure acts over the working plane

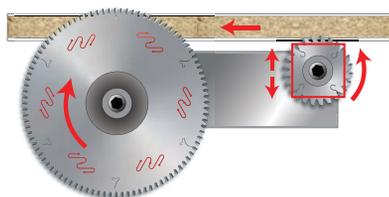
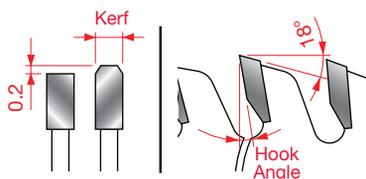
DIA. (mm)	KERF (mm)	PLATE (mm)	ARBOR (mm)	HOOK ANGLE	TEETH/GRIND	PIN HOLES	ITEM NUMBER
220	3.2	2.2	30	-5°	42/HG	2/7/42	LU3C01
250	3.2	2.2	30	-5°	48/HG	2/7/42 + 2/9/46.4 + 2/10/60	LU3C02
303	3.2	2.2	30	-5°	60/HG	2/7/42 + 2/9/46.4 + 2/10/60	LU3C03
350	3.2	2.2	30	-5°	72/HG	2/7/42 + 2/9/46.4 + 2/10/60	LU3C04

# Sliding Panel Sizing Blades

# PANEL SIZING BLADES



### FLAT + TCG Grind



### USE IN



Sliding Table Saws

### APPLICATION

To size double sided panels with use of the scoring saw blade

### FEATURES

Flat-triple chip tooth with positive cutting angle

### MATERIALS



Double sided plywood veneers

Double sided laminates



Double sided melamine

DIA. (mm)	KERF (mm)	PLATE (mm)	ARBOR (mm)	HOOK ANGLE	TEETH/GRIND	PIN HOLES	ITEM NUMBER
220	3.2	2.2	30	5°	64/TCG	2/7/42	LU3D02
250	3.2	2.2	30	5°	80/TCG	2/7/42 + 2/9/46.4 + 2/10/60	LU3D04
300	3.2	2.2	30	5°	96/TCG	2/7/42 + 2/9/46.4 + 2/10/60	LU3D06
250	3.2	2.2	30	10°	60/TCG	2/7/42 + 2/9/46.4 + 2/10/60	LU3D11
300	3.2	2.2	30	10°	96/TCG	2/7/42 + 2/9/46.4 + 2/10/60	LU3D15
350	3.5	2.5	30	10°	108/TCG	2/9/46.4 + 2/10/60	LU3D17
350	3.5	2.5	30	10°	72/TCG	2/9/46.4 + 2/10/60	LU3D20
300	3.2	2.2	30	10°	72/TCG	2/7/42 + 2/9/46.4 + 2/10/60	LU3D21
300	3.2	2.2	35	5°	96/TCG	-	LU3D07
350	3.5	2.5	30	5°	108/TCG	2/9/46.4 + 2/10/60	LU3D09
300	3.2	2.2	30	10°	84/TCG	2/7/42 + 2/9/46.4 + 2/10/60	LU3D13

# MACHINE REFERENCE

## Industrial Machine Reference

### Sliding & Vertical Panel Sizing Blades

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MACHINE	DIA. (mm)	ARBOR (mm)	PIN HOLES	ITEM NO.
Holz-Her	220	30	2/7/42	LU3A01
Striebig, Holz-Her, Altendorf, Felder, Casolin, Martin	250	30	2/7/42 + 2/9/46.4 + 2/10/60	LU3A02
Traditional Industrial Table Saws	250(10")	15.88(5/8")	-	LU3A0203
Striebig, Elcon	300	30	2/7/42 + 2/9/46.4 + 2/10/60	LU3A03
Altendorf, Felder, Casolin, Martin	350	30	2/9/46.4 + 2/10/60	LU3A04
Miter Saw	300(12")	25.4(1")	-	LU3A06

### Vertical Panel Sizing Blades

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MACHINE	DIA. (mm)	ARBOR (mm)	PIN HOLES	ITEM NO.
Holz-Her	220	30	2/7/42	LU3B01
Striebig, Holz-Her	250	30	2/7/42 + 2/9/46.4 + 2/10/60	LU3B02
Striebig, Elcon	303	30	2/7/42 + 2/9/46.4 + 2/10/60	LU3B03
-	350	30	2/7/42 + 2/9/46.4 + 2/10/60	LU3B04

### Vertical Panel Sizing Blades

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MACHINE	DIA. (mm)	ARBOR (mm)	PIN HOLES	ITEM NO.
Holz-Her	220	30	2/7/42	LU3C01
Striebig, Holz-Her	250	30	2/7/42 + 2/9/46.4 + 2/10/60	LU3C02
Striebig, Elcon	303	30	2/7/42 + 2/9/46.4 + 2/10/60	LU3C03
Striebig, Elcon	350	30	2/7/42 + 2/9/46.4 + 2/10/60	LU3C04

## Industrial Machine Reference

## MACHINE REFERENCE

### CONTINUED

MACHINE	DIA. (mm)	ARBOR (mm)	PIN HOLES	ITEM NO.
Holz-Her	220	30	2/7/42	LU3D02
Striebig, Holz-Her	250	30	2/7/42 + 2/9/46.4 + 2/10/60	LU3D04
Striebig	300	30	2/7/42 + 2/9/46.4 + 2/10/60	LU3D06
Altendorf, Felder, Casolin, Martin	250	30	2/7/42 + 2/9/46.4 + 2/10/60	LU3D11
Altendorf, Felder, Casolin, Martin	300	30	2/7/42 + 2/9/46.4 + 2/10/60	LU3D15
Altendorf, Felder, Casolin, Martin	350	30	2/9/46.4 + 2/10/60	LU3D17
Altendorf, Felder, Casolin, Martin	350	30	2/9/46.4 + 2/10/60	LU3D20
Altendorf, Felder, Casolin, Martin	300	30	2/7/42 + 2/9/46.4 + 2/10/60	LU3D21
-	300	35	-	LU3D07
-	350	30	2/9/46.4 + 2/10/60	LU3D09
-	300	30	2/7/42 + 2/9/46.4 + 2/10/60	LU3D13

MACHINE	DIA. (mm)	ARBOR (mm)	PIN HOLES	ITEM NO.
Holz-Her	220	30	2/7/42	LU3E01
Altendorf, Felder, Casolin, Martin	250	30	2/7/42 + 2/9/46.4 + 2/10/60	LU3E02
Altendorf, Felder, Casolin, Martin	300	30	2/7/42 + 2/9/46.4 + 2/10/60	LU3E03
Altendorf, Felder, Casolin, Martin	350	30	2/9/46.4 + 2/10/60	LU3E04

MACHINE	DIA. (mm)	ARBOR (mm)	PIN HOLES	ITEM NO.
Holz-Her	220	30	2/7/42	LU3F01
Altendorf, Felder, Casolin, Martin, Striebig, Holz-Her	250	30	2/7/42 + 2/9/46.4 + 2/10/60	LU3F02
Altendorf, Felder, Casolin, Martin, Striebig, Elcon	300	30	2/7/42 + 2/9/46.4 + 2/10/60	LU3F03
Altendorf, Felder, Casolin, Martin	350	30	2/9/46.4 + 2/10/60	LU3F04

### Horizontal Panel Sizing Blades

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### Horizontal & Vertical Panel Sizing Blades

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### Horizontal & Vertical Panel Sizing Blades

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# MACHINE REFERENCE

## Industrial Crosscutting Blades

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## Industrial Panel Sizing Blades

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## Industrial Solid Countertop Blades

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## Industrial Glue Line Rip Blades

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## Industrial Glue Line Rip Blades For Gang Ripping

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## Industrial Machine Reference

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MACHINE	DIA. (mm)	ARBOR (mm)	PIN HOLES	ITEM NO.
Double Miter Pistorius, CTD, Others	305 (12")	5/8"	–	LCL12108NFP
Miter Saw	305 (12")	25.4 (1")	–	LCL129001UM
Double Miter Pistorius, CTD, Others	305 (12")	15.88 (5/8")	–	LCL129002PM
Double Miter Pistorius, CTD, Others	305 (12")	15.88 (5/8")	–	LCL7M10045
Double Miter Pistorius, CTD, Others	350 (12")	15.88 (5/8")	–	LCL7M10047

MACHINE	DIA. (mm)	ARBOR (mm)	PIN HOLES	ITEM NO.
Globe, Progressive, Others	355 (14")	2"	–	LCL7M10062
Others	355 (14")	1"	–	LCL7M10063
Globe, Progressive, Others	355 (14")	2"	–	LCL7M10064
Others	355 (14")	1"	–	LCL7M10071
Globe, Progressive, Others	395 (14-1/2")	2"	–	LCL7M10065

MACHINE	DIA. (mm)	ARBOR (mm)	PIN HOLES	ITEM NO.
Counter Top Radial Arm saws	355 (14")	1"	–	LCL7M10016
Counter Top Radial Arm saws	355 (14")	1"	–	LCL7M10023
Counter Top Radial Arm saws	406 (16")	1"	–	LCL7M10014
Counter Top Radial Arm saws	406 (16")	1"	–	LCL7M10015

MACHINE	DIA. (mm)	ARBOR (mm)	PIN HOLES	ITEM NO.
Table Saws	305 (12")	1"	–	LCL7M10004
Diehl Rip Machines	355 (14")	2"	1/9/16"/5"	LCL7M10009
Table Saws	305 (12")	1"	–	LCL7M10012
Table Saws	355 (14")	1"	2/13/100 + 4/6.6/94.6 ch (2) 18.5 x 4.7	LCL7M10013

MACHINE	DIA. (mm)	ARBOR (mm)	PIN HOLES	ITEM NO.
Raimann Gang Rip	300	80mm	2/13/100 + 4/6.6/95 + DKW 18.5x4.0	LCL7M10073
Raimann Gang Rip	300	80mm	2/13/100 + 4/6.6/95 + DKW 18.5x4.1	LCL7M10075
Raimann Gang Rip	300	80mm	2/13/100 + 4/6.6/95 + DKW 18.5x4.2	LCL7M10038
Raimann Gang Rip	300	80mm	2/13/100 + 4/6.6/95 + DKW 18.5x4.3	LCL7M10072
Raimann Gang Rip	300	80mm	2/13/100 + 4/6.6/95 + DKW 18.5x4.4	LCL7M10074
Mareen-Johnson Gang Rip	305 (12")	3-1/8"	DKW 6.75x3.573, DKW 13x7	LCL7M10005
Mareen-Johnson Gang Rip	305 (12")	3-1/8"	DKW 6.75x3.573, DKW 13x8	LCL7M10007
SCM M3 Gang Rip	305 (12")	70mm	DKW 21x5	LCL7M10008
SCM M3 Gang Rip	355 (14")	70mm	DKW 21x5	LCL7M10011
Mareen-Johnson	355 (14")	3 1/8"	DKW 6.75x3.573, DKW 13x7	LCL7M10010

## Industrial Machine Reference

## MACHINE REFERENCE

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MACHINE	DIA. (mm)	ARBOR (mm)	PIN HOLES	ITEM NO.
Holz-Her, Vertical & Sliding Table	220	30	2/7/42 + 2/9/46.4 + 2/10/60	LCL7M10017
Table Saws	254 (10")	1"	-	LCL7M10018
Striebig, Holz-Her, Vertical & Sliding Table	250	30	2/7/42 + 2/9/46.4 + 2/10/60	LU4D01
Striebig, Elcon, Vertical & Sliding Table	300	30	2/7/42 + 2/9/46.4 + 2/10/60	LU4D02
Vertical & Sliding Table	350	30	2/7/42 + 2/9/46.4 + 2/10/60	LU4D03
Table Saws	305 (12")	1"	-	LCL7M10022

MACHINE	DIA. (mm)	ARBOR (mm)	PIN HOLES	ITEM NO.
Pendu	254 (10")	2-3/8"	10+2+2	LCL7M10052
Brewer	254 (10")	2-15/16"	10+2+2	LCL7M10067
Pendu	254 (10")	2-3/8"	10+2+2	LCL7M10056
Brewer	254 (10")	2 -15/16"	10+2+2	LCL7M10068
Pendu	305 (12")	2-3/8"	10+2+2	LCL7M10057
Brewer	305 (12")	2 -15/16"	10+2+2	LCL7M10069
Hazelthorn	305 (12")	2"	10+2+2	LCL7M10059
Pendu	305 (12")	2-3/8"	10+2+2	LCL7M10058
Brewer	305 (12")	2 -15/16"	10+2+2	LCL7M10070
Pendu	355 (14")	2-3/8"	10+2+2	LCL7M10060
Hazelthorn	355 (14")	2"	10+2+2	LCL7M10061

MACHINE	DIA. (mm)	ARBOR (mm)	PIN HOLES	ITEM NO.
Holz-Her, SCMI	120	20	-	LI16MAA3
Altendorf, Martin, Panhans	120	22	-	LI16MAB3
SCMI	120	3/4"	-	LI16MAC3
Schelling	100	20	-	LI16MBA3
Altendorf, Martin, Panhans	100	22	-	LI16MBB3
SCMI, Delta	100	3/4"	-	LI16MBC3
Felder, Casadei, Minimax	80	20	-	LI16MGA3
Altendorf, SCMI, Griggio-RAPIDO	120	50	Shimless (for RAPIDO)	LI16MPF3
Felder	120	50	-	LI16MRF3

MACHINE	DIA. (mm)	ARBOR (mm)	PIN HOLES	ITEM NO.
Martin	125	22	-	LI25M31FB3
Giben, Homag	125	45	-	LI25M43FE3
Giben, Homag	125	45	-	LI25M45FE3
SCM	150	30	-	LI25M31KC3
SCM	150	30	-	LI25M34KC3
SCM	150	30	-	LI25M43KC3
SCM, Holzma, Homag	150	45	-	LI25M43KE3
SCM, Holzma, Homag	150	45	-	LI25M45KE3
Giben	160	45	3/11/70	LI25M43LE3
Gabbiani, SCM	160	55	3/6/84+3/7/66	LI25M43LG3
Gabbiani, SCM	160	55	3/7/66+3/9/84	LI25M45LG3
Anthon, Holzma	180	20	-	LI25M57NA3
Panhas, Holzer	180	30	2/7/42+2/10/60	LI25M43NC3
Holzer, Nanxing, KDT	180	30	2/10/60+2/7/42	LI25M43XN3
Holzma	180	45	-	LI25M43NE3

### Specialty Blades for Cutting Non-Ferrous/Plastics/Corian

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### Pallet & Lumber Ripping Blades

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### Adjustable Scoring Blades for Sliding Table Saws

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### Conical Scoring Blades for Horizontal Beam Saws

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# MACHINE REFERENCE

## Conical Scoring Blades for Horizontal Beam Saws

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## Panel Sizing Blades for Horizontal Beam Saws

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## Industrial Machine Reference

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MACHINE	DIA. (mm)	ARBOR (mm)	PIN HOLES	ITEM NO.
Holzma	180	45	-	LI25M47NE3
Giben	180	50	3/13/80	LI25M43NF3
Gabbiani	180	55	3/7/66	LI25M51NG3
Schelling	200	20	-	LI25M43PA3
Schelling	200	20	-	LI25M47PA3
Schelling	200	20	-	LI25M54PA3
Schelling	200	20	-	LI25M61PA3
Scheer	200	30	2/9/60+2/10/60	LI25M43PC3
Scheer	200	30	2/9/60	LI25M47PC3
Holzma	200	45	-	LI25M43PE3
Holzma	200	45	-	LI25M47PE3
Holzma	200	45	-	LI25M57PE3
Holzma	200	45	-	LI25M61PE3
Giben	200	50	2/7/80+3/13/80	LI25M43PF3
Selco	200	65	2/9/100+2/9/110	LI25M43PI3
Selco	200	65	2/8.5/110	LI25M45PI3
Selco	200	65	2/9/100+2/9/110	LI25M47PI3
Gabbiani	200	80	2/14/110	LI25M43PL3
Giben	215	50	2/7/80+3/15/80	LI25M43QF3
Giben	215	50	3/15/80	LI25M45PF3
Giben	215	50		LI25M47QF3
Schelling	220	20		LI25M47UA3
Schelling	220	20	-	LI25M63UA3
Giben	250	50	3/13/80	LI25M43OF3
Schelling	300	30	2/11/75	LI25M43RC3
Giben	300	50	3/15/80	LI25M43RM3
Selco	300	65	2/9/110	LI25M43RI3
Holzma	340	45	3/14/65	LI25M47TE3

MACHINE	DIA. (mm)	ARBOR (mm)	PIN HOLES	ITEM NO.
Panhas	300	30	21956	LSB30001
Panhas	300	30	21956	LSB30005
Mayer, Panhas, SCM	305	30	21956	LSB30501
Panhas, Scheer	350	30	21956	LSB35001
Panhas, Scheer	350	30	2/10/60	LSB35003X
Panhas, SCM	355	30	2/10/60	LSB35504X
Schelling	370	30	2/10/60	LSB37001
Scheer	400	30	2/10/60	LSB40007X
Mayer, Panhas, Scheer	450	30	21955	LSB45001
Mayer, Panhas, SCM	450	30	21956	LSB45004
Mayer, Panhas, Scheer	450	30	21956	LSB45007X
Scheer	450	30	21955	LSB45016
Schelling	460	30	34378	LSB46001X
Schelling	480	30	21956	LSB48004X
Schelling	500	30	-	LSB50003
Schelling	500	30	-	LSB50005
Schelling	520	30	2/13/94	LSB52005
Schelling	530	30	-	LSB53001X
Schelling	620	40	2/13/114 + 2/13/140	LSB62001

CONTINUED

MACHINE	DIA. (mm)	ARBOR (mm)	PIN HOLES	ITEM NO.
Schelling	620	40	2/13/114 + 2/13/140	LSB62002
Schelling	680	40	2/13/140 + 2/17/140	LSB68001
Schelling	720	40	4/14/114 + 2/14/140	LSB72001
Schelling	670	40	2/17/140 + 2/13/140	LSB67003X
Schelling	670	40	2/17/140 + 2/13/140	LSB67004
Giben	400	75	4/15/105	LSB40002
Giben	320	50	3/15/80 + 3/13/95	LSB32004
Gabbiani	350	50	4/13/80	LSB35006X
Giben	380	50	29324	LSB38007
Giben	380	50	29324	LSB38008X
Giben	400	50	2/16/127	LSB38008X
Selco	420	50	29324	LSB42006X
SCM	250	55	-	LSB25001
Holzma	350	60	2/14/100	LSB35002
Holzma	350	60	2/14/100	LSB35004X
Holzma	380	60	2/14/100	LSB38001
Holzma	380	60	2/14/100	LSB38002X
Holzma	380	60	2/14/100	LSB38003
Holzma	380	60	2/14/100	LSB38004X
Holzma	380	60	2/14/100	LSB38005X
Holzma	400	60	-	LSB40013
Holzma	420	60	2/14/125	LSB42001
Holzma	420	60	2/14/100 + 2/14/125	LSB42002X
Holzma	450	60	2/14/125	LSB45002
Holzma	450	60	2/14/125	LSB45005
Holzma	450	60	2/14/125	LSB45008X
Holzma	450	60	2/14/125 + 2/17/100	LSB45017X
Holzma	450	60	2/14/125	LSB45019
Holzma	500	60	2/11/115	LSB50007
Holzma	500	60	2/11/115	LSB50009X
Holzma	500	60	2/11/115	LSB50011X
Holzma	520	60	2/9/120 + 2/11/115	LSB52002
Holzma	520	60	2/9/120 + 2/11/115	LSB52003X
Holzma	530	60	31058	LSB53002
Holzma	540	60	2/19/120 + 2/11/115	LSB54002
Holzma	540	60	2/19/120 + 2/11/115	LSB54003
Holzma	550	60	-	LSB55002X
Holzma	570	60	-	LSB57001X
Holzma	600	60	2/11/115 + 2/19/120	LSB60001X
Holzma	600	60	2/11/115 + 2/19/120	LSB60002X
Holzma	670	60	2/19/120 + 2/11/148	LSB67001
Holzma	730	60	2/11/148 + 2/19/120	LSB73001
Holzma	670	60	2/19/120 + 2/11/148	LSB67002
Selco	300	65	2/9/110	LSB30002X
Selco	300	65	2/9/110	LSB30006X
Selco	320	65	2/9/110	LSB32001X
Selco	320	65	2/9/110	LSB32003X
Selco	355	65	2/9/110	LSB35508X
Selco	360	65	2/9/110	LSB36001

CONTINUED

MACHINE	DIA. (mm)	ARBOR (mm)	PIN HOLES	ITEM NO.
Selco	360	65	2/9/110	LSB36002
Selco	380	65	2/9/110	LSB38014X
Selco	400	65	2/9/110	LSB40016X
Selco	430	65	2/9/110	LSB43012X
Selco	430	70	4/11/130	LSB43013X
Selco	470	70	4/11/130	LSB47005X
Selco	520	70	4/11/130	LSB52006X
Giben	300	75	-	LSB30003
Giben	300	75	-	LSB30007
Giben	320	75	3/13/19	LSB32002X
Giben	350	75	-	LSB35008X
Giben	355	75	-	LSB35502
Giben	355	75	4/15/105	LSB35505X
Giben	355	75	-	LSB35507
Holzma	380	75	2/14/100	LSB38012
Giben, Homag	400	75	4/15/105	LSB40005X
Giben, Homag	400	75	4/15/105	LSB40008X
Giben	430	75	4/15/105	LSB43002
Giben	430	75	4/15/105	LSB43005
Giben	430	75	4/15/105	LSB43008X
Giben	430	75	4/15/105	LSB43010X
Giben	460	75	2/9/110	LSB46002X
Giben	470	75	4/15/105	LSB47001
Giben	470	75	4/15/105	LSB47002
Giben	470	75	4/15/105	LSB47003X
Giben	470	75	4/15/105	LSB47004X
Giben	500	75	4/15/105	LSB50010X
Giben	500	75	4/15/105	LSB50012
SCM	300	80	2/14/110 + 4/9/100	LSB30004X
SCM	300	80	2/14/110 + 4/9/100	LSB30008X
Gabbiani	320	80	4/9/100 + 2/9/110 +2/14/110	LSB32006
Gabbiani	350	80	4/9/100 + 2/9/110 + 2/14/110	LSB35005X
Gabbiani	355	80	4/9/100 + 2/9/110 + 2/14/110	LSB35503X
Gabbiani	355	80	4/9/100 + 2/9/110 + 2/14/110	LSB35506X
Gabbiani	380	80	4/9/100 + 2/9/110 + 2/14/110	LSB38009X
Gabbiani	380	80	4/9/100 + 2/9/110 + 2/14/110	LSB38010
Gabbiani	380	80	4/9/100 + 2/9/110 + 2/14/110	LSB38013
Sigma	380	80	4/9/100 + 2/9/110 + 2/14/110	LSB39001X
Selco	400	80	4/19/120 + 2/9/130	LSB40006
Selco	400	80	4/19/120 + 2/9/130	LSB40009X
Gabbiani	400	80	4/9/100 + 2/9/110 + 2/4/110	LSB40011X
Gabbiani	400	80	4/9/100 + 2/9/110 + 2/4/110	LSB40012

CONTINUED

MACHINE	DIA. (mm)	ARBOR (mm)	PIN HOLES	ITEM NO.
Gabbiani	420	80	2/9/130 + 4/19/120 + 2/14/110	LSB42005X
Gabbiani, Selco	430	80	2/9/130 + 4/19/120 + 2/14/110	LSB43006
Gabbiani, Selco	430	80	2/9/130 + 4/19/120 + 2/14/110	LSB42005X
Gabbiani, Selco	450	80	2/9/130 + 4/19/120 +2/14/110	LSB45003
Gabbiani, Selco	450	80	2/9/130 + 4/19/120 +2/14/110	LSB45006
Gabbiani, Selco	450	80	2/9/130 + 4/19/120 + 2/14/110	LSB45009
Selco	450	80	2/9/130 + 4/19/120	LSB45018
Selco	480	80	2/9/130 + 4/19/120	LSB48001X
Gabbiani, Selco	480	80	2/9/130 + 4/19/120 +2/14/110	LSB48002
Selco	480	80	2/9/130 + 4/19/120	LSB48003X
Gabbiani	500	80	4/9/100 + 2/9/110+2/14/110	LSB50002
Gabbiani	500	80	4/9/100 + 2/9/110 + 2/14/110	LSB50004
Selco	510	80	2/9/130 + 4/19/120	LSB51001
Gabbiani	550	80	2/14/110	LSB55005
Gabbiani	550	80	2/14/110	LSB55006X
Gabbiani	565	80	2/14/110 + 4/9/100	LSB56503
Anthon	700	80	2/17/110	LSB70001
	530	100	-	LSB53003X
Giben	565	100	-	LSB56501
Giben	565	100	-	LSB56502X

# DIAL-A-WIDTH STACKED DADO



**TiCo™  
Hi-Density Carbide**  
For Splinter Free Flat  
Bottom Grooves



**No More Shims**  
A stacked dado set with  
no shims. Simply dial the  
patented hub for micro  
adjustments.

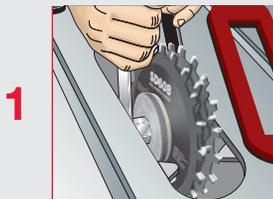


**Easy & Accurate**  
Each "click" of the dial adjusts  
the blade by .004"; with an  
adjustable width range of 1/4"  
to 29/32". A twist of the wrist is  
all it takes!



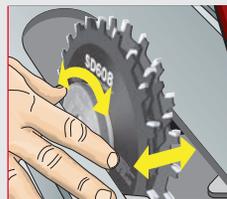
## **Not a Wobble Daddo!**

IT'S AS EASY AS 1...2...3...



1

LOOSEN



2

TURN A DIAL



3

TIGHTEN

## Dial-A-Width Stacked Dado Sets

# SD600 SERIES

Whether you're a skilled professional or a weekend hobbyist, Freud has a dado for you. The SD608, Freud's Dial-A-Width Dado, has a patented dial system for easy and precise adjustments while offering extremely accurate cuts.

Cuts Clean Flat-Bottom Grooves in Materials such as:



Laminates & Melamines



Solid Woods

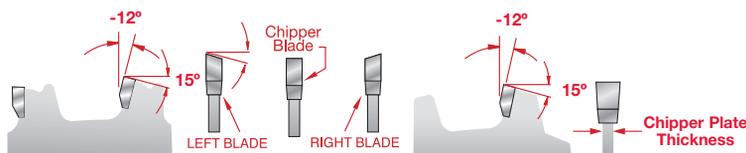


Veneered Plywood

### RECOMMENDED USE

Hardwood			
Softwood			
Chip Wood			
Plywood			
Laminate			
Non-Ferrous			
<b>CUT QUALITY</b>	<b>FAIR</b>	<b>GOOD</b>	<b>EXCELLENT</b>

### CARBIDE GRADE



ITEM NO.	DIA.	TEETH	ARBOR	CHIPPER PLATE THICKNESS
SD606	6"	20	5/8"	(4)1/8", (1)3/32"
SD608	8"	24	5/8"	(4)1/8", (1)3/32"

SLOT WIDTH	NO. CHIPPER REQUIRED	
	1/8	3/32
1/4"	0	0
5/16"	0	0
3/8"	0	1
7/16"	1	0
1/2"	1	1

SLOT WIDTH	NO. CHIPPER REQUIRED	
	1/8	3/32
9/16"	2	0
5/8"	2	1
11/16"	3	0
3/4"	3	1
13/16"	4	0

## DADO SETS

### USE IN



Table Saws



Portable Table Saws



Radial Arm Table Saws

### APPLICATION

Patented dial system stacked dado set and with our exclusive Dial hub to ensure accurate adjustments. Adjusts in .004" increments. Adjusts easily to right or left operating machines. It does not need shims.

### CUT WIDTH



### SET INCLUDES



2 Blades



Wrench



5 Chippers

### MATERIALS



Hardwood Softwood Plywood



Veneered plywood Laminate

**i** Carbide tips should never come into contact with each other. Always use both outside blades and never use chippers alone or with just one outside blade.

# DADO SETS

## USE IN



Table Saws



Radial Arm Table Saws

## APPLICATION

The first to include a 3/32" thick chipper and has the flexibility of an adjustable dado to handle today's undersized plywood. This allows the cut width to be adjusted in .004" (k5) increments and doubles the number of slot widths available.

## SET INCLUDES



2 Blades

Shim Set



6 Chippers

## MATERIALS



Hardwood Softwood Plywood



OSB Laminate



For safety and best results, when cutting wide and/or deep dadoses, make several light passes instead of attempting to remove the material in one pass.

**CAUTION:** Carbide tips should never come into contact with each other. Always use both outside blades and never use chippers alone or with just one outside blade.

# Super Dado Sets



Features TiCo™ Hi-Density Carbide Crosscutting Blend For Clean, Crisp Grooves



SD500 Series

**Freud's Dado Sets**

create clean edges, square shoulders & flat bottoms

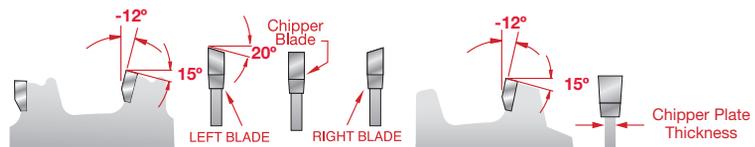
**Other Dado Sets**

leave splinters and uneven bottoms

## RECOMMENDED USE

Hardwood			
Softwood			
Chip Wood			
Plywood			
Laminate			
Non-Ferrous			
<b>CUT QUALITY</b>	FAIR	GOOD	EXCELLENT

## CARBIDE GRADE



ITEM NO.	DIA.	TEETH	ARBOR	CHIPPER PLATE THICKNESS
SD506	6"	20	5/8"	(4)1/8", (1)3/32", (1)1/16"
SD508	8"	24	5/8"	(4)1/8", (1)3/32", (1)1/16"
SD510	10"	32	1"	(4)1/8", (1)3/32", (1)1/16"
SD512	12"	36	1"	(4)1/8", (1)3/32", (1)1/16"

SLOT WIDTH	NO. CHIPPER REQUIRED		
	1/8	3/32	1/16
1/4"	0	0	0
5/16"	0	0	1
11/32"	0	1	0
3/8"	1	0	0
13/32"	0	1	1
7/16"	1	0	1
15/32"	1	1	0
1/2"	2	0	0
17/32"	1	1	1
9/16"	2	0	1

SLOT WIDTH	NO. CHIPPER REQUIRED		
	1/8	3/32	1/16
19/32"	2	1	0
5/8"	3	0	0
21/32"	2	1	1
11/16"	3	0	1
23/32"	3	1	0
3/4"	4	0	0
25/32"	3	1	1
13/16"	4	0	1
29/32"	4	1	1

## Safety Dado Sets

## DADO SETS



Features TiCo™  
Hi-Density Carbide  
Crosscutting Blend For  
Clean, Crisp Grooves



SD300 Series

### Freud's Dado Sets



create clean edges,  
square shoulders &  
flat bottoms

### Other Dado Sets



leave splinters and  
uneven bottoms

### USE IN



Table Saws



Portable  
Table Saws

### APPLICATION

Safe and splinter free dadoes. Produce grooves or rabbets which are flat-bottomed and virtually splinter-free in solid woods. Stacked dado sets are more precise than other styles and with the use of Freud's Shim Set the kerf width can be adjusted by as little as .004" for the correct fit.

### SET INCLUDES



2 Blades



Shim Set  
(for SD306 & SD308)

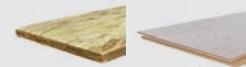


5 Chippers

### MATERIALS



Hardwood Softwood Plywood

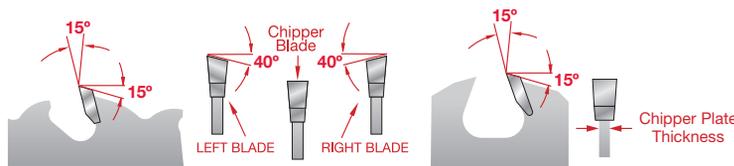


OSB Laminate

### RECOMMENDED USE

Hardwood			
Softwood			
Chip Wood			
Plywood			
Laminate			
Non-Ferrous			
<b>CUT QUALITY</b>	<b>FAIR</b>	<b>GOOD</b>	<b>EXCELLENT</b>

### CARBIDE GRADE



ITEM NO.	DIA.	TEETH	ARBOR	CHIPPER PLATE THICKNESS
SD306	6"	18	5/8"	(4)1/8", (1)1/16"
SD308	8"	22	5/8"	(4)1/8", (1)1/16"

SLOT WIDTH	NO. CHIPPER REQUIRED	
	1/8	1/16
1/4"	0	0
5/16"	0	1
3/8"	1	0
7/16"	1	1
1/2"	2	0

SLOT WIDTH	NO. CHIPPER REQUIRED	
	1/8	1/16
9/16"	2	1
5/8"	3	0
11/16"	3	1
3/4"	4	0
13/16"	4	1



To determine if you need a 6" or 8" dado, first consult your saw owner's manual. Even if the manual states that the saw will accept an 8" dado, using the 6" on most 120v saws will greatly reduce the load on the motor.

**CAUTION:** Carbide tips should never come into contact with each other. Always use both outside blades and never use chippers alone or with just one outside blade.

# DADO SETS

## USE IN



Table Saws

Portable Table Saws

Radial Arm Table Saws

## APPLICATION

The negative hook angles make flat bottom grooves and virtually splinter-free cuts. Two outside blades with three 2-wing chippers which makes it ideal for underpowered saws because it requires less power to feed. Comes with Freud's anti-kickback design. This resharpenable set will produce grooves from 1/4" to 7/8" in 1/16" increments.

## SET INCLUDES



2 Blades

Shim Set

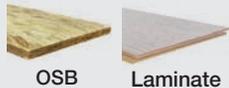
Spacers

3 Chippers

## MATERIALS



Hardwood Softwood Plywood



OSB

Laminate

**i** Use a sacrificial backer board to eliminate blow out at the end of your dado cuts

**CAUTION:** Carbide tips should never come into contact with each other. Always use both outside blades and never use chippers alone or with just one outside blade.

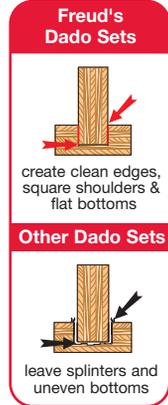
# Pro Dado Set



Features TiCo™ Hi-Density Carbide Crosscutting Blend For Clean, Crisp Grooves



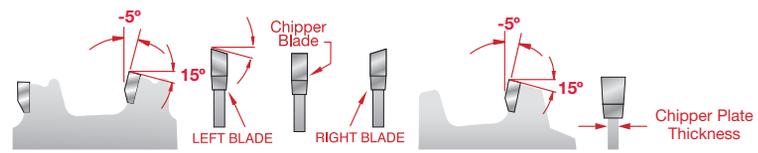
SD200 Series



## RECOMMENDED USE

Hardwood	FAIR	GOOD	EXCELLENT
Softwood	FAIR	GOOD	EXCELLENT
Chip Wood	FAIR	GOOD	EXCELLENT
Plywood	FAIR	GOOD	EXCELLENT
Laminate	FAIR	GOOD	EXCELLENT
Non-Ferrous	FAIR	GOOD	EXCELLENT

## CARBIDE GRADE



ITEM NO.	DIA.	TEETH	ARBOR	CHIPPER PLATE THICKNESS
SD206	6"	10	5/8"	(3)1/8"
SD2085	6"	12	5/8"	(3)1/8"

SLOT WIDTH	NO. CHIPPER REQUIRED	
	1/8"	SPACERS
1/4"	0	0
5/16"	0	1
3/8"	1	0
7/16"	1	1
1/2"	2	0

SLOT WIDTH	NO. CHIPPER REQUIRED	
	1/8"	SPACERS
9/16"	2	1
5/8"	3	0
11/16"	3	1
3/4"	3	2
13/16"	3	3

## Box Joint Cutter Set



Features TiCo™  
Hi-Density Carbide  
Crosscutting Blend For  
Clean, Crisp Grooves



SBOX8 Series

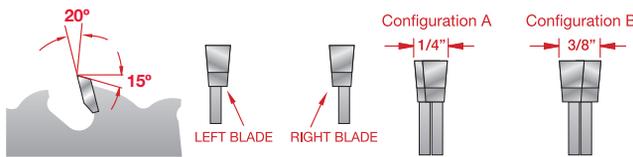


Set Creates perfect  
1/4" & 3/8" Box  
Joints.

### RECOMMENDED USE

Hardwood	██████████		
Softwood	██████████		
Chip Wood	██████████		
Plywood	██████████		
Laminate	██████████		
Non-Ferrous	██████████		
<b>CUT QUALITY</b>	<b>FAIR</b>	<b>GOOD</b>	<b>EXCELLENT</b>

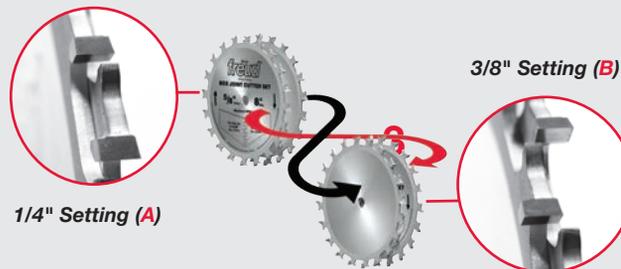
### CARBIDE GRADE



ITEM NO.	DIA.	TEETH	ARBOR	HOOK ANGLE	WIDTH OF CUT
SBOX8	8"	20	5/8"	20°	1/4" Groove & 3/8" Groove

### HOW IT WORKS

The set is easy to use, simply install the two 8" diameter, 5/8" arbor blades on a table saw with the blades back to back for 1/4" box joints (A), or face to face for 3/8" box joints (B).



## DADO SETS

### USE IN



Table Saws



Portable  
Table Saws

### APPLICATION

Cutting Grooves to Create Box Joints in Softwood or Hardwood. Creating perfectly square, flat-bottom box joints, on a table saw without using a dado set or saw blade. The SBOX8 Box Joint Cutter Set makes box joint construction easy, producing strong, accurate joints without shims or awkward adjustments.

### SET INCLUDES

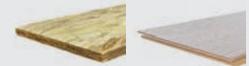


2 Blades

### MATERIALS



Hardwood Softwood Plywood



OSB Laminate



Make test cuts and sample joints with your new SBOX8 before using it on your first project. Whenever possible, plan projects to use stock with a width that is an even multiple of either 1/4" or 3/8", resulting in joints with all pins and tails at full width.

**CAUTION:** Carbide tips should never come into contact with each other. Always use both outside blades and never use chippers alone or with just one outside blade.

## DADO SETS

## SYMBOL KEY

- ★ Outer Blades
- ◆ Chipper
- ◇ Chipper
- Shim
- ⊙ Spacer

### Set-Up For SD600 Series Dial-A-Width Dado Sets

*Cuts Dadoes  
from 7/32" to 29/32"*

For ultimate precision and cut quality, this unique stacked dado system allows for quick and easy adjustments without the use of shims—giving flawless flat bottom cuts in hardwoods, softwoods, veneered plywoods and laminates.

This chart is applicable for:

- SD606
- SD608

### Set-Up For SD500 Series Dado Sets

*Cuts Dadoes  
from 1/4" to 29/32"*

The SD500 Super Dado series are available in 6" (SD506), 8" (SD508), 10" (SD510) and 12" (SD512). This series gives flawless flat bottom grooves with virtually splinter-free cuts in hardwoods, softwoods, veneered plywoods and laminates.

This chart is applicable for:

- SD506 • SD510
- SD508 • SD512

CONTINUES

## Dado Chipper Set-Up &amp; Configuration Guide

These charts explain how to set up your dado cutters to achieve your desired width of cut.

Complete set-up instructions, safety information and technical specifications are contained in the manual that comes in the dado set.

Cut Width	7/32"	1/4"	9/32"	5/16"	11/32"	3/8"	13/32"	7/16"	15/32"	1/2"	17/32"
Left Outside Blade	★	★	★	★	★	★	★	★	★	★	★
Right Outside Blade	★	★	★	★	★	★	★	★	★	★	★
3/32" Chipper	-	-	-	-	◆	◆	-	-	◆	◆	-
1/8" Chipper	-	-	-	-	-	-	◆	◆	◆	◆	◆
1/8" Chipper	-	-	-	-	-	-	-	-	-	-	◆
1/8" Chipper	-	-	-	-	-	-	-	-	-	-	-
1/8" Chipper	-	-	-	-	-	-	-	-	-	-	-
*Number of Clicks	1	9	16	25	8	16	15	22	8	16	15

Cut Width	9/16"	19/32"	5/8"	21/32"	11/16"	23/32"	3/4"	25/32"	13/16"	27/32"	7/8"	29/32"
Left Outside Blade	★	★	★	★	★	★	★	★	★	★	★	★
Right Outside Blade	★	★	★	★	★	★	★	★	★	★	★	★
3/32" Chipper	-	◆	◆	-	-	◆	◆	-	-	◆	◆	◆
1/8" Chipper	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
1/8" Chipper	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
1/8" Chipper	-	-	-	◆	◆	◆	◆	◆	◆	◆	◆	◆
1/8" Chipper	-	-	-	-	-	-	-	◆	◆	◆	◆	◆
*Number of Clicks	22	8	16	15	22	8	16	15	22	8	15	22

\* The clicks are from zero on a "zeroed-out" dial. To learn how to zero-out the SD600 series dial refer to the manual that is included with the SD600 series dado sets. Always check the Table Saw manual or consult the manufacturer for the maximum allowable dado width.

Cut Width	7/32"	1/4"	9/32"	5/16"	11/32"	3/8"	13/32"	7/16"	15/32"	1/2"	17/32"
Left Outside Blade	N/A	★	★	★	★	★	★	★	★	★	★
Right Outside Blade	N/A	★	★	★	★	★	★	★	★	★	★
1/16" Chipper	N/A	-	-	◆	-	-	◆	◆	-	-	◆
3/32" Chipper	N/A	-	-	-	◆	-	◆	-	◆	-	◆
1/8" Chipper	N/A	-	-	-	-	◆	-	◆	◆	◆	◆
1/8" Chipper	N/A	-	-	-	-	-	-	-	-	◆	-
1/8" Chipper	N/A	-	-	-	-	-	-	-	-	-	-
1/8" Chipper	N/A	-	-	-	-	-	-	-	-	-	-
0.020" (0.5mm) Shim	N/A	-	○	-	-	-	-	-	-	-	-
0.012" (0.3mm) Shim	N/A	-	○	-	-	-	-	-	-	-	-
0.008" (0.2mm) Shim	N/A	-	-	-	-	-	-	-	-	-	-
0.004" (0.1mm) Shim	N/A	-	-	-	-	-	-	-	-	-	-

## Dado Chipper Set-Up & Configuration Guide

## DADO SETS

Cut Width	9/16"	19/32"	5/8"	21/32"	11/16"	23/32"	3/4"	25/32"	13/16"	27/32"	7/8"	29/32"
Left Outside Blade	★	★	★	★	★	★	★	★	★	★	★	★
Right Outside Blade	★	★	★	★	★	★	★	★	★	★	★	★
1/16" Chipper	◆	-	-	◆	◆	-	-	◆	◆	-	-	◆
3/32" Chipper	-	◆	-	◆	-	◆	-	◆	-	◆	◆	◆
1/8" Chipper	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
1/8" Chipper	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
1/8" Chipper	-	-	◆	-	◆	◆	◆	◆	◆	◆	◆	◆
1/8" Chipper	-	-	-	-	-	-	◆	-	◆	◆	◆	◆
0.020" (0.5mm) Shim	-	-	-	-	-	-	-	-	-	-	○	-
0.012" (0.3mm) Shim	-	-	-	-	-	-	-	-	-	-	○	-
0.008" (0.2mm) Shim	-	-	-	-	-	-	-	-	-	-	-	-
0.004" (0.1mm) Shim	-	-	-	-	-	-	-	-	-	-	-	-

### Set-Up For SD500 Series

#### Dado Sets

Cuts Dadoes  
from 1/4" to 29/32"

CONTINUED

Cut Width	7/32"	1/4"	9/32"	5/16"	11/32"	3/8"	13/32"	7/16"	15/32"	1/2"	17/32"
Left Outside Blade	N/A	★	★	★	★	★	★	★	★	★	★
Right Outside Blade	N/A	★	★	★	★	★	★	★	★	★	★
1/16" Chipper	N/A	-	-	◆	◆	-	-	◆	◆	-	-
1/8" Chipper	N/A	-	-	-	-	◆	◆	◆	◆	◆	◆
1/8" Chipper	N/A	-	-	-	-	-	-	-	-	◆	◆
1/8" Chipper	N/A	-	-	-	-	-	-	-	-	-	-
1/8" Chipper	N/A	-	-	-	-	-	-	-	-	-	-
0.020" (0.5mm) Shim	N/A	-	○	-	○	-	○	-	○	-	○
0.012" (0.3mm) Shim	N/A	-	○	-	○	-	○	-	○	-	○
0.008" (0.2mm) Shim	N/A	-	-	-	-	-	-	-	-	-	-
0.004" (0.1mm) Shim	N/A	-	-	-	-	-	-	-	-	-	-

### Set-Up For SD300 Series Dado Sets

Cuts Dadoes  
from 1/4" to 7/8"

The SD300 series gives superb cuts in softwoods & hardwoods. Available in 6" (SD306) and 8" (SD308) sizes. Cuts; hardwoods, softwoods, chipboard, plywood, & laminates.

This chart is applicable for:

- SD306
- SD308

Cut Width	9/16"	19/32"	5/8"	21/32"	11/16"	23/32"	3/4"	25/32"	13/16"	27/32"	7/8"	29/32"
Left Outside Blade	★	★	★	★	★	★	★	★	★	★	★	★
Right Outside Blade	★	★	★	★	★	★	★	★	★	★	★	★
1/16" Chipper	◆	◆	-	-	◆	◆	-	-	◆	◆	◆	N/A
1/8" Chipper	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	N/A
1/8" Chipper	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	N/A
1/8" Chipper	-	-	◆	◆	◆	◆	◆	◆	◆	◆	◆	N/A
1/8" Chipper	-	-	-	-	-	-	◆	◆	◆	◆	◆	N/A
0.020" (0.5mm) Shim	-	○	-	○	-	○	-	○	-	○	○	N/A
0.012" (0.3mm) Shim	-	○	-	○	-	○	-	○	-	○	○	N/A
0.008" (0.2mm) Shim	-	-	-	-	-	-	-	-	-	-	○	N/A
0.004" (0.1mm) Shim	-	-	-	-	-	-	-	-	-	-	○	N/A

## DADO SETS

Set-Up For  
SD200 Series  
Dado Sets

Cuts Dados From  
1/4" to 7/8"

The SD200 series gives great performance at a great price. Available in 6" (SD206) and 8" (SD208). Cuts; hardwoods, softwoods, chipboard, plywood, & laminates.

This chart is applicable for:

- SD206
- SD208

## Dado Chipper Set-Up &amp; Configuration Guide

CONTINUED

Cut Width	7/32"	1/4"	9/32"	5/16"	11/32"	3/8"	13/32"	7/16"	15/32"	1/2"	17/32"
Left Outside Blade	N/A	★	★	★	★	★	★	★	★	★	★
Right Outside Blade	N/A	★	★	★	★	★	★	★	★	★	★
1/8" Chipper	N/A	-	-	◆	◆	◆	◆	◆	◆	◆	◆
1/8" Chipper	N/A	-	-	-	-	-	-	-	-	◆	◆
1/8" Chipper	N/A	-	-	-	-	-	-	-	-	-	-
1/16" Spacer	N/A	-	-	⊙	⊙	-	-	⊙	⊙	-	-
0.020" (0.5mm) Shim	N/A	-	○	-	○	-	○	-	○	-	○
0.012" (0.3mm) Shim	N/A	-	○	-	○	-	○	-	○	-	○
0.008" (0.2mm) Shim	N/A	-	-	-	-	-	-	-	-	-	-
0.004" (0.1mm) Shim	N/A	-	-	-	-	-	-	-	-	-	-

Cut Width	9/16"	19/32"	5/8"	21/32"	11/16"	23/32"	3/4"	25/32"	13/16"	27/32"	7/8"	29/32"
Left Outside Blade	★	★	★	★	★	★	★	★	★	★	★	★
Right Outside Blade	★	★	★	★	★	★	★	★	★	★	★	★
1/8" Chipper	◆	◆	◆	◆	◆	◆	-	-	◆	◆	◆	N/A
1/8" Chipper	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	N/A
1/8" Chipper	-	-	◆	◆	◆	◆	◆	◆	◆	◆	◆	N/A
1/16" Spacer	⊙	⊙	-	-	⊙	⊙	⊙	⊙	⊙	⊙	⊙	N/A
0.020" (0.5mm) Shim	-	○	-	○	-	○	-	○	-	○	○	N/A
0.012" (0.3mm) Shim	-	○	-	○	-	○	-	○	-	○	○	N/A
0.008" (0.2mm) Shim	-	-	-	-	-	-	-	-	-	-	○	N/A
0.004" (0.1mm) Shim	-	-	-	-	-	-	-	-	-	-	○	N/A

## Dado Replacement Parts & Shim Sets

## DADO SETS

### Precision Shim Sets - Outside Number of Each Thickness

ITEM	ARBOR	DIA.	.004	.008	.012	.020
SS100	5/8"	3-5/32"	4	2	2	2
SS200	1"	3-5/32"	4	2	2	2

### Chippers

ITEM	FOR	DIA.	TEETH	ARBOR	THICKNESS
SD206C16	SD206	6"	2	5/8"	1/16"
SD206C18	SD206	6"	2	5/8"	1/8"
SD208C16	SD208	8"	2	5/8"	1/16"
SD208C18	SD208	8"	2	5/8"	1/8"
SDIC0616	SD306	6"	2	5/8"	1/16"
SDIC0618	SD306	6"	2	5/8"	1/8"
SDIC0816	SD308	8"	2	5/8"	1/16"
SDIC0818	SD308	8"	2	5/8"	1/8"
SDIC1018	SD310	10"	2	1"	1/8"
SDIC1216	SD312	12"	2	1"	1/16"
SDIC1218	SD312	12"	2	1"	1/8"
SD506C16	SD506	6"	4	5/8"	1/16"
SD506C332	SD506	6"	4	5/8"	3/32"
SD506C18	SD506	6"	4	5/8"	1/8"
SD508C16	SD508	8"	4	5/8"	1/16"
SD508C332	SD508	8"	4	5/8"	3/32"
SD508C18	SD508	8"	4	5/8"	1/8"
SD510C16	SD510	10"	4	1"	1/16"
SD510C332	SD510	10"	4	1"	3/32"
SD510C18	SD510	10"	4	1"	1/8"
SD512C16	SD512	12"	4	1"	1/16"
SD512C332	SD512	12"	4	1"	3/32"
SD512C18	SD512	12"	4	1"	1/8"
SD606C18	SD606	6"	4	5/8"	1/8"
SD606C332	SD606	8"	4	5/8"	3/32"
SD608C18	SD608	8"	4	5/8"	1/8"
SD608C332	SD608	8"	4	5/8"	3/32"

### Replacement Parts For SD606 & SD608 Series

ITEM	DESCRIPTION
SD600SP	Spring hub assembly bearing & screws
SD600BB	Ball bearing for hub assembly
SD600HUB	Dial hub
SD600FLG	Flange for blade assembly
SD600FSC	Screws for flange

- Use Dado Sets components only with the dado set for which they are designed
- Never use chippers without both outside blades
- SS100 will work with any stacked dado set on table saws or radial arm saws with a 5/8" arbor
- SS200 will work with any stacked dado on table saws or radial arm saws with a 1" arbor

Freud dado sets are built to last through many years of sharpening and use. However, accidents like dropping a chipper do happen and Freud offers a full range of replacement parts. All outside blades and chippers are made to the same exacting standards of quality as the original set. For wider cuts Freud's Precision Shim Set and additional chippers are available.

CONTINUED

## Outside Blades

ITEM	FOR	DIA.	TEETH	ARBOR	ORIENTATION
SD206OLH	SD206	6"	10	5/8"	Left Side
SD206ORH	SD206	6"	10	5/8"	Right Side
SD208OLH	SD208	8"	12	5/8"	Left Side
SD208ORH	SD208	8"	12	5/8"	Right Side
SDOS06LH	SD306	6"	24	5/8"	Left Side
SDOS06RH	SD306	6"	24	5/8"	Right Side
SDOS08LH	SD308	8"	24	5/8"	Left Side
SDOS08RH	SD308	8"	24	5/8"	Right Side
SDOS10RH	SD310	10"	36	1"	Right Side
SDOS12LH	SD312	12"	36	1"	Left Side
SDOS12RH	SD312	12"	36	1"	Right Side
SD506OLH	SD506	6"	24	5/8"	Left Side
SD506ORH	SD506	6"	24	5/8"	Right Side
SD508OLH	SD508	8"	24	5/8"	Left Side
SD508ORH	SD508	8"	24	5/8"	Right Side
SD510OLH	SD510	10"	32	1"	Left Side
SD510ORH	SD510	10"	32	1"	Right Side
SD512OLH	SD512	12"	36	1"	Left Side
SD512ORH	SD512	12"	36	1"	Right Side
SD606OLH	SD606	6"	24	5/8"	Left Side
SD606ORH	SD606	6"	24	5/8"	Right Side
SD608OLH	SD608	8"	24	5/8"	Left Side
SD608ORH	SD608	8"	24	5/8"	Right Side

## Calibration & Sanding Disks

## CALIBRATION & SANDING DISKS



### USE IN



Table Saws

Miter Saws

Portable Table Saws

Radial Arm Table Saws

### APPLICATION

For sanding and accurately aligning your saw for optimal performance. They are precision ground extra thick for absolute balance and flatness. Simply mount the disk onto the saw and align the disk with a square. Because there are no teeth to get in the way, it will produce a more accurate reading. Then simply remove the disk and mount your blade. Freud Disks will also turn your table saw into a disk sander. Simply mount any of the adhesive backed Freud Sanding Disks (4 popular grits available) onto the Freud Calibration and Sanding Disk and use as a disk sander. Sanding time will be cut down to practically nothing.

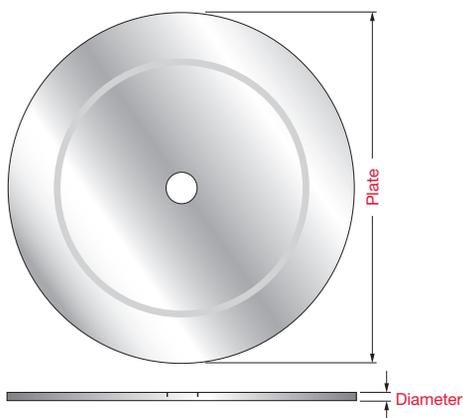
ITEM NO.	DIA.	PLATE	BORE
CD008	8"	1/8"	5/8"
CD010	10"	1/8"	5/8"

### MATERIALS



Hardwood Softwood Plywood

OSB Laminate



## CALIBRATION & SANDING DISKS

### Blade Stabilizers & Stiffeners

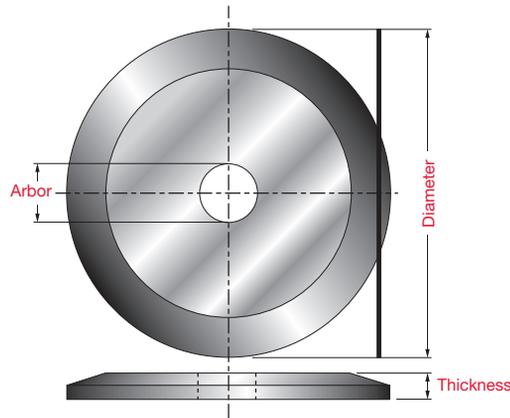
#### APPLICATION

These sets of saw blade stabilizers are precision machined and balanced to give an added amount of stability. Freud Stabilizer sets not only improve the cut, but make the saw cut quieter, and extend it's cutting life between sharpenings. These Stabilizer sets can be used on blades 7" diameter, and larger.

**CAUTION:** Stabilizers should only be used on stationary saws and should never be used on hand held portable saws

#### SC Series Stabilizer Sets (2 pieces)

ITEM NO.	ARBOR	DIA.	THICKNESS
SC-001	5/8"	3-1/2"	9/32"



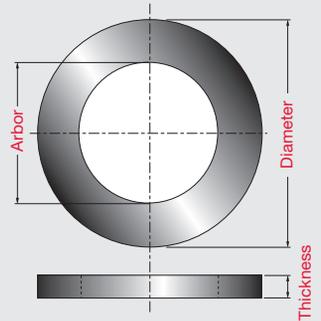
## Saw Blade Bushings

## CALIBRATION & SANDING DISKS

ITEM NO.	INSIDE DIA.	OUTSIDE DIA.	THICKNESS INCH	GAUGE
BL71MAA9	3/8"	1/2"	.048	18
BL71MBA9	1/2"	5/8"	.056	17
BL71MBB9	1/2"	3/4"	.056	17
BL71MBC9	1/2"	13/16"	.056	17
BL71MBD9	1/2"	7/8"	.064	16
BL71MBF9	1/2"	1-1/8"	.080	14
BL71MCA9	5/8"	◇SKIL	.056	17
BL71MCB9	5/8"	3/4"	.056	17
BL71MCC9	5/8"	13/16"	.056	17
BL71MCD9	5/8"	7/8"	.064	16
BL71MCE9	5/8"	1"	.080	14
BL71MCF9	5/8"	1-1/4"	.092	13
BL71MDB9	3/4"	1"	.080	14
BL71MDC9	3/4"	1-1/8"	.104	12
BL71MEA9	7/8"	1"	.080	14
BL71MFA9	1"	1-1/8"	.092	13
BL71MFB9	1"	1-1/4"	.104	12
BL71MFC9	1"	1-3/8"	.104	12
BL71MFD9	1"	1-1/2"	.116	11
BL71MGW9	5/8"	20mm	.064	16
BL71MIA9	1"	30mm	.092	13
BL71MLA9	5/8"	30mm	.092	13
BL71MNA9	20mm	1"	.080	14

### APPLICATION

For Reduction In Blade Arbor Size. These precision bushings are designed for reducing the arbor size of Freud and other manufacturers saw blades.



# ROUTER BITS

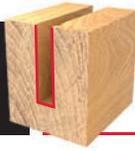


Freud's router bits are known for their exceptional quality, unmatched precision and maximum cutting life. The bits are carefully crafted using the best materials, the industry's most sophisticated manufacturing processes, and include exclusive Freud features such as TiCo™ Hi-Density Carbide and red Perma-SHIELD® non-stick coating. Freud's bits also contain revolutionary, innovative designs such as Quadra-Cut™ and Double-Grind™.

*Freud router bits – Precisely The Best.*



# STRAIGHT, SPIRAL & TRIM BITS



## Double Flute Straight Bits

### USE IN



Table Router



Hand Router

CNC

### APPLICATION

Precise shear and hook angles for smooth finishes and end of bit relief for fast plunging in general stock removal



### ECLIPSE GRIND

Freud's Eclipse Grind™ provides optimal chip clearance for less build-up; extending the life of the bit while allowing for 2x sharpenings

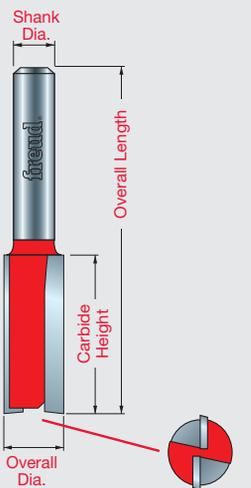
### MATERIALS



Hardwood Softwood Plywood



OSB Laminate



Double Flute

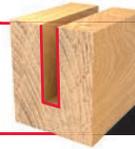
ITEM NUMBER	OVERALL DIA.	CARBIDE HEIGHT	SHANK DIA.	OVERALL LENGTH
04-096**	1/16"	1/4"	1/4"	1-5/8"
04-098**	3/32"	3/8"	1/4"	1-5/16"
04-100**	1/8"	3/8"	1/4"	1-3/4"
04-101**	5/32"	5/8"	1/4"	1-1/2"
04-102**	3/16"	1/2"	1/4"	2"
04-103**	3/16"	5/8"	1/4"	2"
04-104**	1/4"	1/2"	1/4"	2"
04-105**	1/4"	5/8"	1/4"	2"
04-106**	1/4"	3/4"	1/4"	2-1/4"
04-107**	1/4"	7/8"	1/4"	2-1/4"
04-108**	1/4"	1"	1/4"	2-1/2"
04-109**	1/4"	7/8"	1/4"	2-7/8"
04-110**	1/4"	1"	1/4"	2-7/8"
04-112*	9/32"	1"	1/4"	2"
04-118*	5/16"	1"	1/4"	2-1/2"
04-120*	3/8"	7/8"	1/4"	1-7/8"
04-124*	3/8"	1"	1/4"	2-1/2"
04-126*	3/8"	1-1/4"	1/4"	2-11/16"
04-129*	7/16"	1"	1/4"	2-1/2"
04-130*	1/2"	3/4"	1/4"	2-1/4"
04-131*	1/2"	7/8"	1/4"	1-7/8"
04-132*	1/2"	1"	1/4"	2-1/8"
04-133*	1/2"	1-1/4"	1/4"	2-3/4"
04-134*	9/16"	3/4"	1/4"	2-1/8"
04-136*	5/8"	3/4"	1/4"	2-1/8"
04-137*	5/8"	1-1/4"	1/4"	2-3/4"
04-138*	11/16"	3/4"	1/4"	2-1/8"
04-140*	3/4"	3/4"	1/4"	2-1/8"
04-144*	1-13/16"	3/4"	1/4"	2"
04-148*	7/8"	3/4"	1/4"	2"
04-152*	1"	3/4"	1/4"	2"
04-156*	1"	1-1/8"	1/4"	2-9/16"
08-106	1/4"	3/4"	3/8"	2"
08-124	3/8"	1"	3/8"	2-1/4"
08-132	1/2"	1"	3/8"	2-1/2"
08-136	5/8"	1"	3/8"	2-1/4"
08-152	3/4"	1"	3/8"	2-1/4"
12-096*	15/64"	3/4"	1/2"	2-13/32"
12-100*	1/4"	3/4"	1/2"	2-3/8"
12-102*	1/4"	7/8"	1/2"	2-7/8"
12-106*	5/16"	1"	1/2"	2-3/4"
12-108*	3/8"	1"	1/2"	2-5/8"
12-110*	3/8"	1-1/4"	1/2"	2-7/8"
12-112***	13/32"	1"	1/2"	2-5/8"
12-113*	7/16"	1-1/4"	1/2"	3-1/4"
12-115*	7/8"	1-1/4"	1/2"	2-3/4"
12-116*	1/2"	1"	1/2"	2-5/8"
12-118*	1/2"	1-1/4"	1/2"	2-7/8"
12-122*	1/2"	1-1/2"	1/2"	3-1/8"
12-124*	1/2"	1-1/2"	1/2"	4-1/4"
12-128*	1/2"	2"	1/2"	4-1/8"
12-130*	1/2"	2-1/2"	1/2"	4-3/8"
12-134*	9/16"	1-1/4"	1/2"	2-7/8"
12-136*	5/8"	1"	1/2"	2-1/2"
12-138*	5/8"	1-1/4"	1/2"	2-1/2"

\* Solid Carbide  
\* Eclipse Grind

\*\* For use with Porter-Cable® Dovetail Jig #4212  
Red Item Numbers Indicate 1/2" Shank

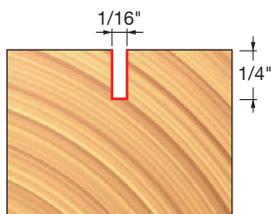
All Profile Drawings 1:1 Scale

# Double Flute Straight Bits

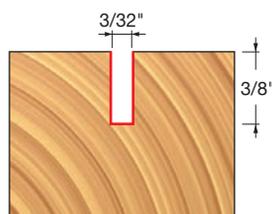


# STRAIGHT, SPIRAL & TRIM BITS

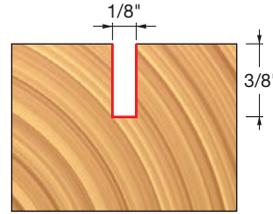
ITEM NUMBER	OVERALL DIA.	CARBIDE HEIGHT	SHANK DIA.	OVERALL LENGTH
12-140*	5/8"	1-1/2"	1/2"	3"
12-142*	5/8"	2"	1/2"	4"
12-148*	11/16"	1-1/4"	1/2"	3"
12-152*	3/4"	1"	1/2"	2-1/2"
12-154*	3/4"	1-1/4"	1/2"	3"
12-156*	3/4"	1-1/2"	1/2"	3"
12-158*	3/4"	2"	1/2"	3-1/2"
12-162*	13/16"	1-1/4"	1/2"	3"
12-168*	7/8"	1-1/4"	1/2"	3"
12-172*	1"	1-1/4"	1/2"	3"
12-178*	1-1/8"	1-1/2"	1/2"	3"
12-182*	1-1/4"	1-1/2"	1/2"	2-7/8"
12-186*	1-3/8"	1-1/4"	1/2"	3"
12-190*	1-1/2"	1-1/4"	1/2"	3"
12-194*	1-3/4"	1-1/4"	1/2"	3"
Undersized Plywood Bits				
04-111**	7/32"	3/4"	1/4"	2"
04-127*	15/32"	3/4"	1/4"	2"
04-128*	15/32"	7/8"	1/4"	2-3/8"
12-114*	15/32"	1-1/4"	1/2"	2-7/8"
12-135*	19/32"	1-1/4"	1/2"	2-7/8"
12-150*	23/32"	1-1/4"	1/2"	2-7/8"
Metric Version				
04-502**	2mm	5/32"	1/4"	1-1/2"
04-508**	3mm	5/16"	1/4"	1-3/4"
04-512**	5mm	15/32"	1/4"	2"
04-520*	10mm	1-1/4"	1/4"	2-3/8"
04-528*	12mm	1-1/4"	1/4"	2-3/8"
04-532*	15mm	3/4"	1/4"	2-1/4"
04-536*	15mm	1-1/4"	1/4"	2-5/8"
04-540*	16mm	3/4"	1/4"	2-1/4"
04-544*	16mm	1-1/4"	1/4"	2-5/8"
04-548*	18mm	3/4"	1/4"	2"
04-552*	20mm	3/4"	1/4"	2"
12-520*	10mm	1-1/4"	1/2"	2-3/4"
12-530*	12mm	1-1/4"	1/2"	2-3/4"
12-544*	16mm	1-1/4"	1/2"	2-3/4"



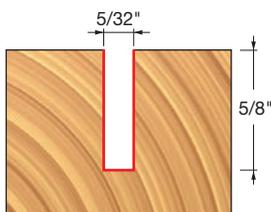
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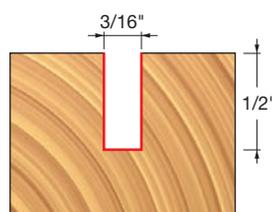
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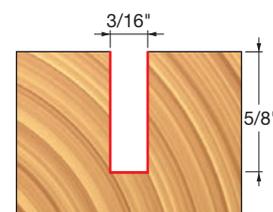
04-100



04-101



04-102



04-103

\* Solid Carbide  
\* Eclipse Grind

\*\* For use with Porter-Cable® Dovetail Jig #4212  
Red Item Numbers Indicate 1/2" Shank

All Profile Drawings 1:1 Scale

## USE IN



Table Router



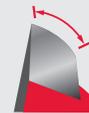
Hand Router



CNC

## APPLICATION

Precise shear and hook angles for smooth finishes and end of bit relief for fast plunging in general stock removal



## ECLIPSE GRIND

Freud's Eclipse Grind™ provides optimal chip clearance for less build-up; extending the life of the bit while allowing for 2x resharpenings

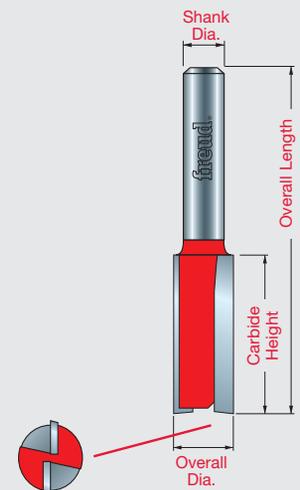
## MATERIALS



Hardwood Softwood Plywood

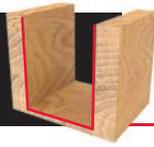


OSB Laminate



Double Flute

# STRAIGHT, SPIRAL & TRIM BITS



## Double Flute Straight Bits

### USE IN



Table Router



Hand Router

CNC

### APPLICATION

Precise shear and hook angles for smooth finishes and end of bit relief for fast plunging in general stock removal

### ECLIPSE GRIND

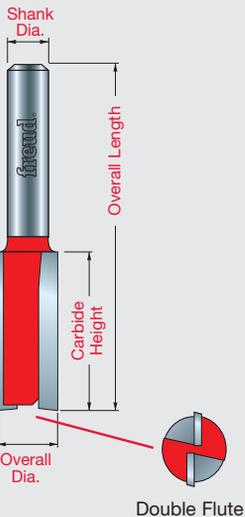
Freud's Eclipse Grind™ provides optimal chip clearance for less build-up; extending the life of the bit while allowing for 2x resharpenings

### MATERIALS



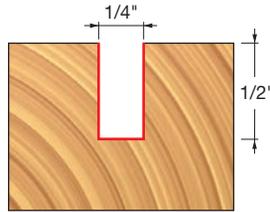
Hardwood Softwood Plywood

OSB Laminate

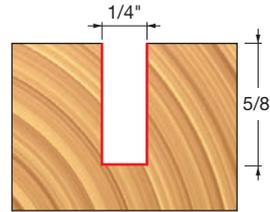


Double Flute

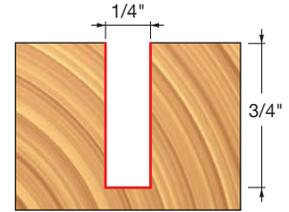
### CONTINUED



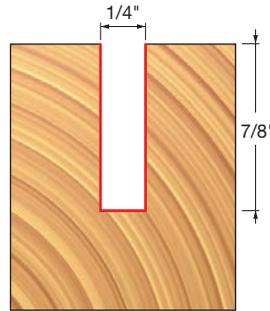
04-104



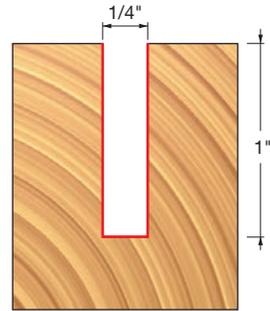
04-105



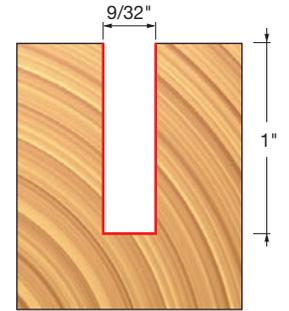
04-106 / 08-106 / 12-100



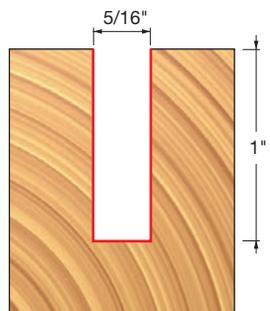
04-107 / 04-109 / 12-102



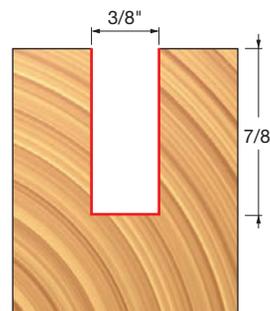
04-108 / 04-110



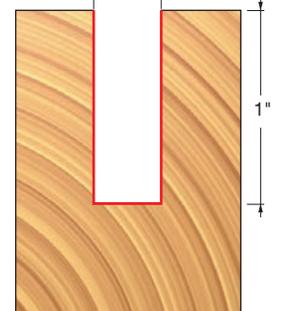
04-112



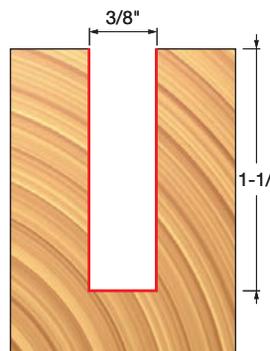
04-118 / 12-106



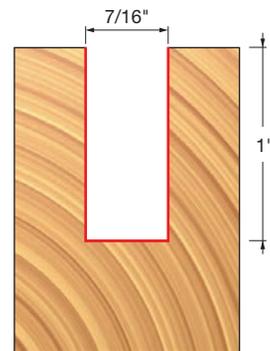
04-120



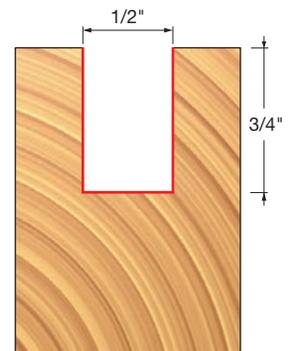
04-124 / 08-124 / 12-108



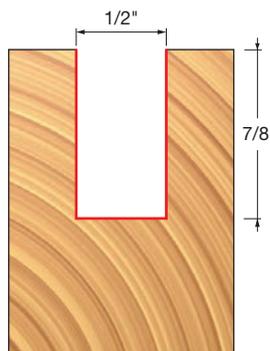
04-126 / 12-110



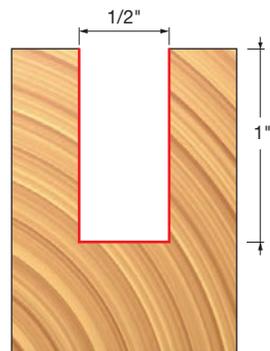
04-129



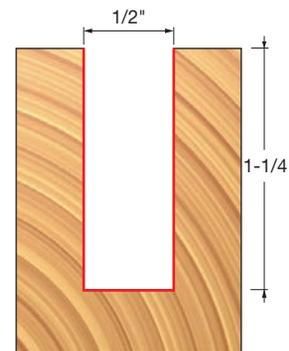
04-130



04-131



04-132 / 08-132 / 12-116



04-133 / 12-118

\* Solid Carbide

Red Item Numbers Indicate 1/2" Shank

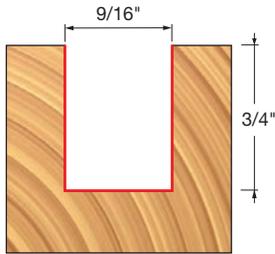
All Profile Drawings 1:1 Scale

# Double Flute Straight Bits

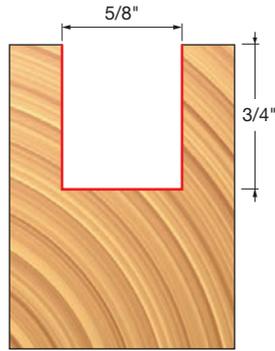


# STRAIGHT, SPIRAL & TRIM BITS

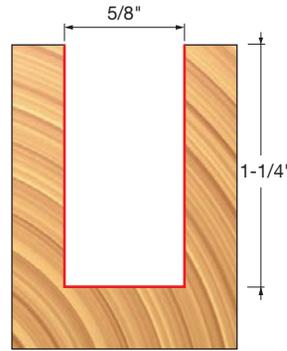
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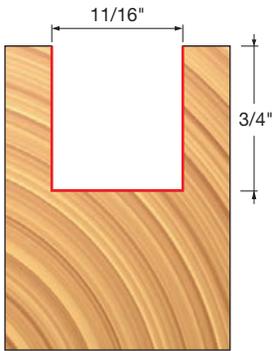
04-134



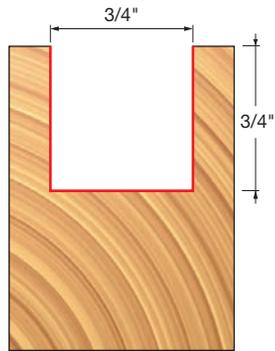
04-136



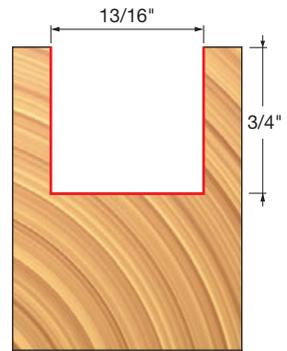
04-137 / 12-138



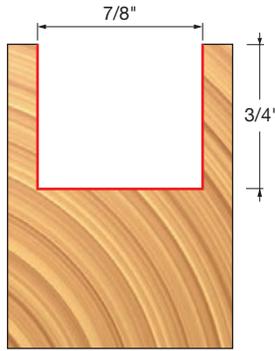
04-138



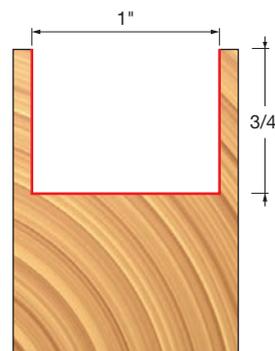
04-140



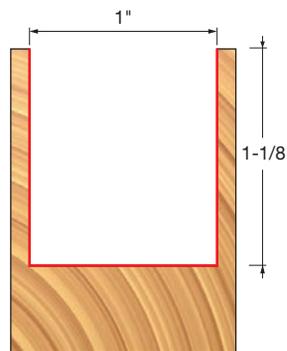
04-144



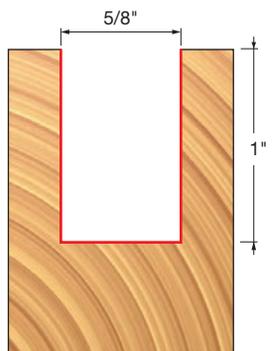
04-148



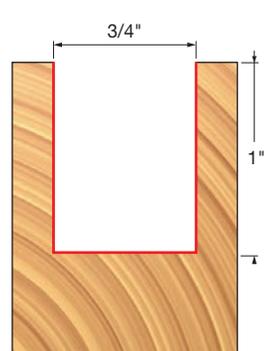
04-152



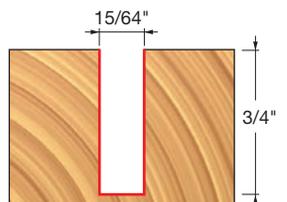
04-156



08-136 / 12-136



08-152 / 12-152



12-096

## USE IN



Table Router



Hand Router



CNC

## APPLICATION

Precise shear and hook angles for smooth finishes and end of bit relief for fast plunging in general stock removal



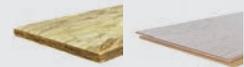
## ECLIPSE GRIND

Freud's Eclipse Grind™ provides optimal chip clearance for less build-up; extending the life of the bit while allowing for 2x resharpenings

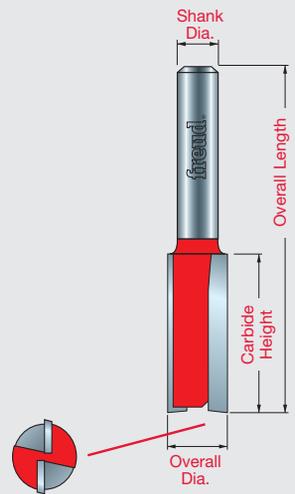
## MATERIALS



Hardwood Softwood Plywood



OSB Laminate



Double Flute

\* Solid Carbide

Red Item Numbers Indicate 1/2" Shank

All Profile Drawings 1:1 Scale

# STRAIGHT, SPIRAL & TRIM BITS

## Double Flute Straight Bits



### USE IN



Table Router



Hand Router

CNC

### APPLICATION

Precise shear and hook angles for smooth finishes and end of bit relief for fast plunging in general stock removal



### ECLIPSE GRIND

Freud's Eclipse Grind™ provides optimal chip clearance for less build-up; extending the life of the bit while allowing for 2x resharpenings

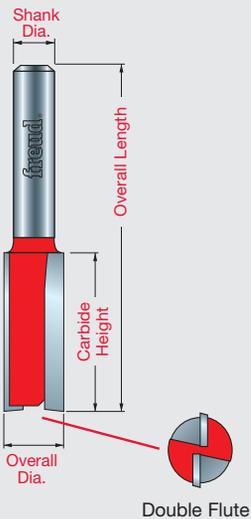
### MATERIALS



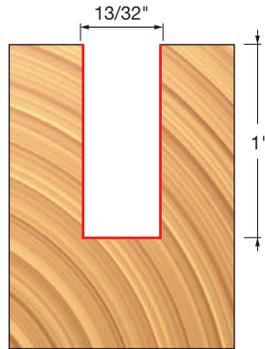
Hardwood Softwood Plywood



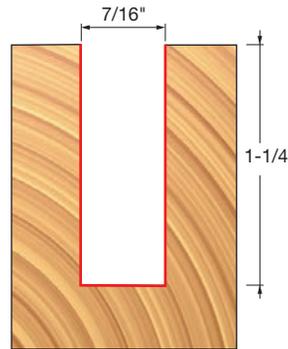
OSB Laminate



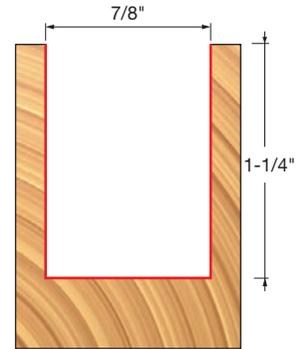
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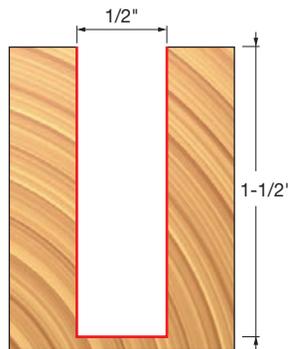
12-112



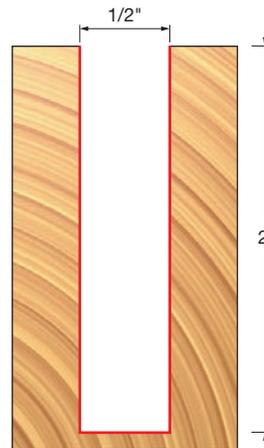
12-113



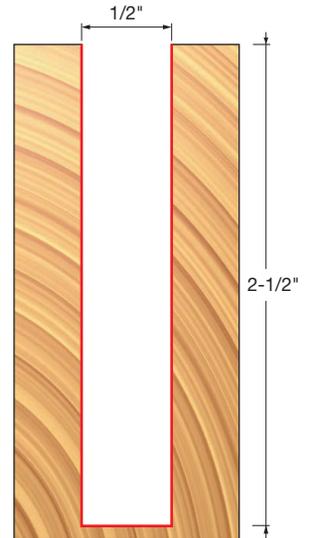
12-115 / 12-168



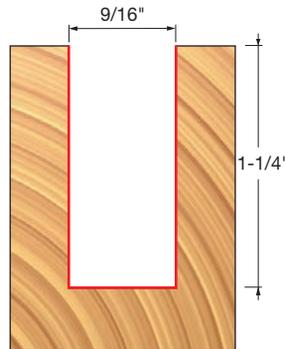
12-122 / 12-124



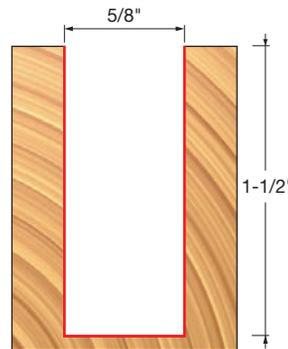
12-128



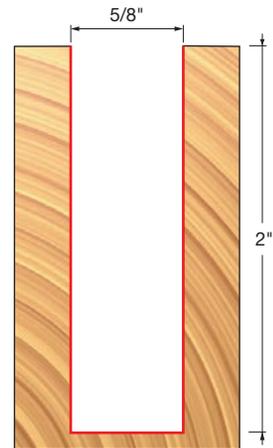
12-130



12-134



12-140



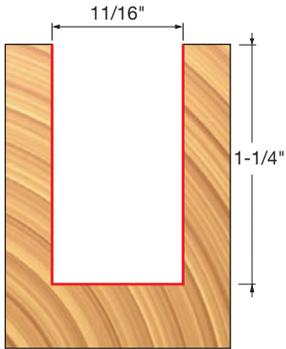
12-142

# Double Flute Straight Bits

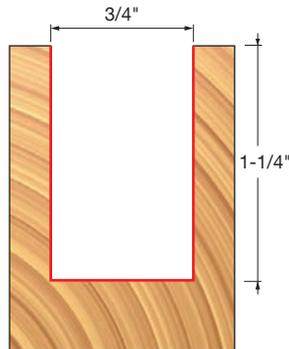


# STRAIGHT, SPIRAL & TRIM BITS

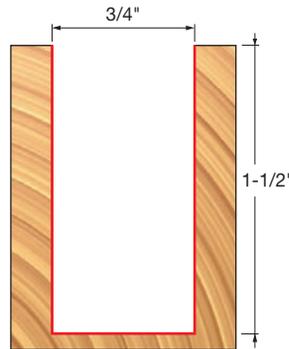
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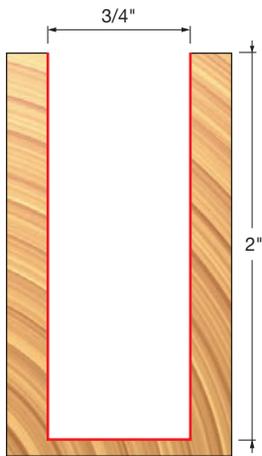
12-148



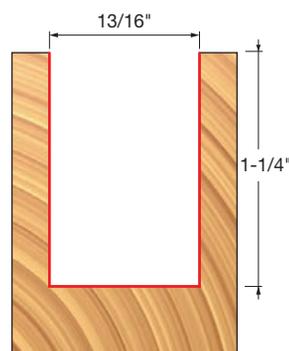
12-154



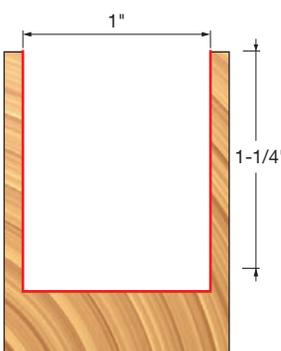
12-156



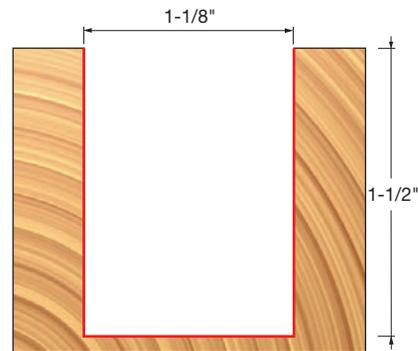
12-158



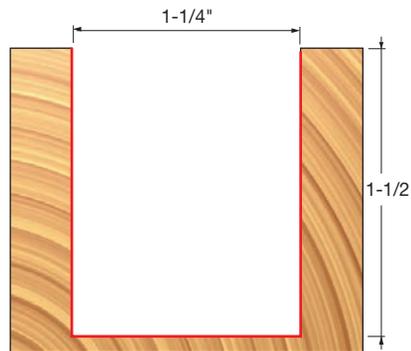
12-162



12-172



12-178



12-182

## USE IN



Table Router

Hand Router

CNC

## APPLICATION

Precise shear and hook angles for smooth finishes and end of bit relief for fast plunging in general stock removal



## ECLIPSE GRIND

Freud's Eclipse Grind™ provides optimal chip clearance for less build-up; extending the life of the bit while allowing for 2x resharpenings

## MATERIALS



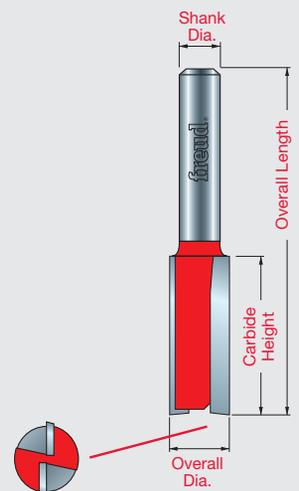
Hardwood

Softwood

Plywood

OSB

Laminate



Double Flute

\* Solid Carbide

Red Item Numbers Indicate 1/2" Shank

All Profile Drawings 1:1 Scale

# STRAIGHT, SPIRAL & TRIM BITS

## Double Flute Straight Bits



CONTINUED

### USE IN



Table Router



Hand Router

CNC

### APPLICATION

Precise shear and hook angles for smooth finishes and end of bit relief for fast plunging in general stock removal



### ECLIPSE GRIND

Freud's Eclipse Grind™ provides optimal chip clearance for less build-up; extending the life of the bit while allowing for 2x resharpenings

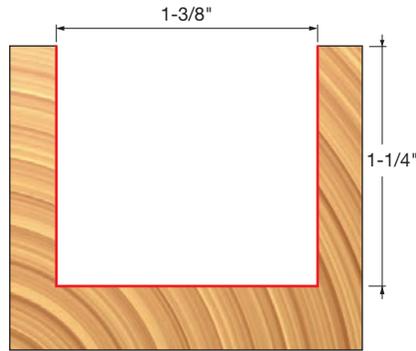
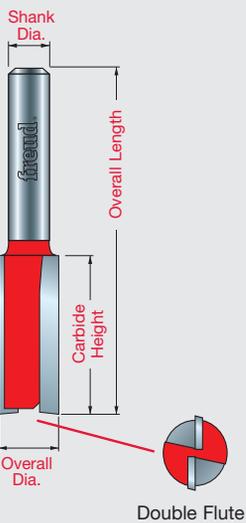
### MATERIALS



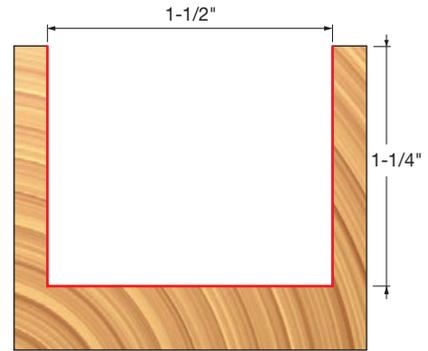
Hardwood Softwood Plywood



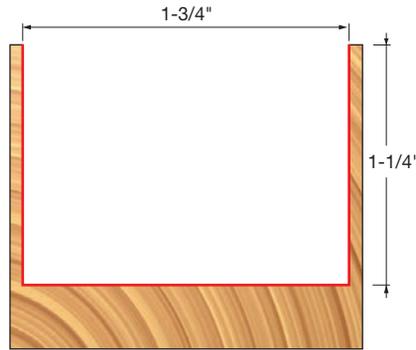
OSB Laminate



12-186

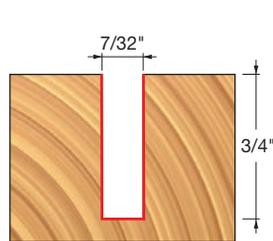


12-190

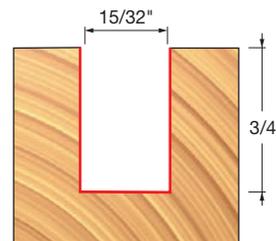


12-194

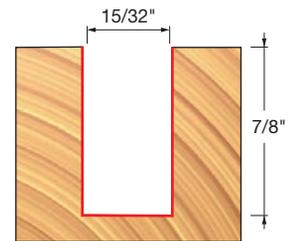
### Undersized Plywood Bits



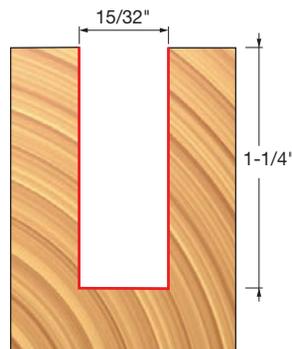
04-111



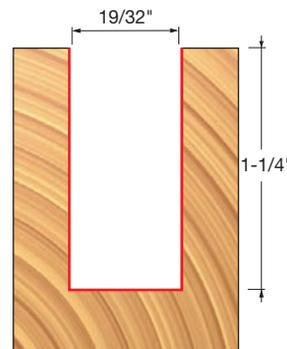
04-127



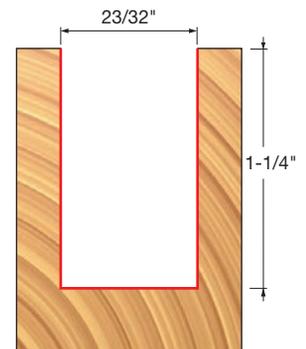
04-128



12-114



12-135



12-150

\* Solid Carbide

Red Item Numbers Indicate 1/2" Shank

All Profile Drawings 1:1 Scale

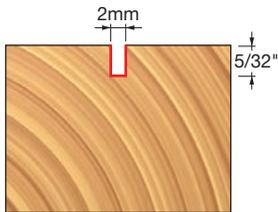
# Double Flute Straight Bits



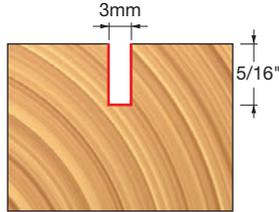
# STRAIGHT, SPIRAL & TRIM BITS

CONTINUED

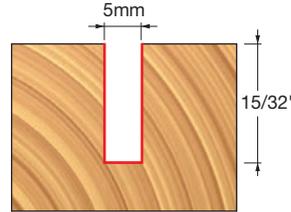
## Metric Version



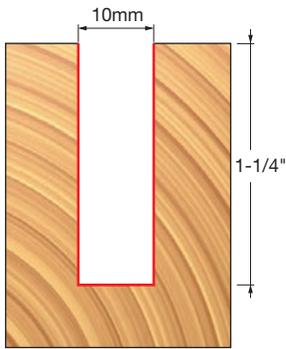
04-502 metric



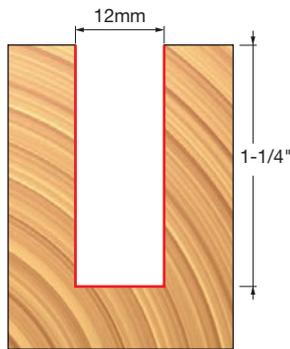
04-508 metric



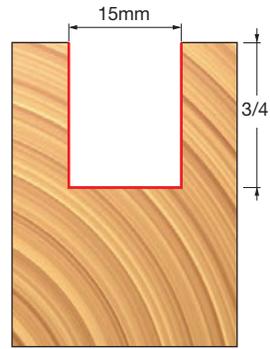
04-512 metric



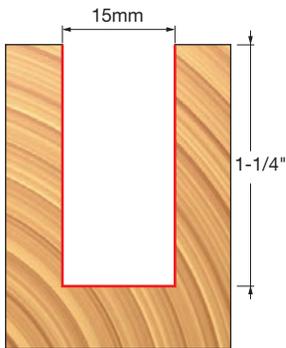
04-520 metric / 12-520 metric



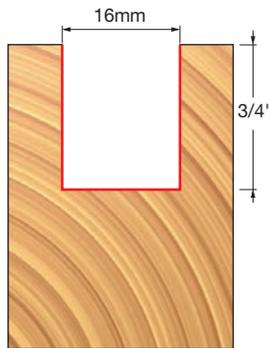
04-528 metric / 12-530 metric



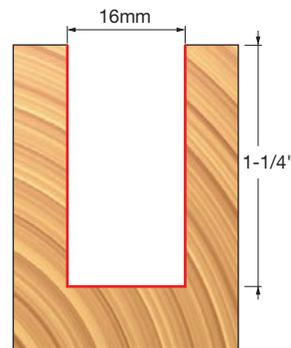
04-532 metric



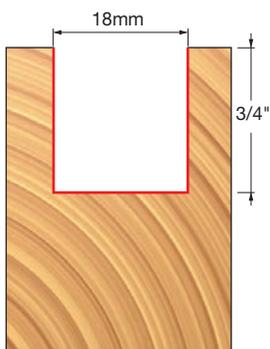
04-536 metric



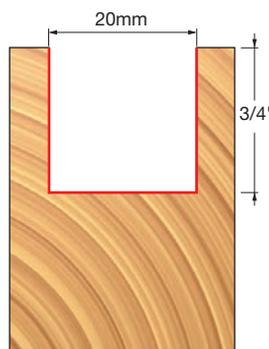
04-540 metric



04-544 metric / 12-544 metric



04-548 metric



04-552 metric

## USE IN



Table Router

Hand Router

CNC

## APPLICATION

Precise shear and hook angles for smooth finishes and end of bit relief for fast plunging in general stock removal



## ECLIPSE GRIND

Freud's Eclipse Grind™ provides optimal chip clearance for less build-up; extending the life of the bit while allowing for 2x resharpenings

## MATERIALS



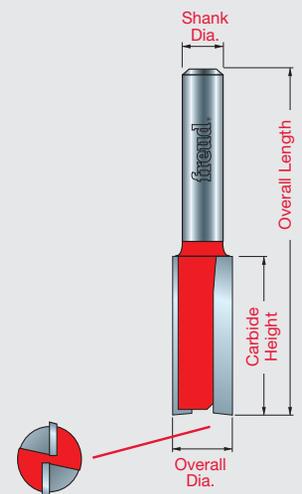
Hardwood

Softwood

Plywood

OSB

Laminate



Double Flute

\* Solid Carbide

Red Item Numbers Indicate 1/2" Shank

All Profile Drawings 1:1 Scale

# STRAIGHT, SPIRAL & TRIM BITS



## Single Flute Straight Bits

### USE IN



Table Router



Hand Router

CNC

### APPLICATION

High production work with maximum chip clearance for fast feed rates

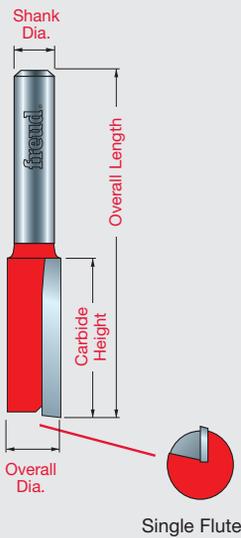
### MATERIALS



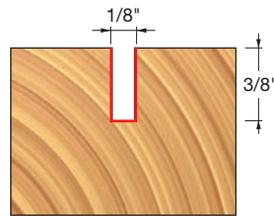
Hardwood Softwood Plywood



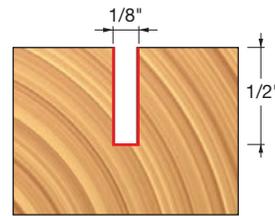
OSB Laminate



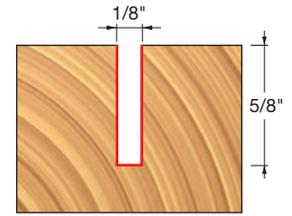
ITEM NUMBER	OVERALL DIA.	CARBIDE HEIGHT	SHANK DIA.	OVERALL LENGTH
03-112*	1/8"	3/8"	1/4"	1-1/2"
03-116*	1/8"	1/2"	1/4"	2"
03-120*	1/8"	5/8"	1/4"	2"
03-124*	3/16"	3/8"	1/4"	1-1/2"
03-128*	3/16"	1/2"	1/4"	2"
03-132*	1/4"	1/2"	1/4"	2"
03-136*	1/4"	3/4"	1/4"	2-1/2"
03-140*	1/4"	1-1/2"	1/4"	2-1/2"
03-144*	1/4"	1"	1/4"	3"
03-148	5/16"	3/4"	1/4"	2-1/2"
03-152	5/16"	1"	1/4"	2-1/2"
03-156	3/8"	1-1/4"	1/4"	2-7/8"
05-136	1/4"	3/4"	3/8"	2-3/4"
05-160	3/8"	1-1/4"	3/8"	2-7/8"
05-164	1/2"	1"	1/2"	2-7/8"
11-136	1/4"	1/2"	1/2"	2-1/2"
11-152	5/16"	1"	1/2"	2-7/8"
11-158	3/8"	1"	1/2"	3"
11-160	3/8"	1-1/4"	1/2"	3"
11-164	1/2"	1"	1/2"	2-7/16"
11-168	1/2"	1-1/4"	1/2"	2-7/8"
11-172	1/2"	1-1/2"	1/2"	3-1/8"
11-176	1/2"	2"	1/2"	4-1/8"
11-180	1/2"	2-1/2"	1/2"	4-3/8"
11-184	9/16"	1-1/4"	1/2"	2-1/2"
11-188	5/8"	1-1/4"	1/2"	2-1/2"



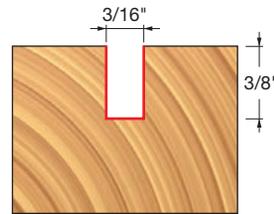
03-112



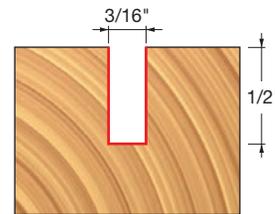
03-116



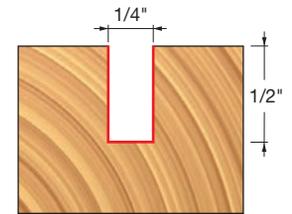
03-120



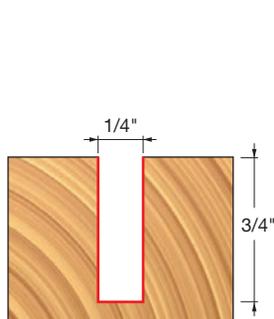
03-124



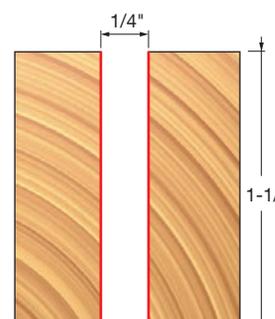
03-128



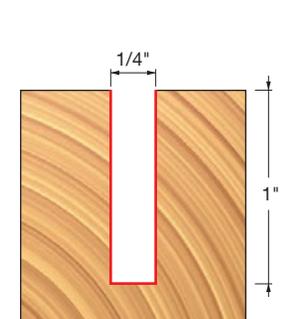
03-132 / 11-136



03-136 / 05-136



03-140



03-144

\* Solid Carbide

Red Item Numbers Indicate 1/2" Shank

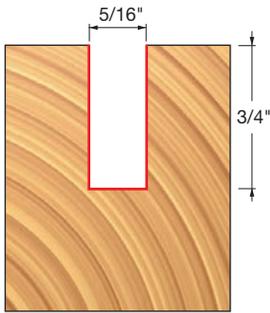
All Profile Drawings 1:1 Scale

# Single Flute Straight Bits

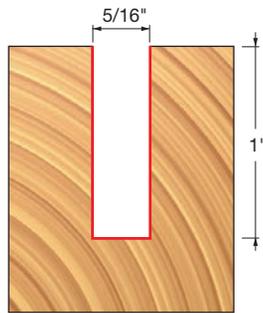


# STRAIGHT, SPIRAL & TRIM BITS

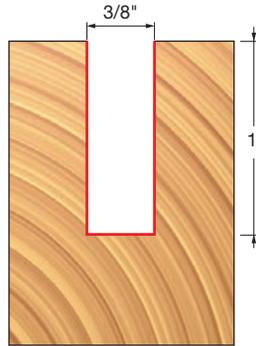
CONTINUED



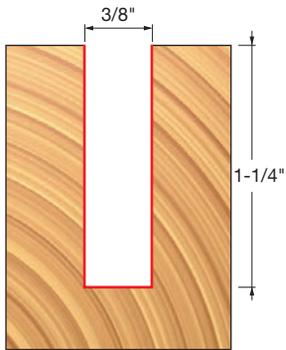
03-148



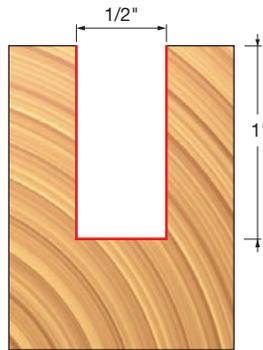
03-152 / 11-152



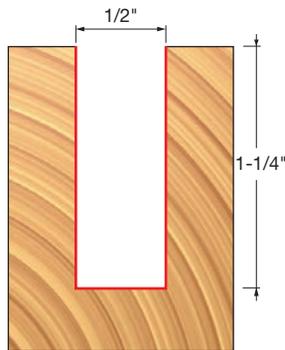
11-158



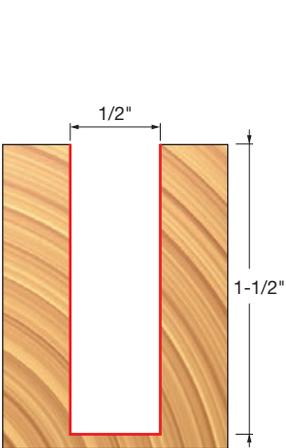
03-156 / 05-160 / 11-160



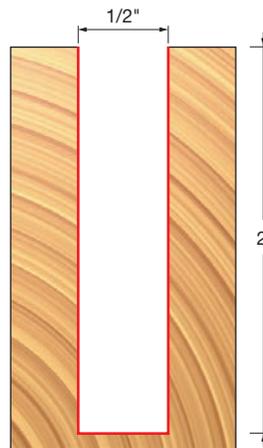
05-164 / 11-164



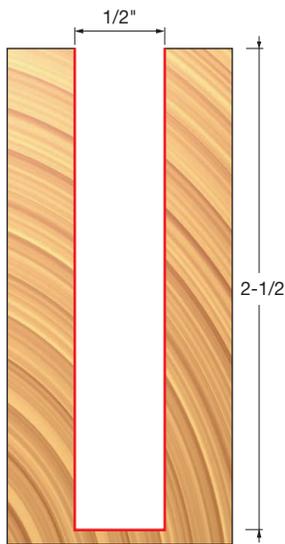
11-168



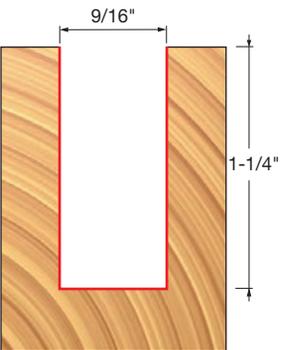
11-172



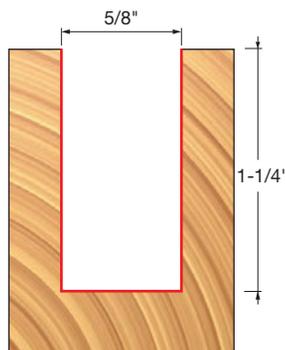
11-176



11-180



11-184



11-188

## USE IN



Table Router



Hand Router



CNC

## APPLICATION

High production work with maximum chip clearance for fast feed rates

## MATERIALS



Hardwood

Softwood

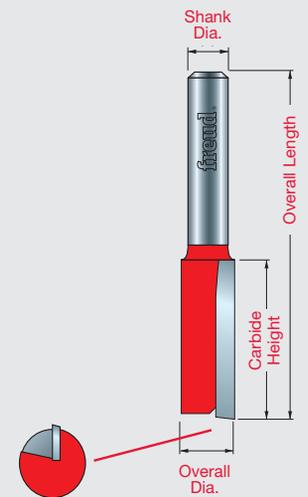
Plywood



OSB



Laminate



Single Flute

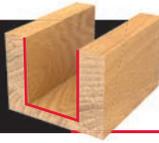
ROUTER BITS

\* Solid Carbide

Red Item Numbers Indicate 1/2" Shank

All Profile Drawings 1:1 Scale

# STRAIGHT, SPIRAL & TRIM BITS



## Mortising Bits

### USE IN



Table Router



Hand Router

CNC

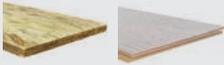
### APPLICATION

Down shear works to eliminate splintering. Ideal for hinges, mortises, and dadoses. Designed with deep center gullets for maximum material removal without chip loading.

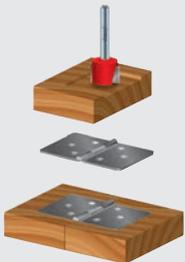
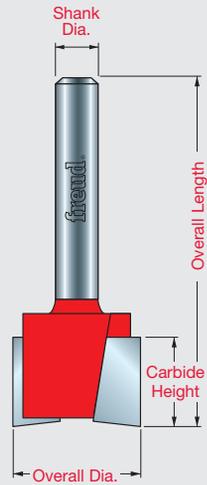
### MATERIALS



Hardwood Softwood Plywood



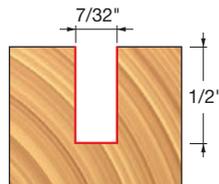
OSB Laminate



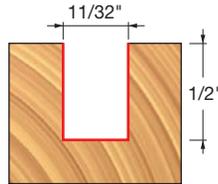
ITEM NUMBER	OVERALL DIA.	CARBIDE HEIGHT	SHANK DIA.	OVERALL LENGTH
16-096	11/32"	1/2"	1/4"	2"
16-098	15/32"	1/2"	1/4"	2"
16-100	1/2"	1/2"	1/4"	2"
16-102	5/8"	1/2"	1/4"	2"
16-103	23/32"	1/2"	1/4"	1-3/4"
16-104	3/4"	1/2"	1/4"	2"
16-106	1-1/4"	29/64"	1/4"	2-1/8"
16-094**	7/32"	1/2"	1/2"	2-1/4"
16-107**	11/32"	1/2"	1/2"	2-1/4"
16-108	1-1/4"	1/2"	1/2"	2-3/8"
16-109**	15/32"	1/2"	1/2"	2-1/4"
16-110	1/2"	1/2"	1/2"	2-3/8"
16-116**	23/32"	3/8"	1/2"	2-1/8"
16-118	3/4"	3/8"	1/2"	2-1/8"
16-120	7/8"	1-1/2"	1/2"	2-15/16"
16-122	1"	3/8"	1/2"	2-9/32"
16-128	1-1/2"	5/8"	1/2"	2-17/32"

### Top Bearing Mortising-Dado Bits

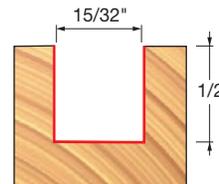
16-500	1/2"	3/4"	1/4"	2-7/16"
16-502	5/8"	3/4"	1/4"	2-7/16"
16-504	3/4"	3/4"	1/4"	2-7/16"
16-510	3/4"	3/8"	1/4"	2-3/32"
16-560*	1/2"	5/16"	1/4"	2-7/16"
16-520	3/4"	3/8"	1/2"	2-3/32"
16-522	1-1/4"	15/64"	1/2"	2"
16-523	1-1/4"	1/2"	1/2"	2-1/4"
16-524	1-1/4"	5/8"	1/2"	2-3/8"
16-528	1-1/2"	5/8"	1/2"	2-1/2"



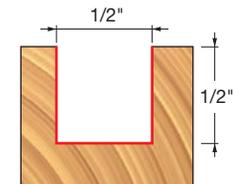
16-094



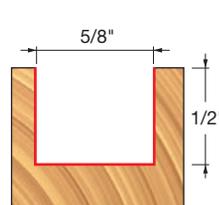
16-096 / 16-107



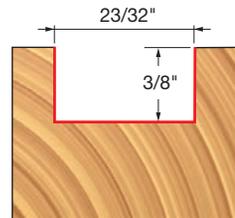
16-098 / 16-109



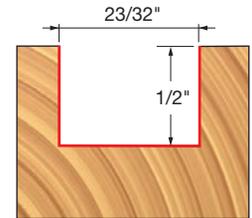
16-100



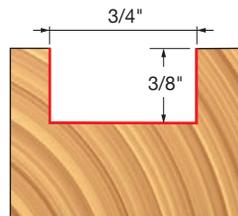
16-102



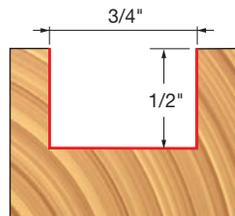
16-116



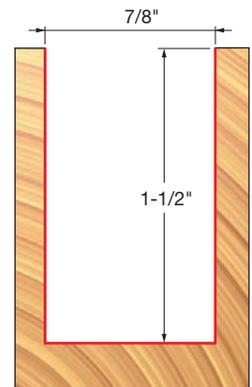
16-103



16-118



16-104



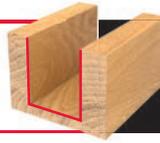
16-120

\* Overall bearing diameter is 5/8"

\*\* Downshear bits for routing plywood grooves  
Red Item Numbers Indicate 1/2" Shank

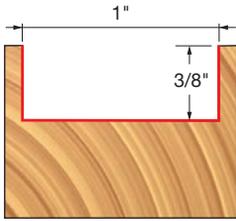
All Profile Drawings 1:1 Scale

# Mortising Bits

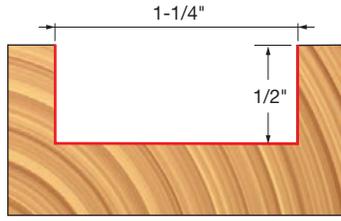


# STRAIGHT, SPIRAL & TRIM BITS

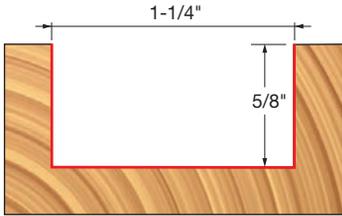
CONTINUED



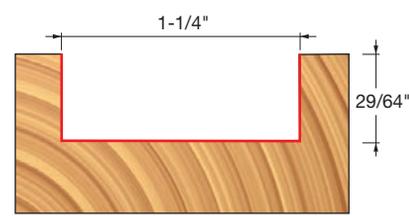
16-122



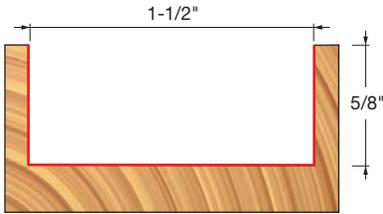
16-108



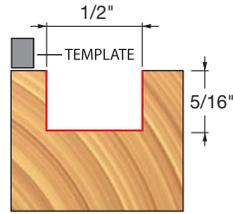
16-524 Top Bearing



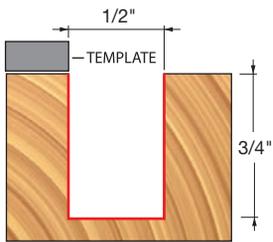
16-106



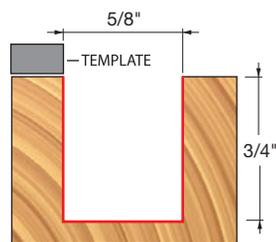
16-128



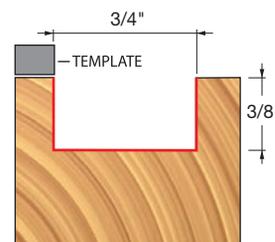
16-560\*  
\*Overall bearing diameter is 5/8"



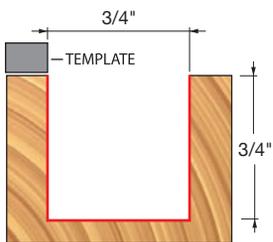
16-500 Top Bearing



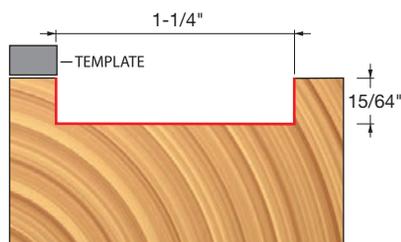
16-502 Top Bearing



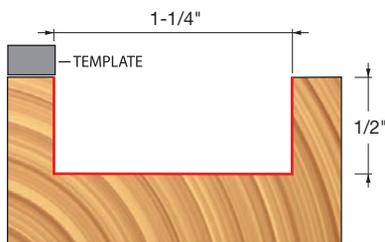
16-510 Top Bearing  
16-520 Top Bearing



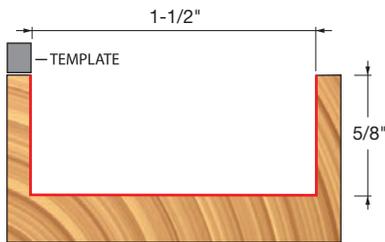
16-504 Top Bearing



16-522 Top Bearing



16-523 Top Bearing



16-528 Top Bearing

## USE IN



Table Router



Hand Router



CNC

## APPLICATION

Down shear works to eliminate splintering ideal for hinges, mortises, and dados. Designed with deep center gullets for maximum material removal without chip loading.

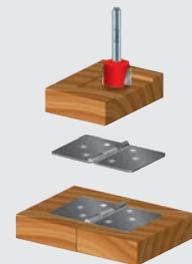
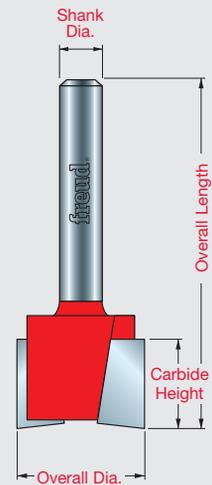
## MATERIALS



Hardwood Softwood Plywood



OSB Laminate



# STRAIGHT, SPIRAL & TRIM BITS



## Stagger Bits

### USE IN



Table Router



Hand Router

CNC

### APPLICATION

Smooth, fast cutting in thick materials. #14-204 compression bit has opposing shears for an exceptionally clean edge on both the top and bottom of the cut.

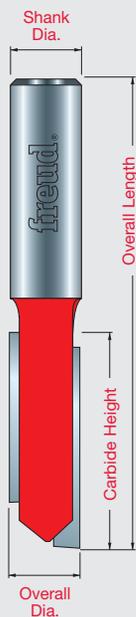
### MATERIALS



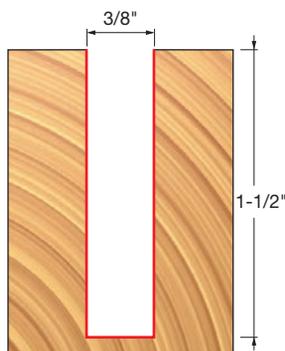
Hardwood Softwood Plywood



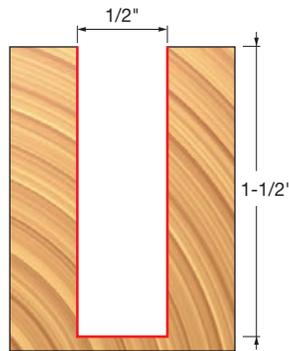
OSB Laminate



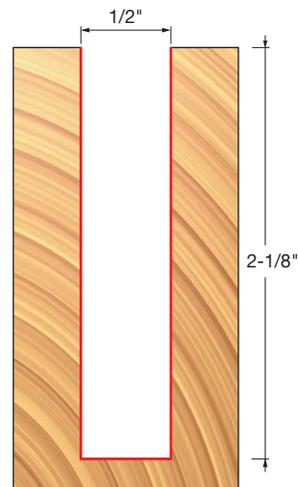
ITEM NUMBER	OVERALL DIA.	CARBIDE HEIGHT	SHANK DIA.	OVERALL LENGTH
14-102	3/8"	1-1/2"	1/2"	3-1/4"
14-104	1/2"	1-1/2"	1/2"	3-1/4"
14-106	1/2"	2-1/8"	1/2"	4"
14-204	1/2"	1-1/2"	1/2"	3-3/16"



14-102



14-104 / 14-204



14-106

# Premier Solid Carbide Spiral Bits



# STRAIGHT, SPIRAL & TRIM BITS

## Up Spiral Bits



ITEM NUMBER	OVERALL DIA.	CUTTING LENGTH	SHANK DIA.	OVERALL LENGTH
<b>Double Flute</b>				
75-100*	1/8"	1/2"	1/4"	2"
75-101*	3/16"	3/4"	1/4"	2-1/4"
75-102*	1/4"	1"	1/4"	2-1/2"
75-103*	1/4"	3/4"	1/4"	2-1/2"
75-104*	5/16"	1"	1/2"	3"
75-105*	3/8"	1-1/8"	3/8"	3"
75-106*	3/8"	1-1/4"	1/2"	3"
75-108*	1/2"	1-1/4"	1/2"	3"
75-109*	1/2"	2"	1/2"	4"
75-110*	1/2"	1-5/8"	1/2"	3-1/2"
75-112*	1/2"	2-1/8"	1/2"	4"
75-202*	5/32"	5/8"	1/4"	2"
<b>Triple Flute</b>				
75-306*	3/8"	1-1/4"	1/2"	3"
75-308*	1/2"	2"	1/2"	4"

## USE IN



Table Router

Hand Router

CNC

## APPLICATION

Cutting mortises and routing deep blind holes

## MATERIALS



Hardwood

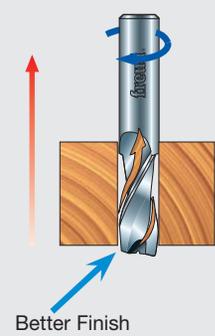
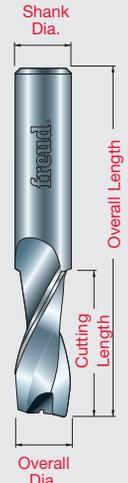
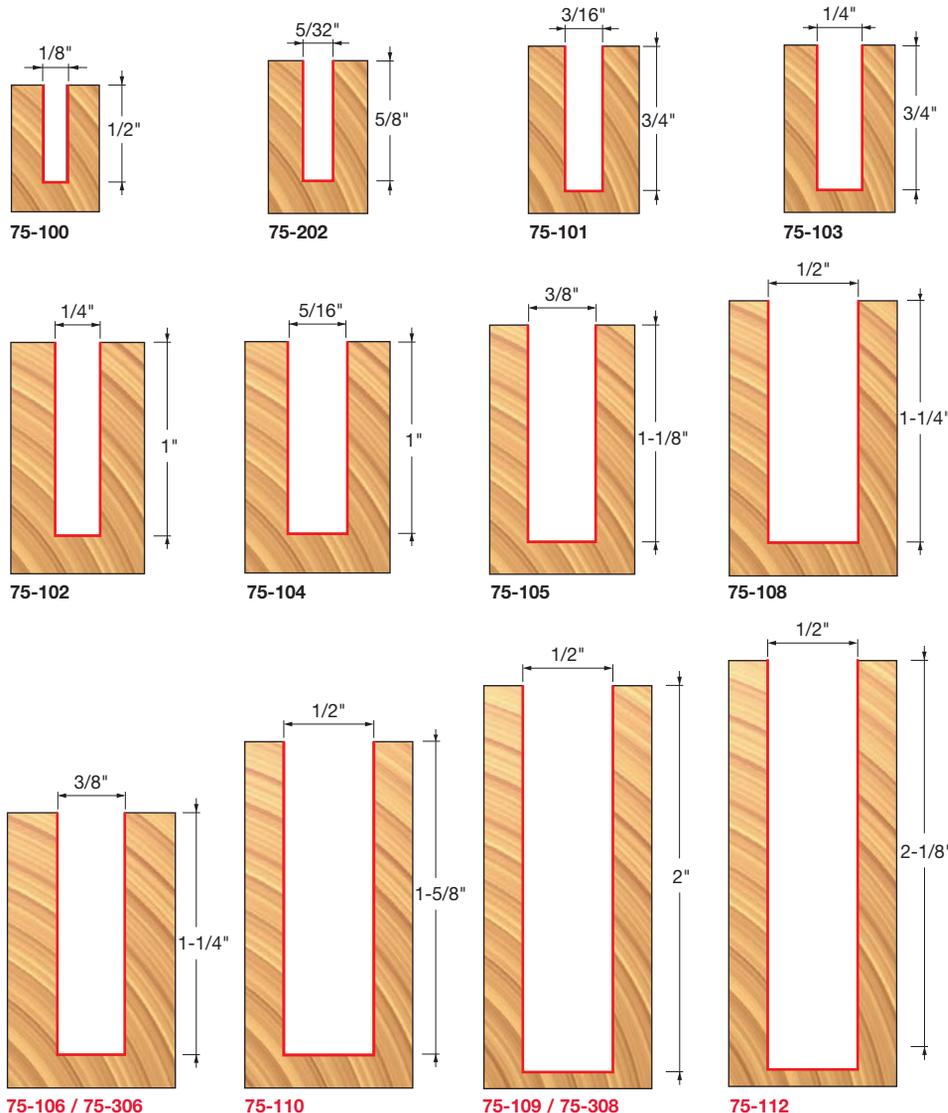
Softwood

Plywood

OSB

Laminate

ROUTER BITS



\* Solid Carbide

Red Item Numbers Indicate 1/2" Shank

All Profile Drawings 1:1 Scale

# STRAIGHT, SPIRAL & TRIM BITS



## Premier Solid Carbide Spiral Bits

### USE IN



Table Router



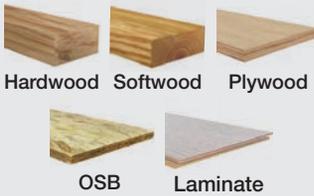
Hand Router

CNC

### APPLICATION

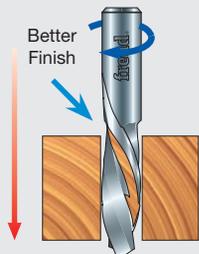
Grooves and dados in single-sided veneers and laminates. Ideal for smooth, chip-free routing where chip removal is not a problem.

### MATERIALS



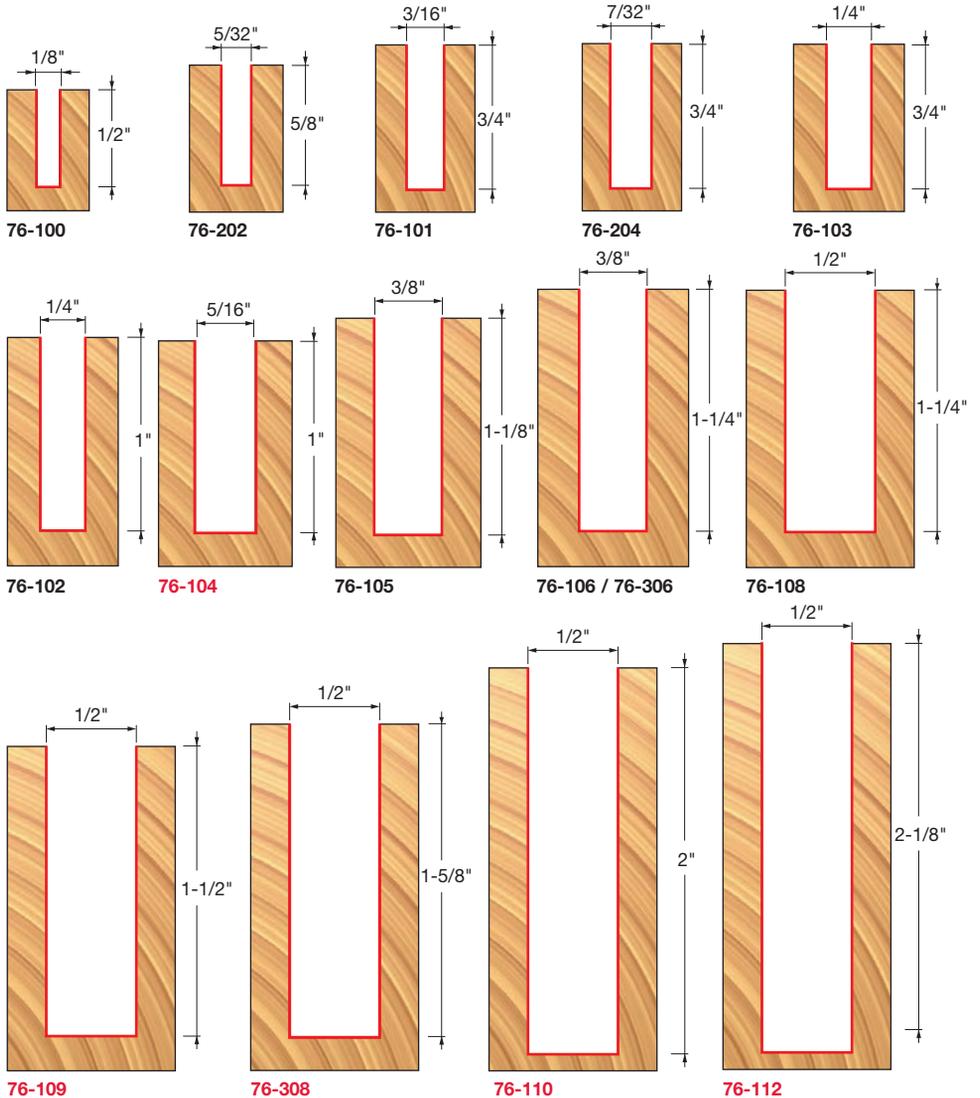
Hardwood Softwood Plywood

OSB Laminate



### CONTINUED Down Spiral Bits

ITEM NUMBER	OVERALL DIA.	CUTTING LENGTH	SHANK DIA.	OVERALL LENGTH
<b>Double Flute</b>				
76-100*	1/8"	1/2"	1/4"	2"
76-101*	3/16"	3/4"	1/4"	2-1/4"
76-102*	1/4"	1"	1/4"	2-1/2"
76-103*	1/4"	3/4"	1/4"	2-1/2"
76-104*	5/16"	1"	1/2"	2-1/2"
76-105*	3/8"	1-1/8"	3/8"	3"
76-106*	3/8"	1-1/4"	1/2"	3"
76-108*	1/2"	1-1/4"	1/2"	3"
76-109*	1/2"	1-1/2"	1/2"	4"
76-110*	1/2"	2"	1/2"	4"
76-112*	1/2"	2-1/8"	1/2"	4"
76-202*	5/32"	5/8"	1/4"	2"
76-204*	7/32"	3/4"	1/4"	2"
<b>Triple Flute</b>				
76-306*	3/8"	1-1/4"	1/2"	3"
76-308*	1/2"	1-5/8"	1/2"	4"



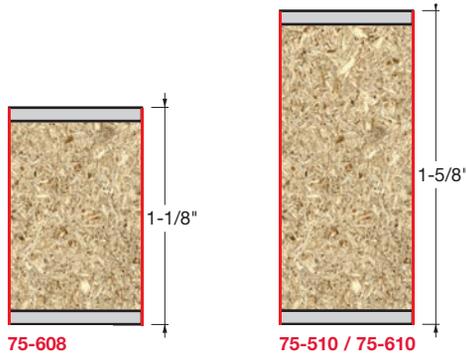
# Premier Solid Carbide Chipbreaker Spiral Bits



# STRAIGHT, SPIRAL & TRIM BITS

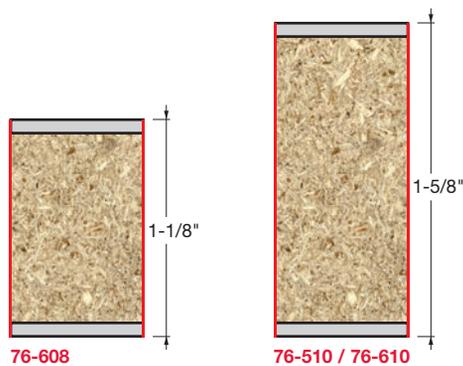
## Up Spiral Bits

ITEM NUMBER	OVERALL DIA.	CUTTING LENGTH	SHANK DIA.	OVERALL LENGTH
<b>Double Flute</b>				
75-510*	1/2"	1-5/8"	1/2"	3-1/2"
<b>Triple Flute</b>				
75-608*	1/2"	1-1/8"	1/2"	3"
75-610*	1/2"	1-5/8"	1/2"	3-1/2"



## Down Spiral Bits

ITEM NUMBER	OVERALL DIA.	CUTTING LENGTH	SHANK DIA.	OVERALL LENGTH
<b>Double Flute</b>				
76-510*	1/2"	1-5/8"	1/2"	3-1/2"
<b>Triple Flute</b>				
76-608*	1/2"	1-1/8"	1/2"	3"
76-610*	1/2"	1-5/8"	1/2"	3-1/2"



### USE IN



Table Router

Hand Router

CNC

### APPLICATION

Fast cutting applications in hard materials. Upcut spirals provide smooth finish on bottom surface, and pull chips out of the kerf. Downcut spirals provide smooth finish on the top surface of panels.

### MATERIALS



Hardwood

Softwood

Veneer

Melamine

ROUTER BITS



### Up Spiral Bits



### Down Spiral Bits



Double Flute

or



Triple Flute

CONTINUES on page 107

# STRAIGHT, SPIRAL & TRIM BITS

## Premier Solid Carbide O-Flute Spiral Bits



### USE IN



Table Router



Hand Router

CNC

### APPLICATION

Delivers cooler cuts in plastic to avoid melting, thus producing smooth finish on solid surface as well as plastic. Downcut spiral provides perfect top surface. Upcut spiral clears chips fast and provides perfect bottom surface.

### MATERIALS



Hardwood Softwood Plywood



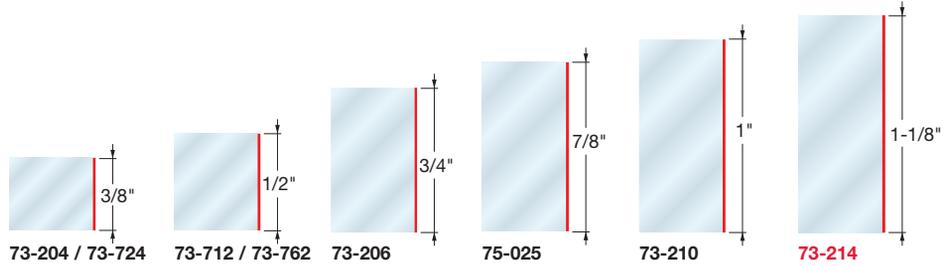
Plastic

Laminate



### Up Spiral Bits

ITEM NUMBER	OVERALL DIA.	CUTTING LENGTH	NUMBER OF FLUTES	SHANK DIA.	OVERALL LENGTH
73-712*	1/8"	1/2"	1	1/4"	2"
73-724*	1/4"	3/8"	1	1/4"	2"
73-762*	1/8"	1/2"	1	1/4"	2"
75-025*	1/4"	7/8"	1	1/4"	2-1/2"
Double Flute					
73-204*	1/4"	3/8"	2	1/4"	2-1/2"
73-206*	1/4"	3/4"	2	1/4"	1-1/2"
73-210*	3/8"	1"	2	3/8"	3"
73-214*	1/2"	1-1/8"	2	1/2"	3-1/2"



### Up Spiral Bits

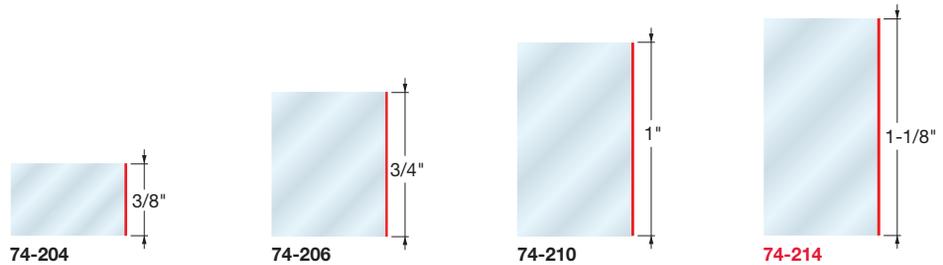


### Down Spiral Bits

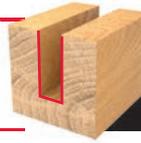


### Down Spiral Bits

ITEM NUMBER	OVERALL DIA.	CUTTING LENGTH	SHANK DIA.	OVERALL LENGTH
74-204*	1/4"	3/8"	1/4"	3"
74-206*	1/4"	3/4"	1/4"	2-1/2"
74-210*	3/8"	1"	3/8"	3"
74-214*	1/2"	1-1/8"	1/2"	3-1/2"



## Premier Solid Carbide O-Flute Straight Bits



## STRAIGHT, SPIRAL & TRIM BITS

ITEM NUMBER	OVERALL DIA.	CUTTING LENGTH	NUMBER OF FLUTES	SHANK DIA.	OVERALL LENGTH
<b>Single Flute</b>					
71-040*	1/8"	1/2"	1	1/4"	2"
71-060*	3/16"	3/4"	1	1/4"	2"
71-080*	1/4"	3/4"	1	1/4"	2-1/2"
71-100*	5/16"	13/16"	1	3/8"	2-1/2"
71-120*	3/8"	7/8"	1	3/8"	2-1/2"



### USE IN



Table Router



Hand Router

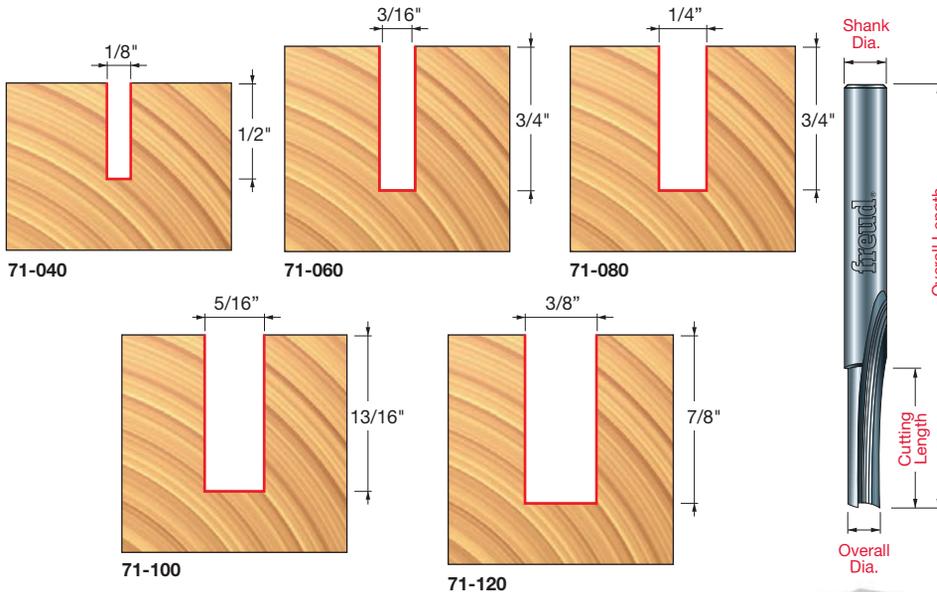


CNC

### APPLICATION

"Mirror" polished, reducing heat to give the ultimate in life with less welding or recutting of chips. Provides a clean ultra smooth, ready to use finished edge on intricate detail works

### MATERIALS



ROUTER BITS

## Diamond Compression Bits



## STRAIGHT, SPIRAL & TRIM BITS

ITEM NUMBER	OVERALL DIA.	CUTTING LENGTH	SHANK DIA.	OVERALL LENGTH
<b>Single Flute</b>				
78-116	1/2"	1"	1/2"	2-7/8"
78-136	5/8"	1"	1/2"	2-7/8"

### USE IN



Table Router



Hand Router



CNC

### APPLICATION

Fast, chip-free cutting in double sided laminates through extremely durable diamond-impregnated tips

### MATERIALS



78-116 / 78-136



\* Solid Carbide

Red Item Numbers Indicate 1/2" Shank

All Profile Drawings 1:1 Scale

# BLACK I.C.E.<sup>™</sup> ROUTER BITS

THE SLICKEST TECHNOLOGY IN  
SOLID CARBIDE ROUTER BITS



**BLACK I.C.E.<sup>™</sup> (INDUSTRIAL COOLING ELEMENT)** protects solid carbide cutting edge by creating a slick, lubricant like action for a cool cutting edge and superior chip evacuation.



**EXCLUSIVE FREUD TICO<sup>™</sup> HI-DENSITY CARBIDE** provides a sharper edge and flawless finish for less wear and **2X longer cutting life.**



**2X CUTTING LIFE = 2X THE PRODUCTIVITY**

**MULTI-AXIS GRINDING** provides consistent relief angles on the entire cutting edge, which reduces burning and provides **2x the finish quality.**

**OPEN FLUTE GEOMETRY** allows for up to **2x the resharpenings** versus existing designs on the market, resulting in increased productivity and profits. By increasing the number of times the tool can be resharpened, Freud increases the overall working life of every solid carbide bit.



**2X THE PERFORMANCE.  
2X THE PRODUCTIVITY.**

vs. standard uncoated bits

# Premier Solid Carbide Chipbreaker Spiral Bits



## STRAIGHT, SPIRAL & TRIM BITS

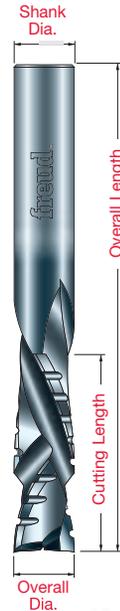
CONTINUED from page 103

### Double Compression Spiral Bits

ITEM NUMBER	OVERALL DIA.	CUTTING LENGTH	SHANK DIA.	OVERALL LENGTH
77-610	1/2"	1-5/8"	1/2"	4"



77-610



USE IN



Table Router



Hand Router



CNC

### APPLICATION

Combination of up and down shear flutes eliminates chipping on both sides of double-sided panels

### MATERIALS



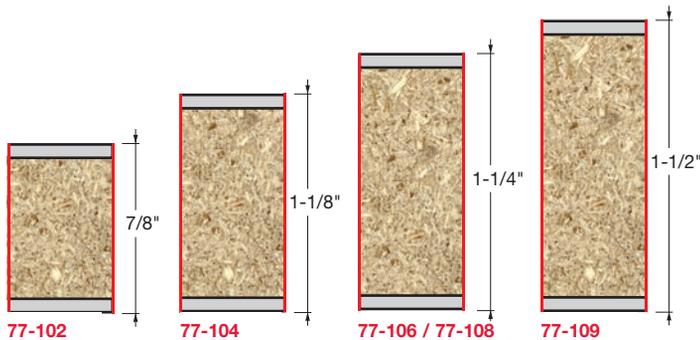
ROUTER BITS

# Premier Solid Carbide 1-Flute Compression Bit



## STRAIGHT, SPIRAL & TRIM BITS

ITEM NUMBER	OVERALL DIA.	CUTTING LENGTH	SHANK DIA.	OVERALL LENGTH	UPCUT LENGTH
77-102	1/4"	7/8"	1/4"	2-1/2"	11/32"
77-104	3/8"	1-1/8"	3/8"	3"	11/32"
77-106*	3/8"	1-1/4"	1/2"	3"	11/32"
77-108	1/2"	1-1/4"	1/2"	3"	1/32"
77-109	1/2"	1-1/2"	1/2"	3-1/2"	1/32"

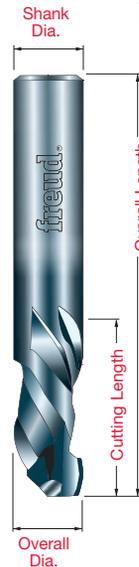


77-102

77-104

77-106 / 77-108

77-109



USE IN



Table Router



Hand Router



CNC

### APPLICATION

Fast, chip-free routing through combination of up and down shear flutes on both sides of double-sided veneers or laminated materials

### MATERIALS



\* Not Black ICE Coated

Red Item Numbers Indicate 1/2" Shank

All Profile Drawings 1:1 Scale

# STRAIGHT, SPIRAL & TRIM BITS



## Premier Solid Carbide 2-Flute Compression Bit

### USE IN



Table Router



Hand Router

CNC



ROUTER BITS

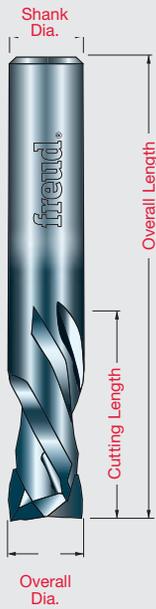
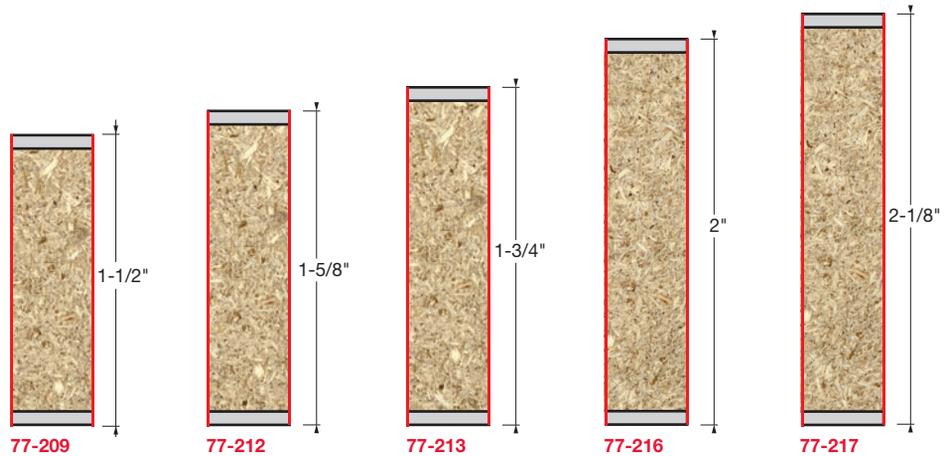
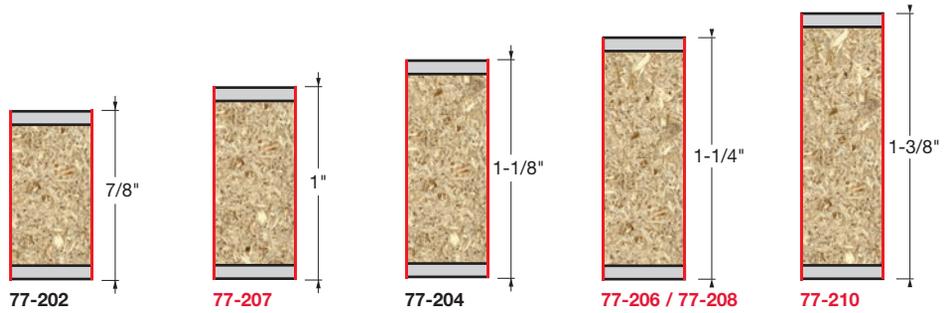
### APPLICATION

Fine finish, chip-free routing through combination of up and down shear flutes on both sides of double-sided veneers or laminated materials.

### MATERIALS



ITEM NUMBER	OVERALL DIA.	CUTTING LENGTH	SHANK DIA.	OVERALL LENGTH	UPCUT LENGTH
77-202	1/4"	7/8"	1/4"	2-1/2"	11/32"
77-204	3/8"	1-1/8"	3/8"	3"	11/32"
77-206*	3/8"	1-1/4"	1/2"	3"	11/32"
77-207	1/2"	1"	1/2"	3"	1/2"
77-208	1/2"	1-1/4"	1/2"	3"	11/32"
77-209	1/2"	1-1/2"	1/2"	3-1/2"	11/32"
77-210	1/2"	1 3/8"	1/2"	3 1/2"	5/8"
77-212	1/2"	1-5/8"	1/2"	4"	11/32"
77-213	1/2"	1 3/4"	1/2"	3 1/2"	11/32"
77-216	1/2"	2"	1/2"	4"	11/32"
77-217	1/2"	2 1/8"	1/2"	4"	3/4"



## Premier Solid Carbide 3-Flute Compression Bit



## STRAIGHT, SPIRAL & TRIM BITS

ITEM NUMBER	OVERALL DIA.	CUTTING LENGTH	SHANK DIA.	OVERALL LENGTH	UPCUT LENGTH
77-306	3/8"	1 1/4"	3/8"	3"	1/2"
77-307	1/2"	1"	1/2"	3"	1/2"
77-308	1/2"	1-1/8"	1/2"	3"	1/2"
77-310	1/2"	1 3/8"	1/2"	3 1/2"	5/8"
77-312	1/2"	1-5/8"	1/2"	3-1/2"	1/2"
77-313	1/2"	1 3/4"	1/2"	3 1/2"	3/4"



USE IN



Table Router



Hand Router

CNC

### APPLICATION

Ultra fine finish on both top and bottom surface, and fast cut in double sided veneers, laminates and solid hardwood and softwood

### MATERIALS

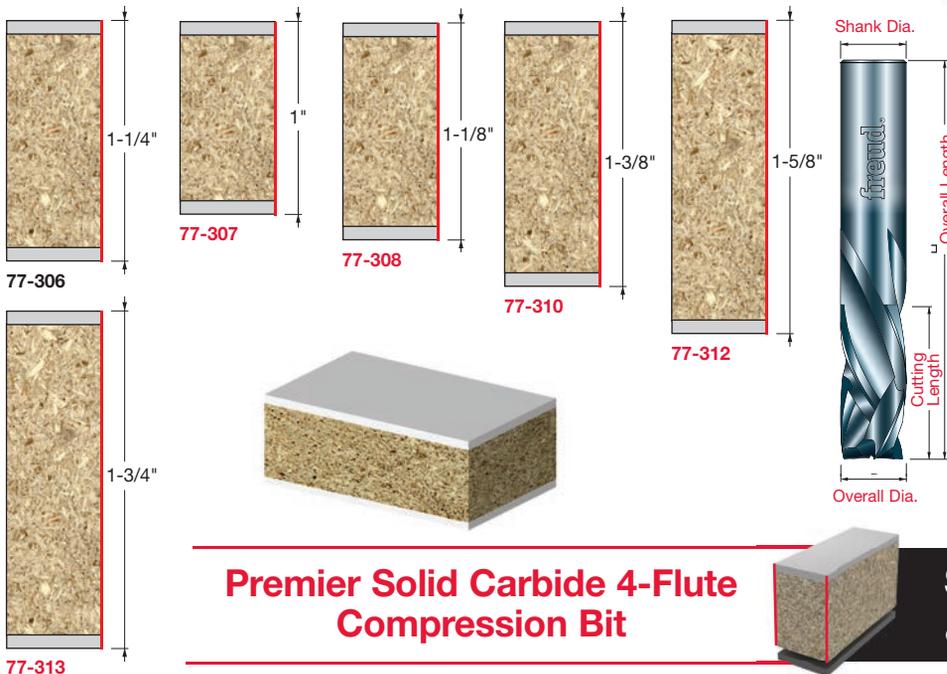


Hardwood

Softwood

Veneer

Laminate



## Premier Solid Carbide 4-Flute Compression Bit



## STRAIGHT, SPIRAL & TRIM BITS

ITEM NUMBER	OVERALL DIA.	CUTTING LENGTH	SHANK DIA.	OVERALL LENGTH	UPCUT LENGTH
77-707	1/2"	1"	1/2"	3"	1/2"
77-710	1/2"	1 3/8"	1/2"	3 1/2"	5/8"
77-713	1/2"	1 3/4"	1/2"	3 1/2"	3/4"



USE IN



Table Router



Hand Router

CNC

### APPLICATION

Ultra fine finish on both top and bottom surface, and fast cut in double sided veneers, laminates and solid hardwood and softwood

### MATERIALS

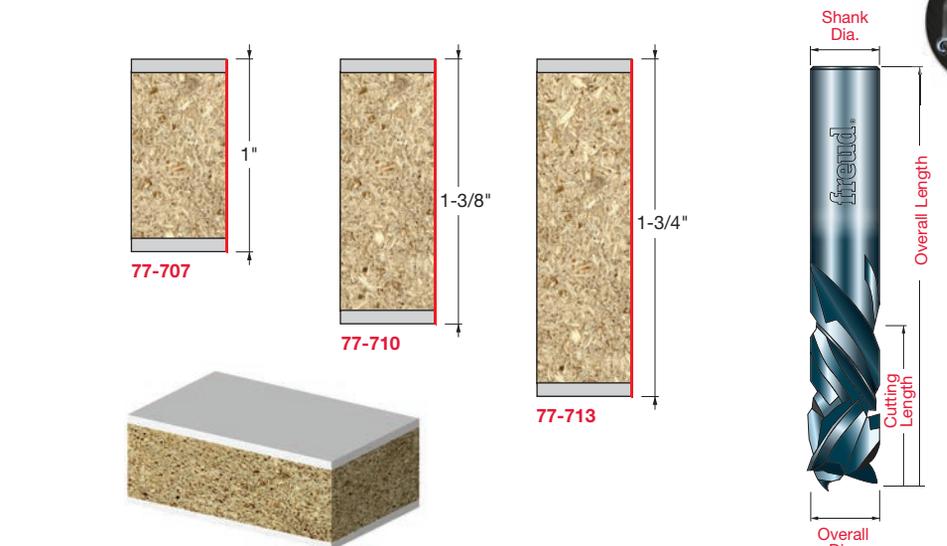


Hardwood

Softwood

Veneer

Laminate



**i** When used in a CNC, the triple flute design allows very fast feed rates and high RPM.

# STRAIGHT, SPIRAL & TRIM BITS



## Premier Solid Carbide Mortise Compression Spiral Bits

### USE IN



Table Router

Hand Router

CNC



ROUTER BITS

### APPLICATION

Shorter up shear length and combination of up and down shear flutes allows bit to be used for grooves and mortises without chipping top surface. Also ideal for through cuts in double sided sheets that are 5/8" thick or less.

### MATERIALS



Hardwood

Softwood

Veneers

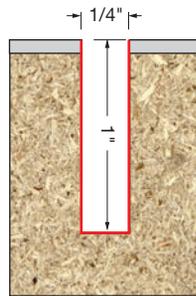
OSB

Plywood

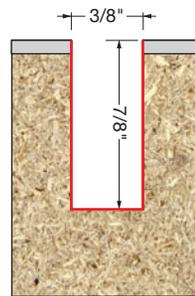
Melamine



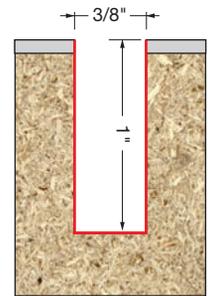
ITEM NUMBER	OVERALL DIA.	CUTTING LENGTH	NUMBER OF FLUTES	SHANK DIA.	OVERALL LENGTH	UPCUT LENGTH
<b>Single Flute</b>						
77-404	3/8"	1"	1	3/8"	3"	13/64"
77-408	1/2"	7/8"	1	1/2"	3"	15/64"
77-410	1/2"	1-3/8"	1	1/2"	3-1/2"	15/64"
<b>Double Flute (extra clean cuts at faster feed rates)</b>						
77-504	3/8"	1"	2	3/8"	3"	13/64"
77-508	1/2"	7/8"	2	1/2"	3"	15/64"
77-509	1/2"	1-1/4"	2	1/2"	3 1/2"	1/4"
77-510	1/2"	1-3/8"	2	1/2"	3-1/2"	5/16"
77-610	1/2"	1-5/8"	2	1/2"	3-1/2"	11/32"
77-614	1/2"	2-1/4"	2	1/2"	4"	1/2"
<b>Triple Flute</b>						
77-602	1/4"	1"	3	1/4"	3"	3/16"
77-603	3/8"	7/8"	3	3/8"	3"	1/4"
77-604	3/8"	1"	3	3/8"	3"	13/64"
77-605	3/8"	1-1/4"	3	3/8"	3"	1/4"
77-608	1/2"	1"	3	1/2"	3"	7/32"
77-610	1/2"	1-5/8"	3	1/2"	4"	1/32"
77-620	1/2"	1-3/8"	3	1/2"	3-1/2"	7/32"
77-622	1/2"	1-5/8"	3	1/2"	3-1/2"	7/32"
77-624	1/2"	2-1/4"	3	1/2"	4"	1/2"
<b>Quadruple Flute</b>						
77-807	1/2"	1"	4	1/2"	3"	1/4"
77-822	1/2"	1-5/8"	4	1/2"	3-1/2"	1/4"



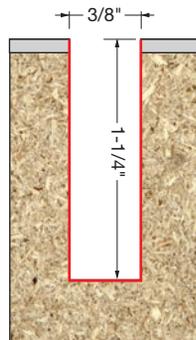
77-602



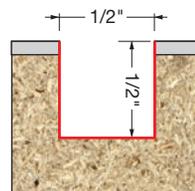
77-603



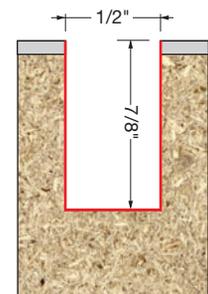
77-404 / 77-504 / 77-604



77-605



77-508



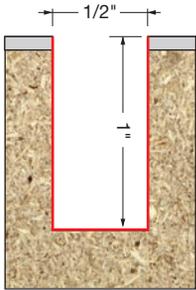
77-408

# Premier Solid Carbide Mortise Compression Spiral Bits

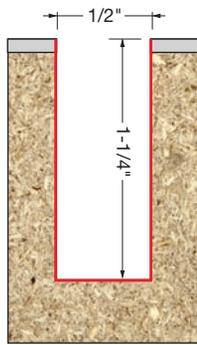


## STRAIGHT, SPIRAL & TRIM BITS

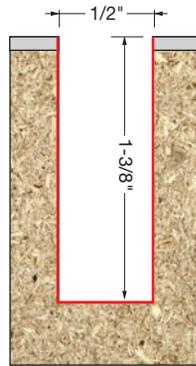
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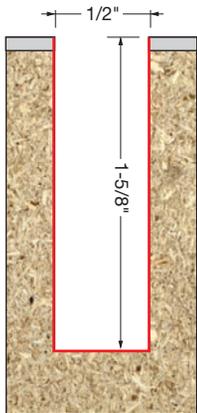
77-608 / 77-807



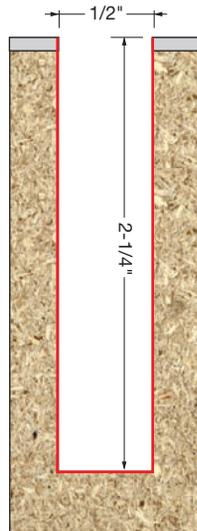
77-509



77-410 / 77-510 / 77-620



77-610 / 77-622 / 77-822



77-614 / 77-624



USE IN



Table Router



Hand Router



CNC

### APPLICATION

Shorter up shear length and combination of up and down shear flutes allows bit to be used for grooves and mortises without chipping top surface. Also ideal for through cuts in double sided sheets that are 5/8" thick or less.

### MATERIALS



ROUTER BITS

# STRAIGHT, SPIRAL & TRIM BITS



## Solid Carbide Flush Trim Bits

### USE IN



Hand Router

### APPLICATION

Cutting plastic laminate quickly and cleanly. Solid micrograin carbide extends the cutting life and the self-piloting feature eliminates the expense and upkeep of a ball bearing assembly.

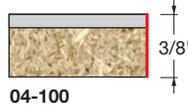
### MATERIALS



Laminates



ITEM NUMBER	OVERALL DIA.	CARBIDE HEIGHT	SHANK DIA.	OVERALL LENGTH
64-100*	1/4"	3/8"	1/4"	1-1/2"
<b>Bulk Pack (100 Pieces)</b>				
64-100A*	1/4"	3/8"	1/4"	1-1/2"



ROUTER BITS

# STRAIGHT, SPIRAL & TRIM BITS



## Panel Pilot Bits

### USE IN



Hand Router

### APPLICATION

Template work & cutting openings in paneling, siding, etc. The drill through point allows self-starting, and the pilot acts as a guide for template work.

### MATERIALS

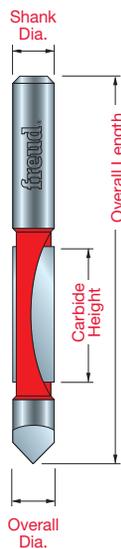


Hardwood Softwood



OSB Plywood

ITEM NUMBER	OVERALL DIA.	CARBIDE HEIGHT	SHANK DIA.	NUMBER OF FLUTES	OVERALL LENGTH
<b>Single Flute</b>					
26-100	1/4"	3/4"	1/4"	1	2-1/4"
26-104	1/2"	1-1/4"	1/2"	1	3-3/4"
70-100*	1/4"	1/4"	1/4"	1	1-5/8"
<b>Double Flute</b>					
28-100	3/8"	1"	1/4"	2	3"
28-104	1/2"	1-1/4"	1/2"	2	3-3/4"





## Super Hook Straight Bits



## STRAIGHT, SPIRAL & TRIM BITS

ITEM NUMBER	OVERALL DIA.	CARBIDE HEIGHT	SHANK DIA.	OVERALL LENGTH
13-122	1/2"	1-1/2"	1/2"	3"
13-142	5/8"	2"	1/2"	3-3/4"



### USE IN



CNC

### APPLICATION

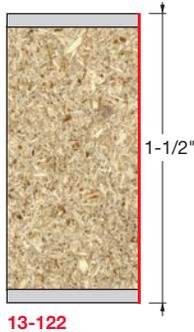
Extra fine finish on laminated surfaces. Up to 4\*\* times the life\* of conventional straight bits in melamine and other abrasive composites.

### MATERIALS

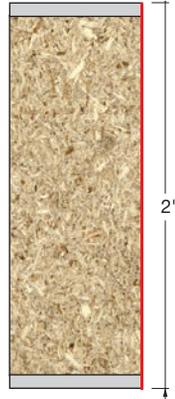


\*\* Measured using a CNC router in controlled comparison of cuts in melamine.

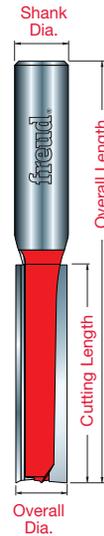
ROUTER BITS



13-122



13-142



Overall Dia.

## Downshear Helix Flush Trim Bits



## STRAIGHT, SPIRAL & TRIM BITS

ITEM NUMBER	OVERALL DIA.	BEARING DIA.	CARBIDE HEIGHT	SHANK DIA.	OVERALL LENGTH
42-202	3/4"	3/4"	1"	1/2"	3-1/8"
42-310*	3/4"	3/4"	1"	1/2"	3"
42-204	3/4"	3/4"	2"	1/2"	4-1/8"

### USE IN



Table Router

Hand Router

### APPLICATION

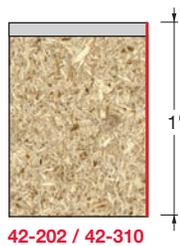
Trimming laminate counter tops and doing pattern work. Downcut spiral design produces an extra-clean top edge on delicate surfaces. Downshear cutting angle produces a slicing action for chip-free, splinter-free cuts and delivers easier, smooth cuts in thick materials.

### MATERIALS

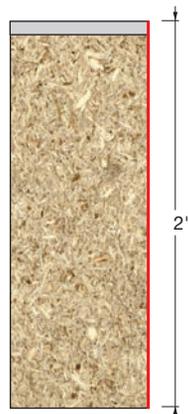


Veneer

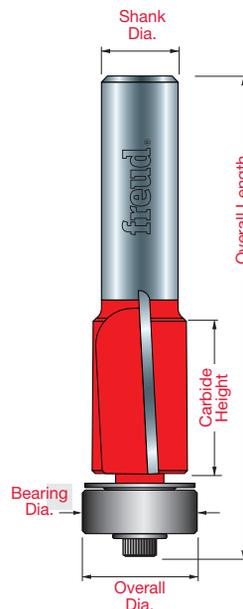
Laminate



42-202 / 42-310



42-204



Overall Dia.



\* Solid Carbide

Red Item Numbers Indicate 1/2" Shank

All Profile Drawings 1:1 Scale

# STRAIGHT, SPIRAL & TRIM BITS



## Flush Trim Spiral Bits

### USE IN



Table Router Hand Router

### APPLICATION

Perfect for any flush trim or pattern application, especially in abrasive materials like melamine or solid surface. Continuous spiral cutting action produces a super-smooth cut. Up-cut spiral design clears chips fast. Downcut spiral design produces an extra-clean top edge on delicate surfaces.



**TICO™ CARBIDE BLEND** delivers extremely long life in wood or abrasive materials.

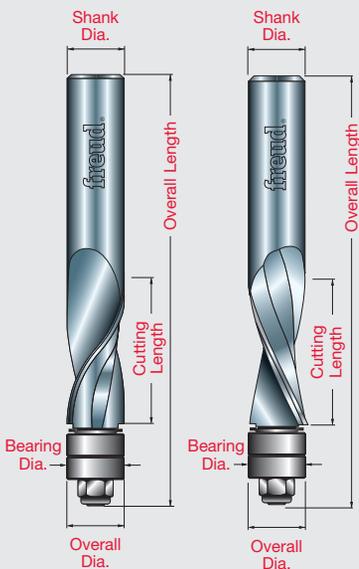
### MATERIALS



Hardwood Softwood

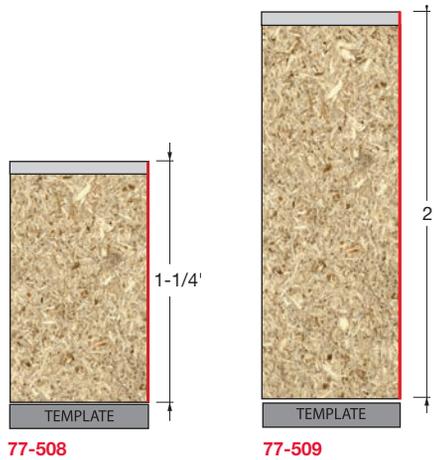
Veneer Melamine

### Up Spiral Bits Down Spiral Bits



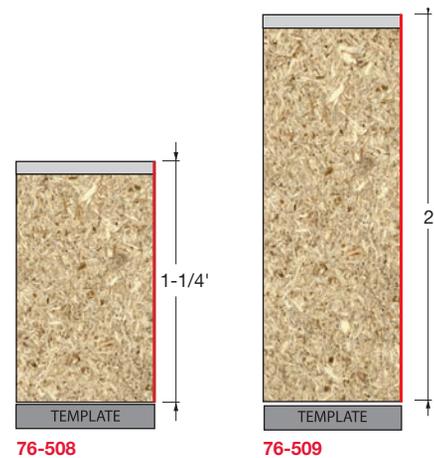
### Upcut Spiral Bits

ITEM NUMBER	OVERALL DIA.	BEARING DIA.	CUTTING LENGTH	SHANK DIA.	OVERALL LENGTH
75-508	1/2"	1/2"	1-1/4"	1/2"	3-3/4"
75-509	1/2"	1/2"	2"	1/2"	4-3/4"



### Downcut Spiral Bits

ITEM NUMBER	OVERALL DIA.	BEARING DIA.	CUTTING LENGTH	SHANK DIA.	OVERALL LENGTH
76-508	1/2"	1/2"	1-1/4"	1/2"	3-3/4"
76-509	1/2"	1/2"	2"	1/2"	4-3/4"



# Bearing Flush Trim Bits



# STRAIGHT, SPIRAL & TRIM BITS

ITEM NUMBER	OVERALL DIA.	BEARING DIA.	CUTTING LENGTH	NUMBER OF FLUTES	SHANK DIA.	OVERALL LENGTH
<b>Double Flute</b>						
42-080	7/8"	7/8"	1"	2	1/4"	3"
42-090	3/4"	3/4"	1"	2	1/4"	2-15/16"
42-100	3/8"	3/8"	1"	2	1/4"	2-13/16"
42-102	3/8"	3/8"	1/2"	2	1/4"	2-13/32"
42-104	1/2"	1/2"	1"	2	1/4"	2-13/16"
42-106	1/2"	1/2"	1/2"	2	1/4"	2-1/8"
42-108	1/2"	1/2"	1"	2	3/8"	2-15/16"
42-109	1/2"	1/2"	1/2"	2	1/2"	2-7/8"
42-110	1/2"	1/2"	1"	2	1/2"	3-1/4"
42-114	1/2"	1/2"	1-1/2"	2	1/2"	3-5/8"
42-116	1/2"	1/2"	2"	2	1/2"	4-3/8"
42-118	3/4"	3/4"	1"	2	1/2"	3-1/4"
<b>Triple Flute</b>						
44-100	1/2"	1/2"	1"	3	1/4"	2-13/16"
44-102	1/2"	1/2"	1/2"	3	1/4"	2-1/8"
44-104	1/2"	1/2"	1"	3	1/2"	3-1/4"
44-108	1/2"	1/2"	1-1/2"	3	1/2"	3-5/8"

## USE IN



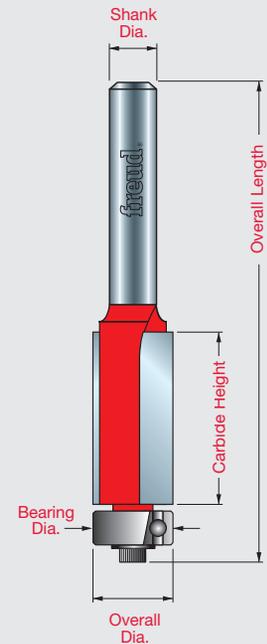
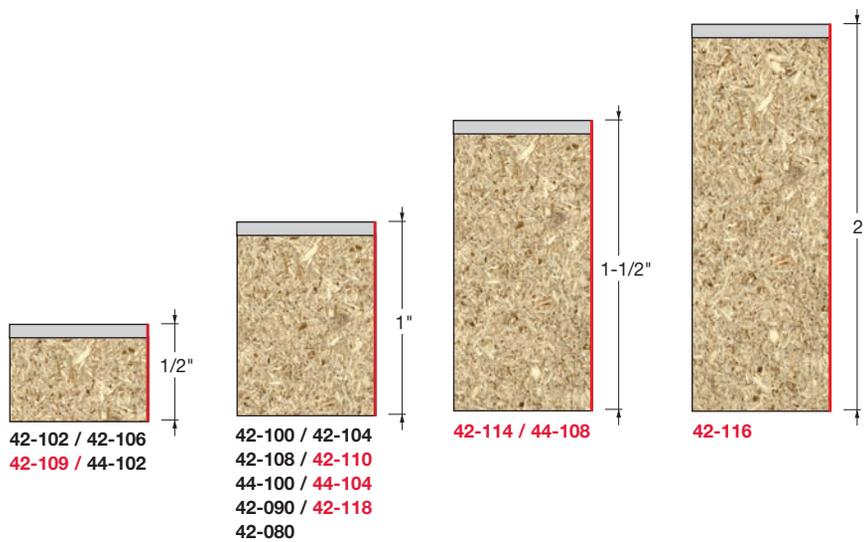
## APPLICATION

Trimming laminate counter tops and doing pattern work. These are the bits to rely on for a smooth, burn-free cut. Two flutes provide faster cutting and three flutes yield a superior finish.

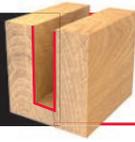
## MATERIALS



ROUTER BITS



# STRAIGHT, SPIRAL & TRIM BITS



## Top Bearing Flush Trim Bits

### USE IN



Table Router Hand Router

### APPLICATION

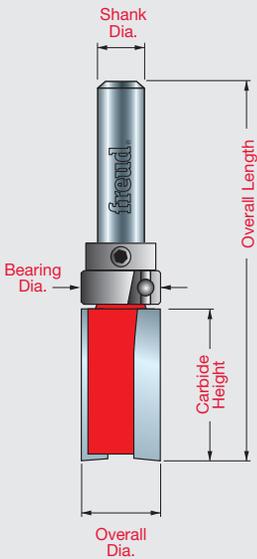
Template work and lettering. The top mounted bearings on these bits make them ideal for lettering and other template work where the work piece is being grooved or routed out.

### MATERIALS

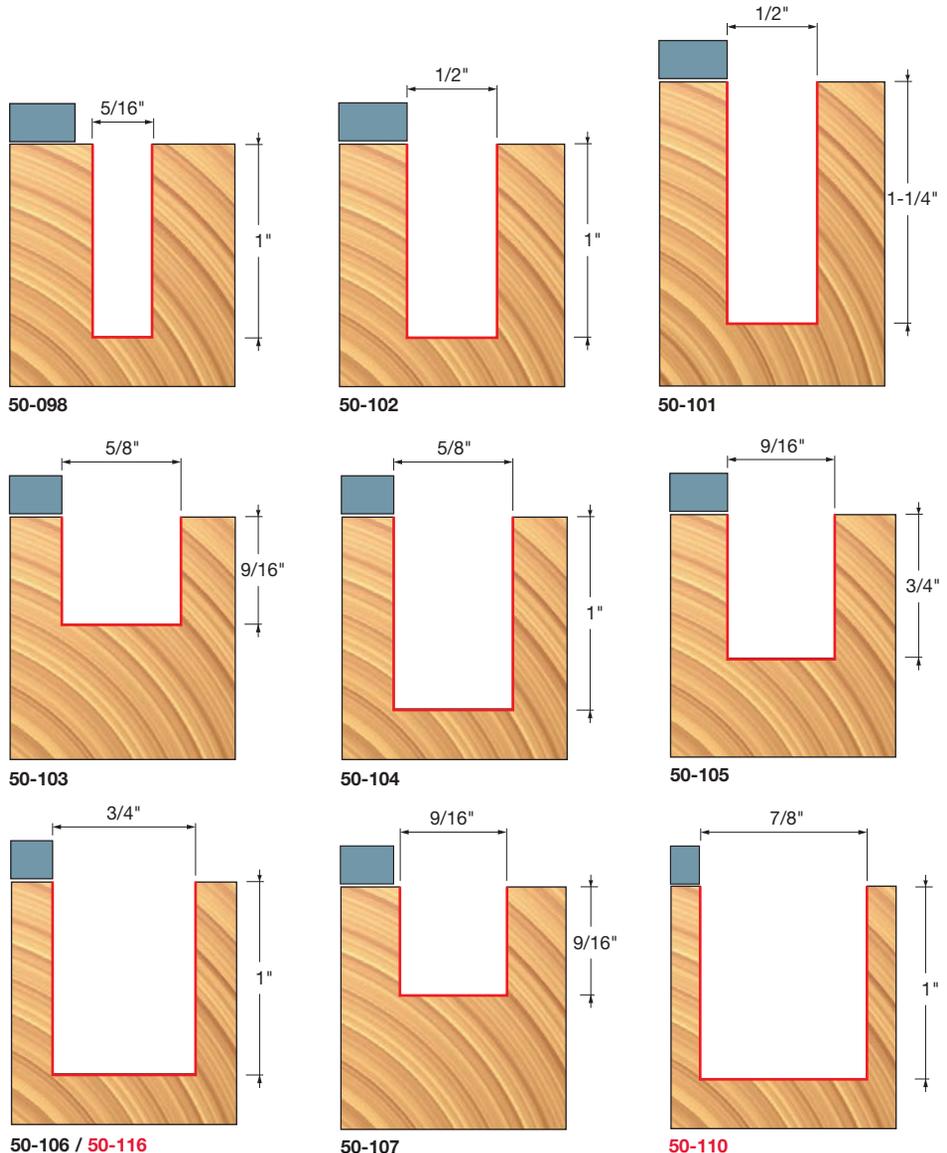


Hardwood Softwood

OSB Plywood



ITEM NUMBER	OVERALL DIA.	BEARING DIA.	CARBIDE HEIGHT	SHANK DIA.	OVERALL LENGTH
50-098*	5/16"	1/2"	1"	1/4"	2-23/32"
50-101	1/2"	1/2"	1-1/4"	1/4"	2-1/2"
50-102	1/2"	1/2"	1"	1/4"	2-5/8"
50-103	5/8"	5/8"	9/16"	1/4"	2-1/4"
50-104	5/8"	5/8"	1"	1/4"	2-5/8"
50-105	9/16"	9/16"	3/4"	1/4"	2-5/16"
50-106	3/4"	3/4"	1"	1/4"	2-5/8"
50-107	9/16"	5/8"	9/16"	1/4"	2-5/16"
50-110	7/8"	7/8"	1"	1/2"	2-13/16"
50-112	1"	1"	1"	1/2"	2-3/4"
50-116	3/4"	3/4"	1"	1/2"	2-13/16"
50-118	3/4"	3/4"	1-3/4"	1/2"	3-1/2"
50-122	1-1/8"	1-1/8"	1-1/2"	1/2"	3-3/8"
50-126	1-1/4"	1-1/4"	1-1/2"	1/2"	3-3/8"
50-130	1-1/2"	1-1/2"	1-3/4"	1/2"	3-3/4"
50-138	2"	2"	2"	1/2"	4"



50-106 / 50-116

50-107

50-110

\* This bit has an oversized bearing to work for various jigs.

Red Item Numbers Indicate 1/2" Shank

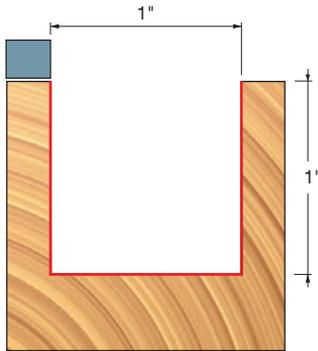
All Profile Drawings 1:1 Scale

# Top Bearing Flush Trim Bits

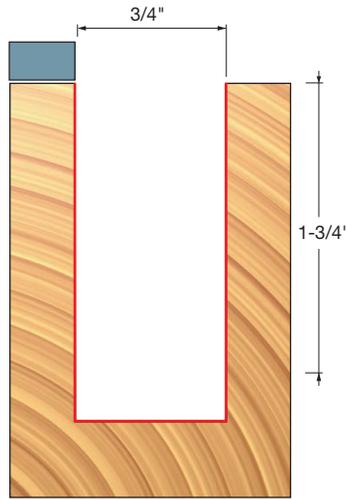


# STRAIGHT, SPIRAL & TRIM BITS

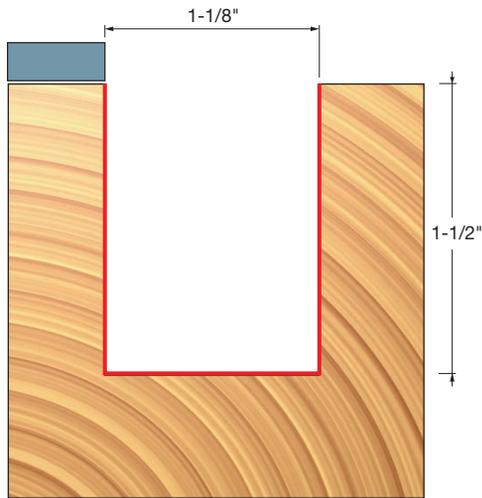
CONTINUED from page 103



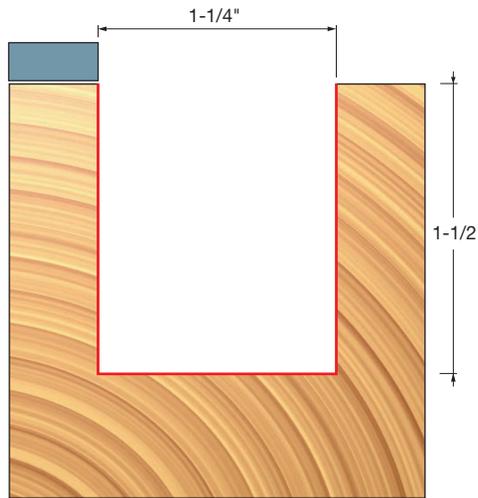
50-112



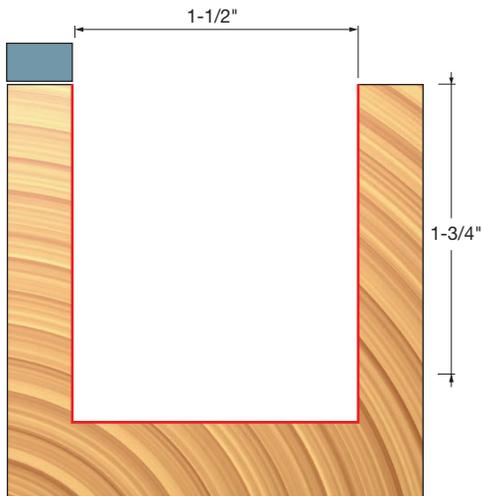
50-118



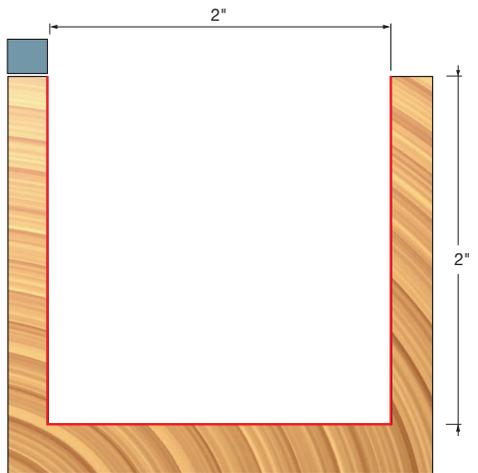
50-122



50-126



50-130



50-138

## USE IN



Table Router Hand Router

## APPLICATION

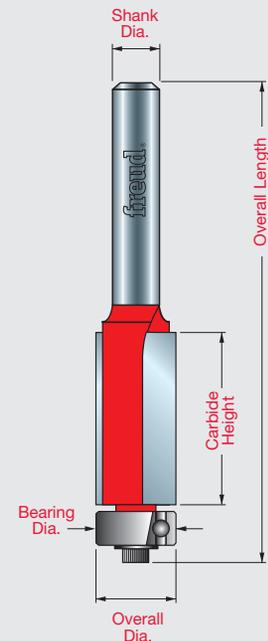
Trimming laminate counter tops and doing pattern work. These are the bits to rely on for a smooth, burn-free cut. Two flutes provide faster cutting and three flutes yield a superior finish.

## MATERIALS



Hardwood Softwood Plywood

OSB Laminate



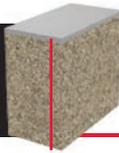
ROUTER BITS

\* Solid Carbide

Red Item Numbers Indicate 1/2" Shank

All Profile Drawings 1:1 Scale

# STRAIGHT, SPIRAL & TRIM BITS



## Top & Bottom Bearing Flush Trim Bit

### USE IN



Table Router Hand Router

### APPLICATION

Trimming laminate counter tops and doing pattern work. Double bearing design allows you to choose the cutting direction. Lets you rout half the curve in one direction, flip the work piece over and rout the other half in the opposite direction without repositioning your pattern.

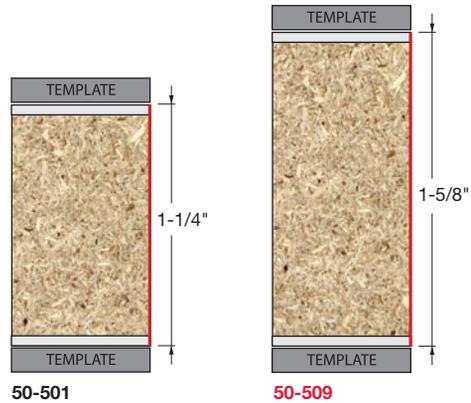
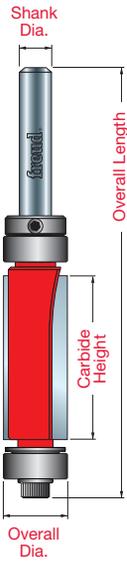
### MATERIALS



Hardwood Softwood

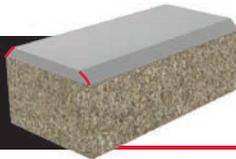
Veneer Laminate

ITEM NUMBER	OVERALL DIA.	BEARING DIA.	CARBIDE HEIGHT	SHANK DIA.	OVERALL LENGTH
50-501	1/2"	1/2"	1-1/4"	1/4"	3-5/16"
50-509	3/4"	3/4"	1-5/8"	1/2"	3-7/8"



ROUTER BITS

# STRAIGHT, SPIRAL & TRIM BITS



## Bevel Trim Bits

### USE IN



Table Router Hand Router

### APPLICATION

Cutting bevels in plastic laminates for a clean, finished edge

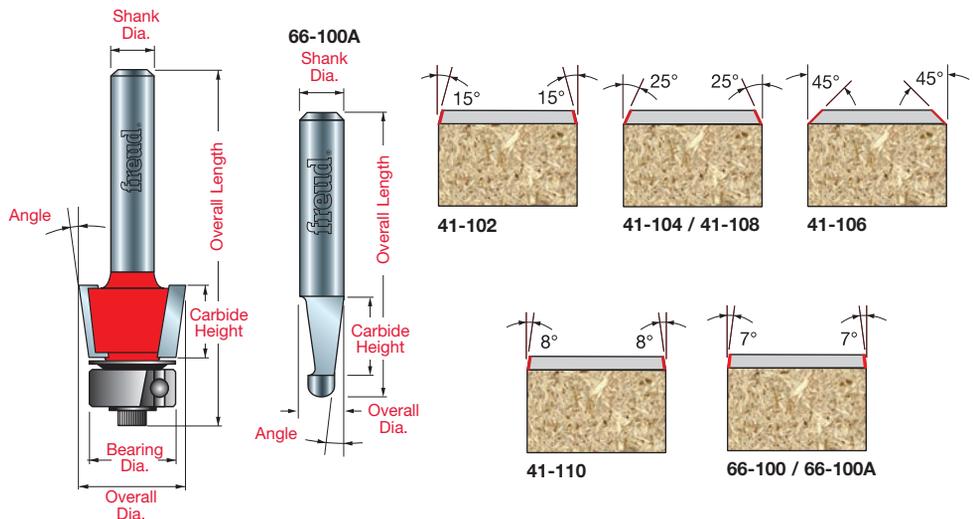
### MATERIALS



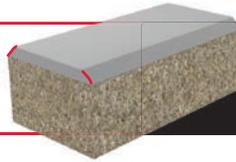
Hardwood Softwood

OSB Plywood

ITEM NUMBER	OVERALL DIA.	BEARING DIA.	CARBIDE HEIGHT	ANGLE	SHANK DIA.	OVERALL LENGTH
41-102	19/32"	1/2"	9/32"	15°	1/4"	1-7/8"
41-104	19/32"	1/2"	9/32"	25°	1/4"	1-7/8"
41-106	31/32"	1/2"	1/4"	45°	1/4"	1-7/8"
41-108	25/32"	3/8"	29/64"	25°	1/4"	1-15/16"
41-110	9/16"	1/2"	13/32"	8°	1/4"	2"
66-100*	1/4"	3/16"	1/4"	7°	1/4"	1-1/2"
<b>Bulk Pack (100 Pieces of #66-100)</b>						
66-100A*	1/4"	3/16"	1/4"	7°	1/4"	1-1/2"

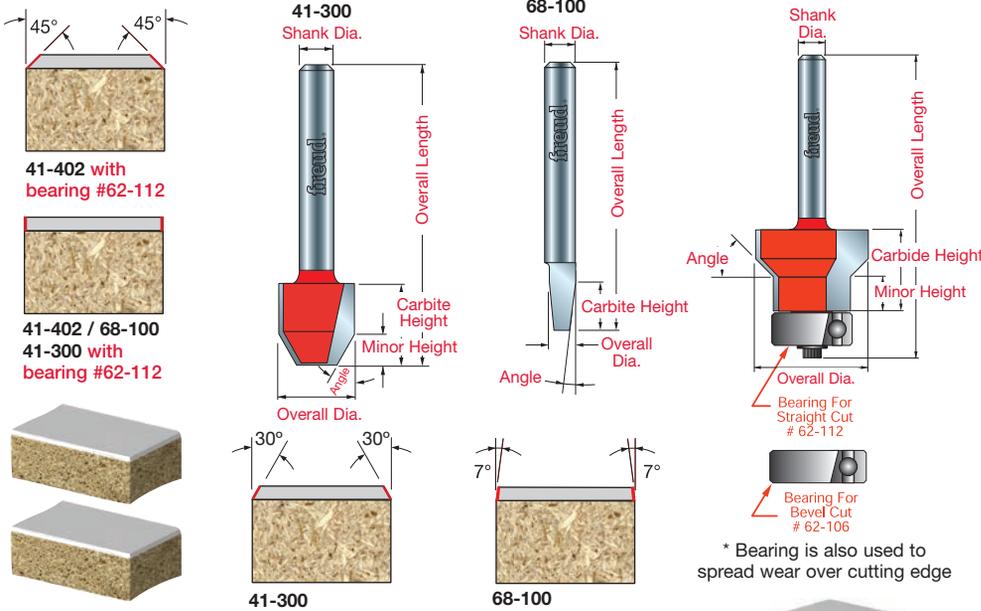


## Flush & Bevel Trim Bits



## STRAIGHT, SPIRAL & TRIM BITS

ITEM NUMBER	OVERALL DIA.	CARBIDE HEIGHT	MINOR HEIGHT	ANGLE	SHANK DIA.	OVERALL LENGTH
41-300	15/32"	1/2"	3/16"	30°	1/4"	1-25/32"
41-402	7/8"	5/8"	39/64"	45°	1/4"	2-1/4"
68-100*	1/4"	3/8"	11/64"	7°	1/4"	1-1/2"



### USE IN



Table Router Hand Router

### APPLICATION

Trimming plastic laminate with straight or beveled edge on a router equipped with a guide system. Bit 41-402 is self-guided and comes with two bearings that spread wear evenly on the cutting edge and allow the bit to straight trim or create a 45° bevel.

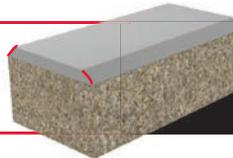
### MATERIALS



All Plastic Laminates

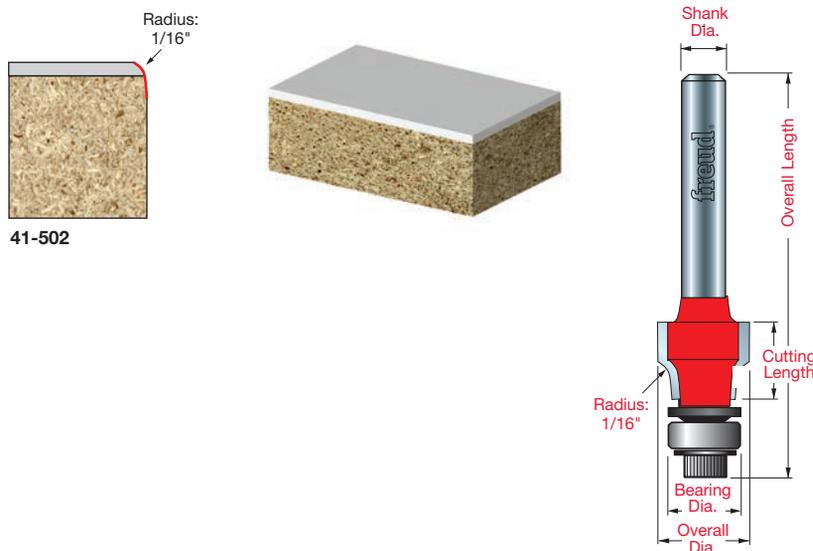
ROUTER BITS

## Radius Laminate Trim Bit



## STRAIGHT, SPIRAL & TRIM BITS

ITEM NUMBER	OVERALL DIA.	BEARING DIA.	CARBIDE HEIGHT	SHANK DIA.	OVERALL LENGTH
41-502	1/2"	3/8"	1/16"	1/4"	2"



### USE IN



Table Router Hand Router

### APPLICATION

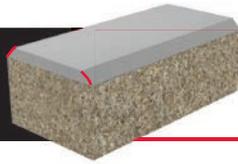
Routs plastic laminate edges flush and rounded in a single pass-reducing time and aggravation. Unique cutting geometry produces an ultra-smooth finish on laminate edges.

### MATERIALS



Countertop-grade laminates including Formica®, Wilsonart® and similar materials

# STRAIGHT, SPIRAL & TRIM BITS



## Insert Bevel Trim Bits

### USE IN



Table Router Hand Router

### APPLICATION

Creating a clean, beveled edge for plastic laminate. Replacement throwaway knives (CG01MBA3) can be rotated for multiple cutting edges so you always have a sharp edge.

### MATERIALS

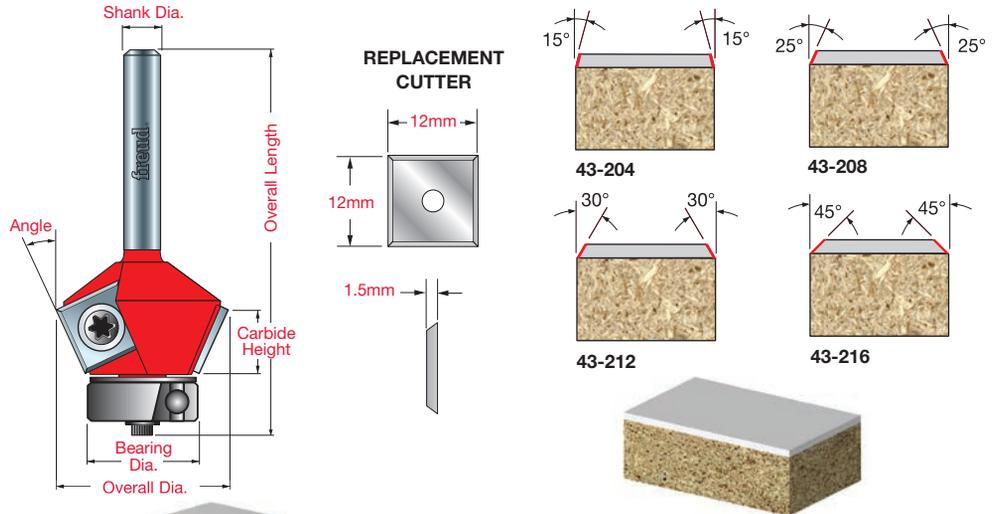


Plastic Laminate

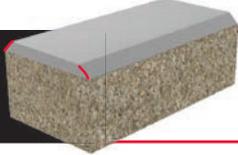
ITEM NUMBER	OVERALL DIA.	BEARING DIA.	CARBIDE HEIGHT	ANGLE	SHANK DIA.	OVERALL LENGTH
43-204	15/16"	3/4"	29/64"	15°	1/4"	2-1/4"
43-208	1-1/8"	3/4"	7/16"	25°	1/4"	2-1/4"
43-212	1-11/64"	3/4"	13/32"	30°	1/4"	2-5/16"
43-216	1-23/64"	3/4"	15/64"	45°	1/4"	2-5/8"

### Replacement Cutters

CG01MBA3	12mm (length) x 12mm (height) x 1.5mm (thick)	4 Cutting Edges
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# STRAIGHT, SPIRAL & TRIM BITS



## Laminate Miter Joint Bits

### USE IN



Table Router Hand Router

### APPLICATION

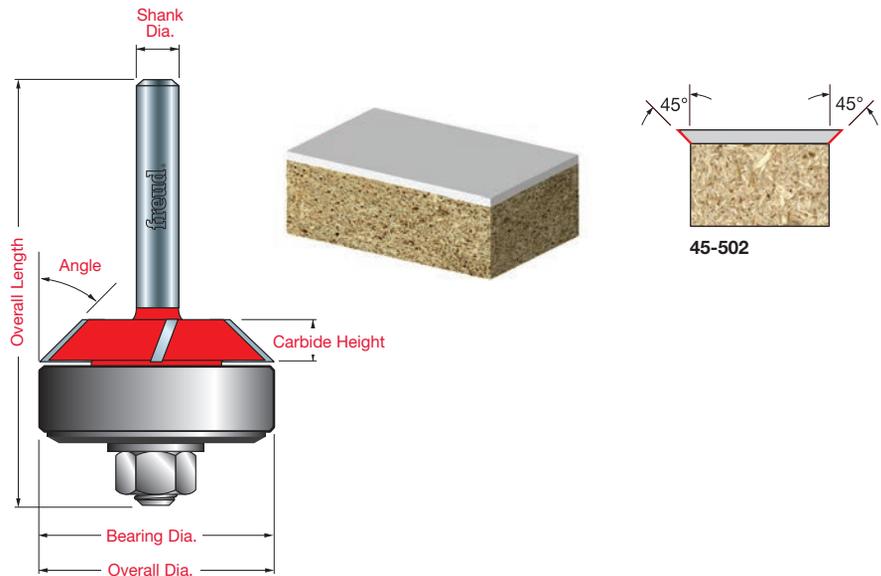
Cut plastic laminates quickly and cleanly and help eliminate the dark line often seen on the edge of counter tops by producing 45° miter joints

### MATERIALS



Plastic Laminate

ITEM NUMBER	OVERALL DIA.	BEARING DIA.	CARBIDE HEIGHT	ANGLE	SHANK DIA.	OVERALL LENGTH
45-502	1-3/8"	1-3/8"	1/4"	45°	1/4"	2-3/8"

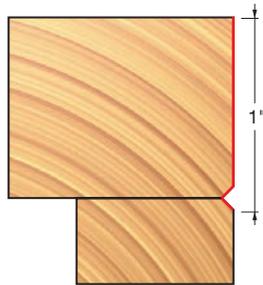


# Flush Trim "V" Groove Bits



# STRAIGHT, SPIRAL & TRIM BITS

ITEM NUMBER	OVERALL DIA.	CARBIDE HEIGHT	MINOR HEIGHT	ANGLE	SHANK DIA.	OVERALL LENGTH
48-102	5/8"	1/2"	1/2"	1"	1/4"	2-13/16"
48-112	5/8"	1/2"	1/2"	1"	1/2"	3-1/4"



48-102 / 48-112

## USE IN



Table Router Hand Router

## APPLICATION

Adds small, decorative "V" groove while bringing a cabinet frame flush with the front of the cabinet, or trimming a laminated top

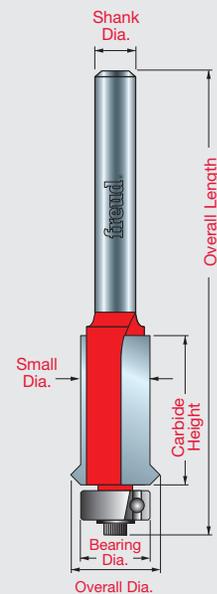
## MATERIALS



Hardwood Softwood

OSB Plywood

ROUTER BITS

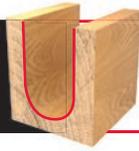


\* Solid Carbide

Red Item Numbers Indicate 1/2" Shank

All Profile Drawings 1:1 Scale

# EDGE TREATMENT & GROOVING BITS



## Round Nose Bits

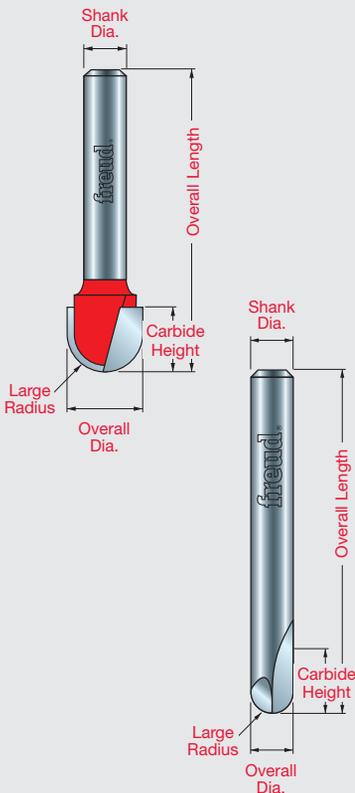
### USE IN



### APPLICATION

Fluted millwork, signs and decorative veining. Add a personal touch to cabinet doors, drawer fronts, and fluted millwork, or use these bits to engrave wood signs.

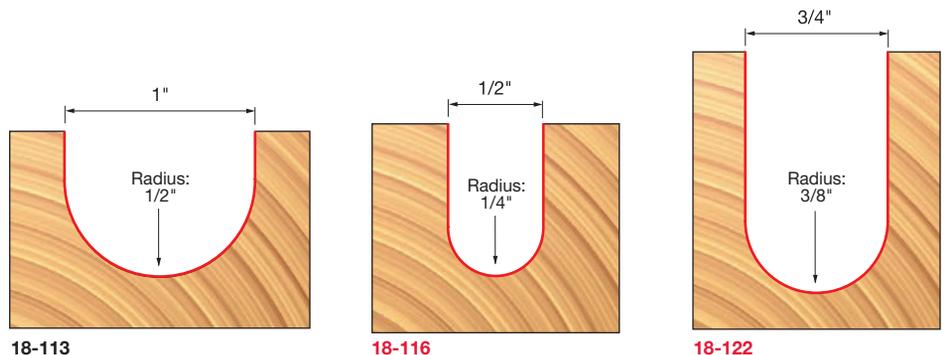
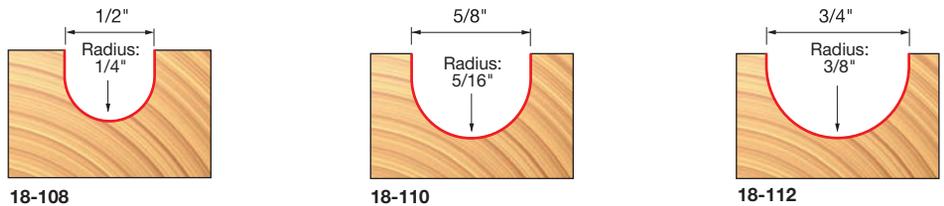
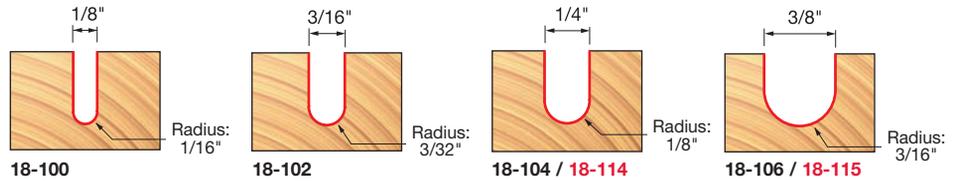
### MATERIALS



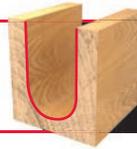
ITEM NUMBER	OVERALL DIA.	CARBIDE HEIGHT	RADIUS	SHANK DIA.	OVERALL LENGTH
18-100*	1/8"	3/8"	1/16"	1/4"	2"
18-102*	3/16"	3/8"	3/32"	1/4"	2"
18-104*	1/4"	3/8"	1/8"	1/4"	2"
18-106	3/8"	3/8"	3/16"	1/4"	1-13/16"
18-108	1/2"	3/8"	1/4"	1/4"	1-13/16"
18-110	5/8"	7/16"	5/16"	1/4"	2"
18-112	3/4"	7/16"	3/8"	1/4"	2"
18-113	1"	3/4"	1/2"	1/4"	2-3/16"
18-114	1/4"	3/8"	1/8"	1/2"	2-1/4"
18-115	3/8"	3/8"	3/16"	1/2"	2-1/4"
18-116	1/2"	1-1/8"	1/4"	1/2"	2-13/16"
18-122	3/4"	1-1/4"	3/8"	1/2"	2-13/16"
18-126	1"	1-1/4"	1/2"	1/2"	2-13/16"
18-130	1-1/4"	3/4"	5/8"	1/2"	2-13/16"
18-134	1-1/2"	1-1/4"	3/4"	1/2"	2-3/4"
18-138	2"	1-1/4"	1"	1/2"	2-3/4"

### Top Bearing Round Nose Bits

18-508	1/2"	23/64"	1/4"	1/4"	2-1/4"
18-510	5/8"	7/16"	5/16"	1/4"	2-11/32"
18-512	3/4"	7/16"	3/8"	1/4"	2-11/32"
18-522	3/4"	1-1/4"	3/8"	1/2"	2-27/32"

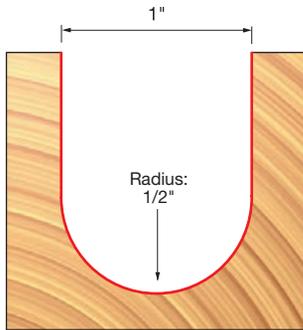


# Round Nose Bits

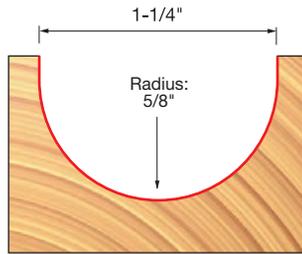


# EDGE TREATMENT & GROOVING BITS

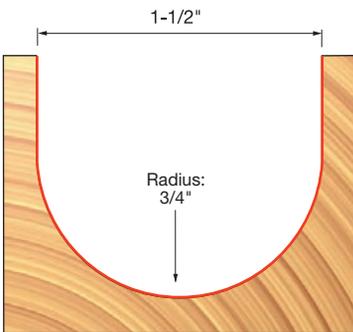
CONTINUED



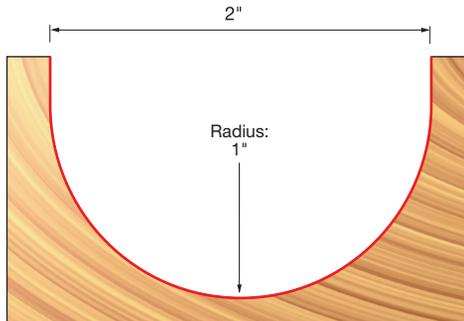
18-126



18-130

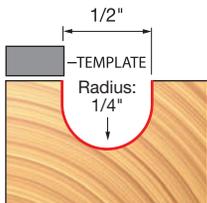


18-134

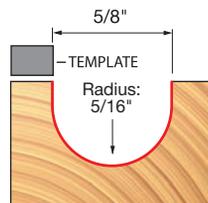


18-138

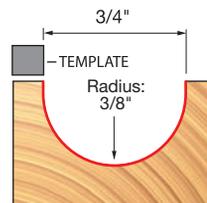
## Top Bearing Round Nose Bits



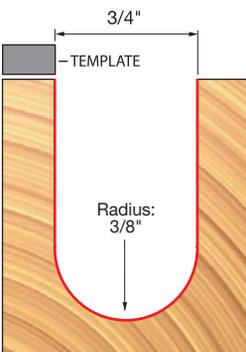
18-508 Top Bearing



18-510 Top Bearing



18-512 Top Bearing



18-522 Top Bearing

### USE IN



Table Router



Hand Router



CNC

### APPLICATION

Fluted millwork, signs and decorative veining. Add a personal touch to cabinet doors, drawer fronts, and fluted millwork, or use these bits to engrave wood signs.

### MATERIALS



Hardwood



Softwood

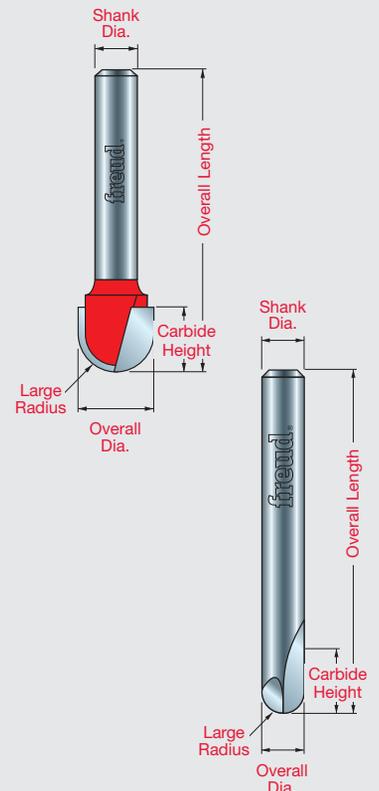


MDF



Plywood

ROUTER BITS

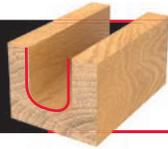


\* Solid Carbide

Red Item Numbers Indicate 1/2" Shank

All Profile Drawings 1:1 Scale

# EDGE TREATMENT & GROOVING BITS



## Dish Carving Bits

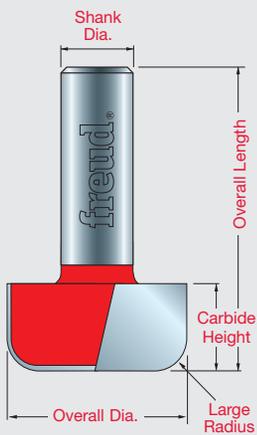
### USE IN



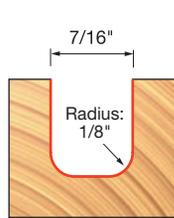
### APPLICATION

This bit is designed to remove large amounts of wood. Excellent for making trays, coasters, and raised-letter signs.

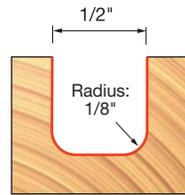
### MATERIALS



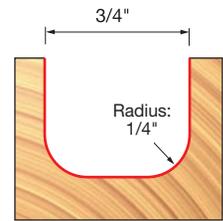
ITEM NUMBER	OVERALL DIA.	CARBIDE HEIGHT	RADIUS	SHANK DIA.	OVERALL LENGTH
19-102	7/16"	1/2"	1/8"	1/4"	2"
19-104	1/2"	1/2"	1/8"	1/4"	2-1/8"
19-126	3/4"	5/8"	1/4"	1/2"	2-5/8"
99-026	1-1/4"	19/32"	1/4"	1/2"	2-1/16"
Top Bearing Round Nose Bits					
19-506	3/4"	5/8"	1/4"	1/4"	2-5/16"
19-576	3/4"	5/8"	1/4"	1/2"	2-5/8"
19-578	1-1/8"	5/8"	1/4"	1/2"	2-5/8"



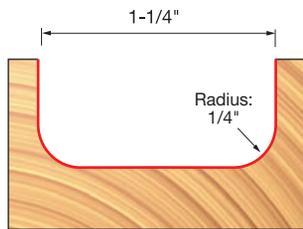
19-102



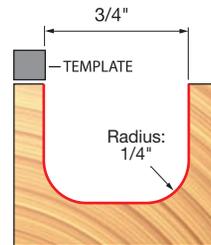
19-104



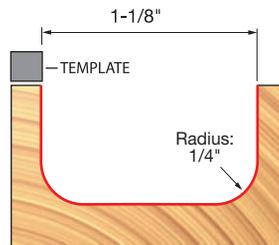
19-126



99-026



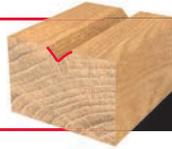
19-506 Top Bearing  
19-576 Top Bearing



19-578 Top Bearing

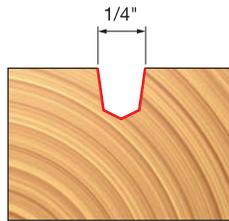
ROUTER BITS

## "V" Veining Bit

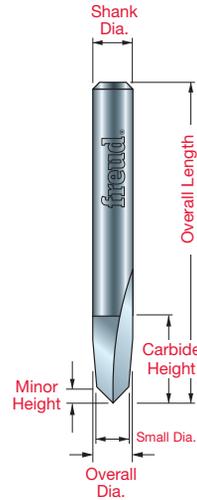


## EDGE TREATMENT & GROOVING BITS

ITEM NUMBER	OVERALL DIA.	SMALL DIA.	CARBIDE HEIGHT	MINOR HEIGHT	SHANK DIA.	OVERALL LENGTH
70-102*	1/4"	3/16"	7/32"	3/64"	1/4"	1-1/2"



70-102



### USE IN



Hand Router

CNC

### APPLICATION

Intricate designs in furniture and millwork. Produce an attractive double "V" to accent furniture, cabinet doors and millwork.

### MATERIALS



Hardwood

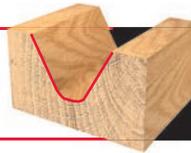
Softwood

MDF

Plywood

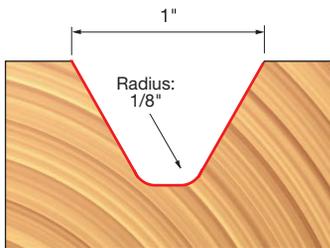
ROUTER BITS

## Lettering Bits

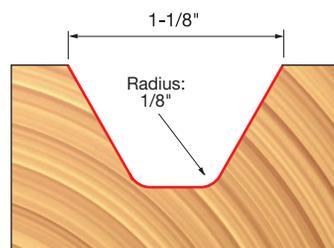


## EDGE TREATMENT & GROOVING BITS

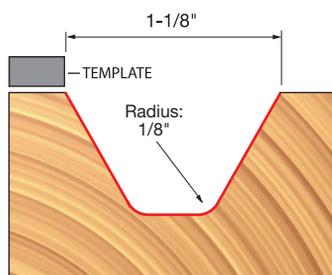
ITEM NUMBER	OVERALL DIA.	BEARING DIA.	CARBIDE HEIGHT	RADIUS	SHANK DIA.	OVERALL LENGTH
20-172	1"	-	3/4"	1/8"	1/4"	2"
20-174	1-1/8"	-	3/4"	1/8"	1/2"	2-1/4"
<b>Top Bearing Lettering Bits</b>						
20-574	1-1/8"	1-1/8"	3/4"	1/8"	1/2"	2-13/32"



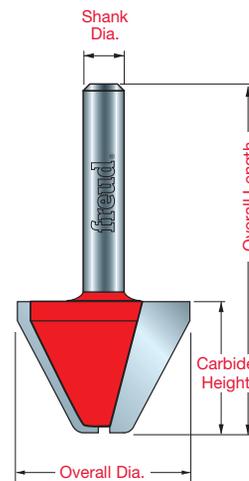
20-172



20-174



20-574 Top Bearing



### USE IN



Hand Router

CNC

### APPLICATION

Ideal for creating letters for signs, these bits produce a 60° angle for highly readable relief lettering. The flattened end removes excess material between letters quickly.

### MATERIALS



Hardwood

Softwood

MDF

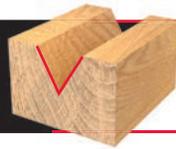
Plywood

\* Solid Carbide

Red Item Numbers Indicate 1/2" Shank

All Profile Drawings 1:1 Scale

# EDGE TREATMENT & GROOVING BITS



## "V" Grooving Bits

### USE IN



Table Router

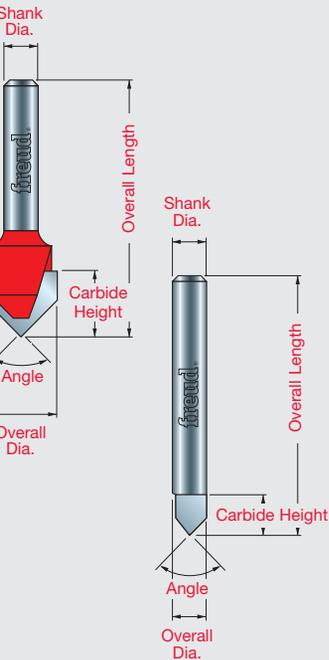
Hand Router

CNC

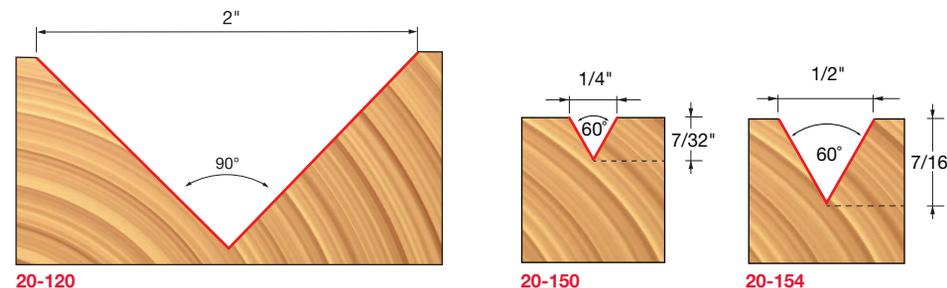
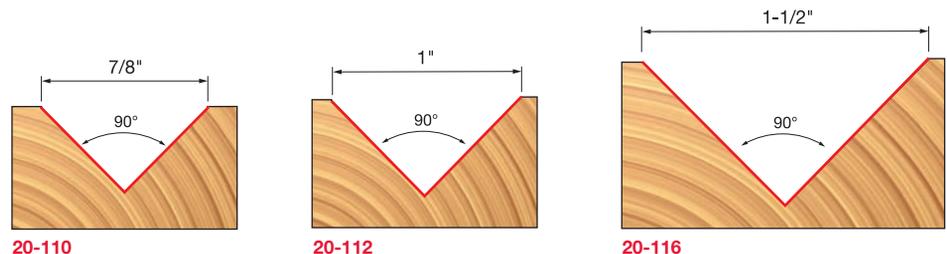
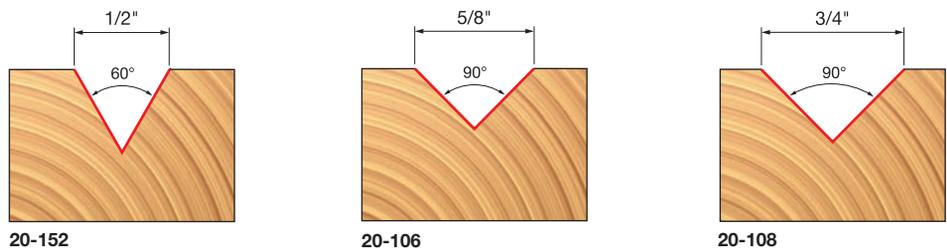
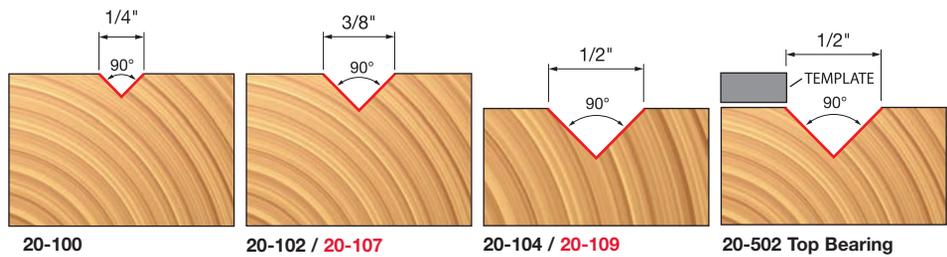
### APPLICATION

Ideal for making signs and adding decorative accents to furniture and plaques, Freud's "V" grooving bits are designed to cut deep or shallow "V" grooves

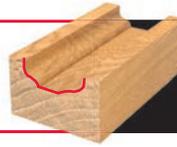
### MATERIALS



ITEM NUMBER	OVERALL DIA.	CARBIDE HEIGHT	ANGLES	SHANK DIA.	OVERALL LENGTH
20-100*	1/4"	1/4"	90°	1/4"	1-1/2"
20-102	3/8"	5/16"	90°	1/4"	1-3/4"
20-104	1/2"	7/16"	90°	1/4"	1-3/4"
20-106	5/8"	1/2"	90°	1/2"	2-1/4"
20-107	3/8"	1/2"	90°	1/2"	2-1/4"
20-108	3/4"	1/2"	90°	1/2"	2-1/4"
20-109	1/2"	1/2"	90°	1/2"	2-1/4"
20-110	7/8"	5/8"	90°	1/2"	2-1/4"
20-112	1"	5/8"	90°	1/2"	2-1/2"
20-116	1-1/2"	1"	90°	1/2"	3"
20-120	2"	1-1/4"	90°	1/2"	2-7/8"
20-150*	1/4"	7/32"	60°	1/4"	2"
20-152	1/2"	1/2"	60°	1/4"	2"
20-154*	1/2"	7/16"	60°	1/4"	2-1/4"
Top Bearing Bits					
20-502	1/2"	7/16"	90°	1/4"	2-1/4"

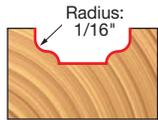


## Ogee Groove Bits

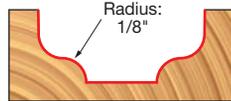


# EDGE TREATMENT & GROOVING BITS

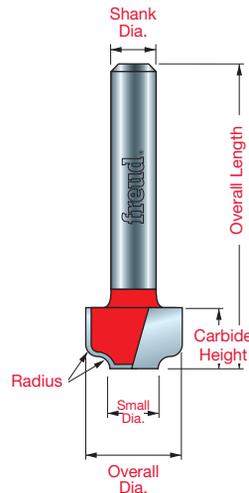
ITEM NUMBER	OVERALL DIA.	SMALL DIA.	CARBIDE HEIGHT	RADIUS	SHANK DIA.	OVERALL LENGTH
39-152	1/2"	1/4"	5/16"	1/16"	1/4"	1-9/16"
39-154	7/8"	3/8"	13/32"	1/8"	1/4"	1-11/16"



39-152



39-154



### USE IN



### APPLICATION

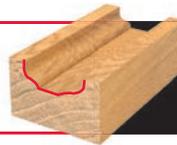
Create beautiful decorative grooves in molding and furniture, or use them with an edge guide to produce an ogee edge profile

### MATERIALS



ROUTER BITS

## Cove & Bead Groove Bits

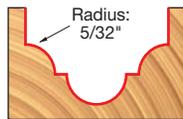


# EDGE TREATMENT & GROOVING BITS

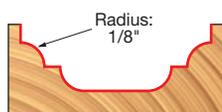
ITEM NUMBER	OVERALL DIA.	BEARING DIA.	CARBIDE HEIGHT	RADIUS	SHANK DIA.	OVERALL LENGTH
39-100	3/4"	9/16"	3/8"	3/32"	1/4"	1-5/8"
39-101	3/4"	5/16"	1/2"	5/32"	1/4"	1-3/4"
39-102	1"	3/4"	1/2"	1/8"	1/4"	1-3/4"
39-112	1-1/4"	25/32"	1/2"	5/32"	1/2"	2



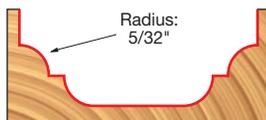
39-100



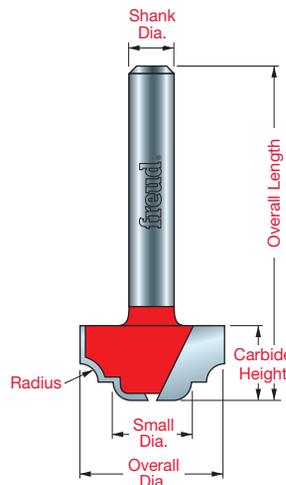
39-101



39-102



39-112



### USE IN



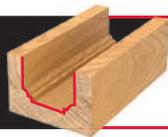
### APPLICATION

Produce beautiful decorative grooves in molding and furniture with these bits or use them with an edge guide to create decorative edge profiles.

### MATERIALS



# EDGE TREATMENT & GROOVING BITS



## Classical Beading Groove Bits

### USE IN



### APPLICATION

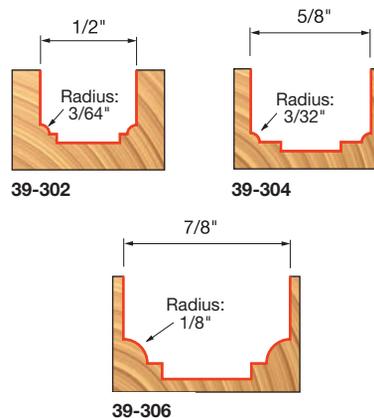
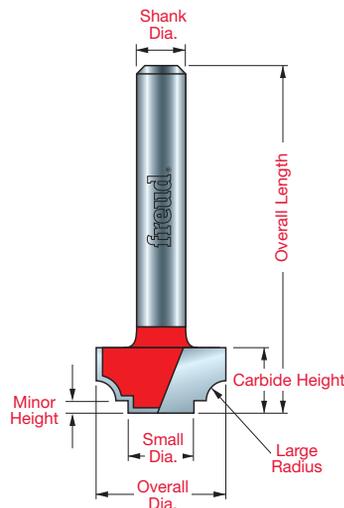
Elaborate design for furniture and moldings. The simple bead and flat bottom design created by these bits adds depth to any surface.

### MATERIALS

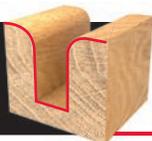


ROUTER BITS

ITEM NUMBER	OVERALL DIA.	SMALL DIA.	CARBIDE HEIGHT	MINOR HEIGHT	RADIUS	SHANK DIA.	OVERALL LENGTH
39-302	1/2"	21/64"	3/8"	3/64"	3/64"	1/4"	1-5/8"
39-304	5/8"	5/16"	3/8"	3/64"	3/32"	1/4"	1-5/8"
39-306	7/8"	15/32"	29/64"	5/64"	1/8"	1/4"	1-23/32



# EDGE TREATMENT & GROOVING BITS



## Ovolo Bits

### USE IN



### APPLICATION

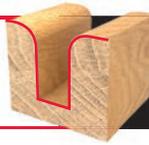
Template work & cutting openings in paneling, siding, etc. The drill through point allows self-starting, and the pilot acts as a guide for template work.

### MATERIALS



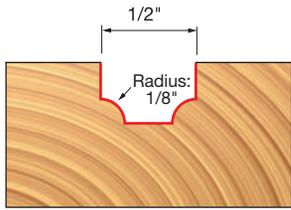
ITEM NUMBER	OVERALL DIA.	BEARING DIA.	CARBIDE HEIGHT	RADIUS	SHANK DIA.	OVERALL LENGTH
39-202	1/2"	1/4"	5/16"	1/8"	1/4"	1-3/4"
39-204	7/8"	1/2"	1/2"	3/16"	1/4"	1-3/4"
39-205	7/8"	1/4"	5/8"	1/4"	1/4"	2"
39-206	1"	1/2"	1/2"	1/4"	1/4"	1-3/4"
39-208	1-1/4"	1/2"	9/16"	3/8"	1/4"	1-13/16"
39-210	1-1/2"	1/2"	3/4"	1/2"	1/4"	2"
39-226	1"	1/2"	1/2"	1/4"	1/2"	2"
39-228	1-1/4"	1/2"	9/16"	3/8"	1/2"	2-1/16"
39-230	1-1/2"	1/2"	3/4"	1/2"	1/2"	2-1/4"
39-232	1-3/4"	1/2"	7/8"	5/8"	1/2"	2-3/8"
39-234	2"	1/2"	1"	3/4"	1/2"	2-1/2"
39-236	2-1/4"	1/2"	1 1/8"	7/8"	1/2"	2-5/8"
39-252	1-1/8"	1/2"	1-7/32"	1/4"	1/2"	2-23/32"
39-238	2-1/2"	1/2"	1-5/16"	1"	1/2"	2-13/16"

# Ovolo Bits

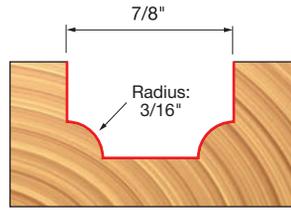


# EDGE TREATMENT & GROOVING BITS

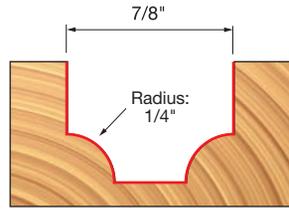
CONTINUED



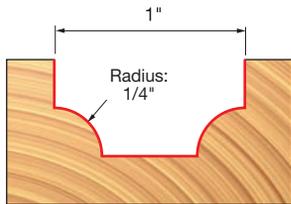
39-202



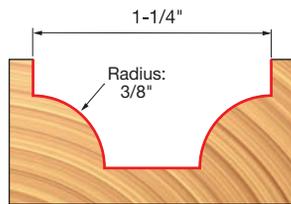
39-204



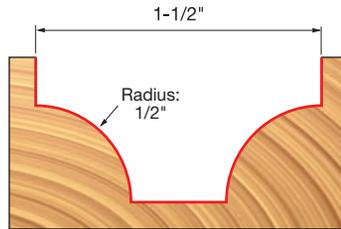
39-205



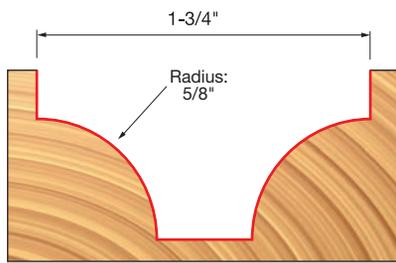
39-206 / 39-226



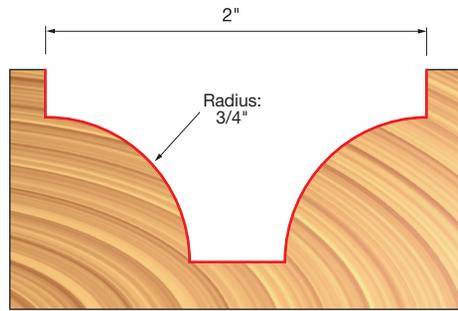
39-208 / 39-228



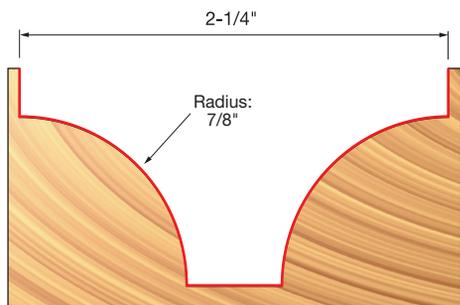
39-210 / 39-230



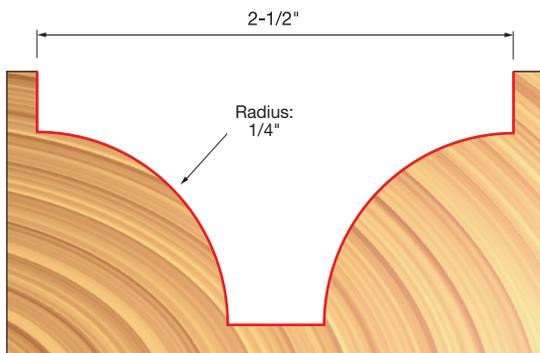
39-232



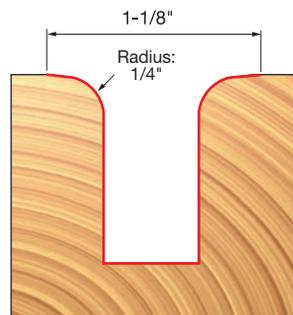
39-234



39-236



39-238



39-252

## USE IN



Table Router

Hand Router

CNC

## APPLICATION

Create decorative grooves in molding and furniture, including the attractive groove in French Provincial style doors and cabinets

## MATERIALS

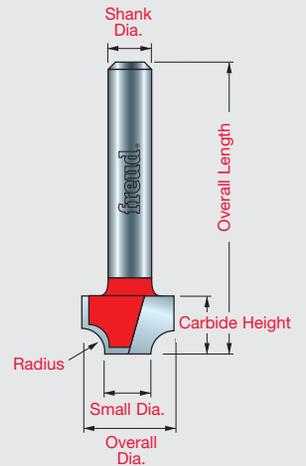


Hardwood

Softwood

MDF

Plywood

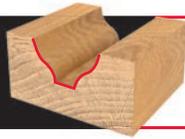


\* Solid Carbide

Red Item Numbers Indicate 1/2" Shank

All Profile Drawings 1:1 Scale

# EDGE TREATMENT & GROOVING BITS



## Standard Ogee Groove Bits

### USE IN



Table Router

Hand Router

CNC

### APPLICATION

Traditional accents for furniture and moldings. Accents any project with a slight, decorative groove and it can produce a decorative edge when used with an edge guide.

### MATERIALS



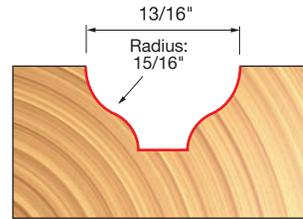
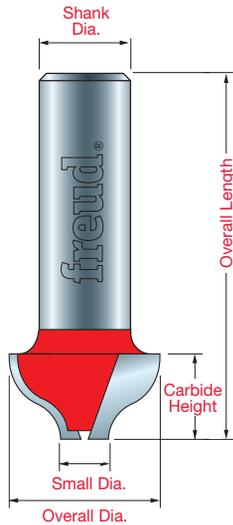
Hardwood

Softwood

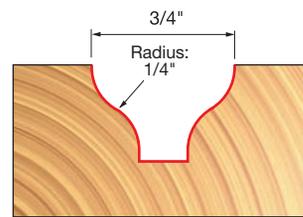
MDF

Plywood

ITEM NUMBER	OVERALL DIA.	SMALL DIA.	CARBIDE HEIGHT	MINOR HEIGHT	LARGE RADIUS	SHANK DIA.
99-004	13/16"	1/4"	29/64"	15/64"	1/2"	1-15/16"
39-240	3/4"	1/4"	1/2"	1/4"	1/4"	1-3/4"

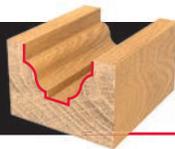


99-004



39-240

# EDGE TREATMENT & GROOVING BITS



## Top Bearing Fillet Ogee Groove Bits

### USE IN



Table Router

Hand Router

CNC

### APPLICATION

Template work, decorative edges and elaborate grooves. Produce symmetrical ogee profile ending in a fillet. The flat bottom of the groove can create the illusion of panel construction as well as decorative edge.

### MATERIALS



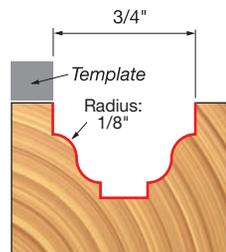
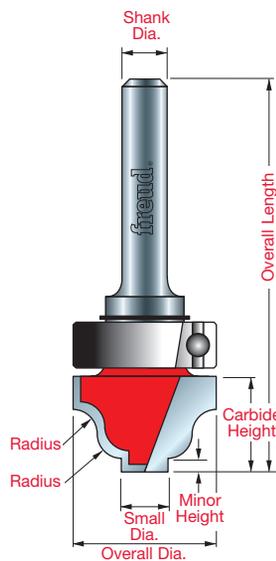
Hardwood

Softwood

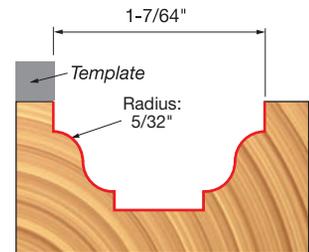
MDF

Plywood

ITEM NUMBER	OVERALL DIA.	SMALL DIA.	CARBIDE HEIGHT	MINOR HEIGHT	RADIUS	SHANK DIA.	OVERALL LENGTH
39-522	3/4"	1/4"	1/2"	5/32"	1/8"	1/4"	2-3/16"
39-524	1-7/64"	15/32"	9/16"	5/32"	5/32"	3/8"	2-1/4"



39-522

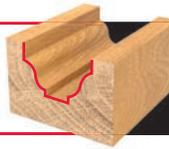


39-524



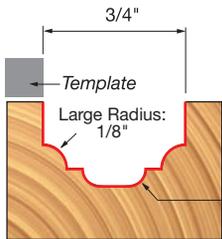
Example of Cabinet Door

## Top Bearing Classical Cove & Bead Groove Bits

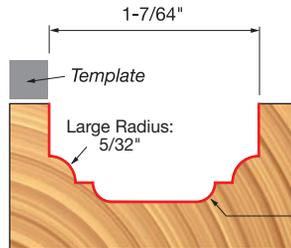


## EDGE TREATMENT & GROOVING BITS

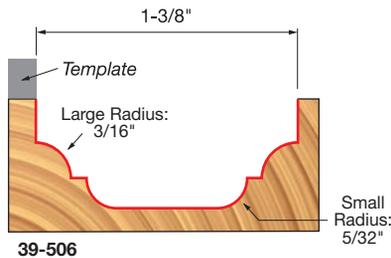
ITEM NUMBER	OVERALL DIA.	SMALL DIA.	CARBIDE HEIGHT	LARGE RADIUS	SMALL RADIUS	SHANK DIA.	OVERALL LENGTH
39-502	3/4"	1/4"	7/16"	1/8"	3/32"	1/4"	2-1/8"
39-504	1-7/64"	21/32"	1/2"	5/32"	1/8"	3/8"	2-1/4"
39-506	1-3/8"	27/32"	9/16"	3/16"	5/32"	3/8"	2-7/16"



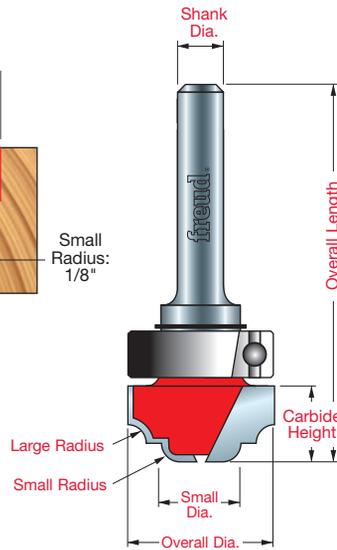
39-502



39-504



39-506



### USE IN



Hand Router

CNC

### APPLICATION

Template work, decorative edges and elaborate grooves. Produce a cove and bead groove with a flat bottom to add depth to furniture or millwork. They can also create a decorative edge profile.

### MATERIALS



Hardwood

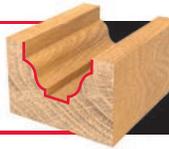
Softwood

MDF

Plywood

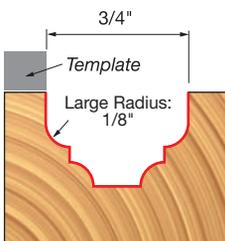
ROUTER BITS

## Top Bearing Cove & Bead Groove Bit

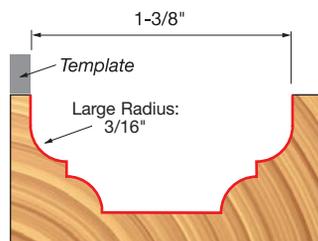


## EDGE TREATMENT & GROOVING BITS

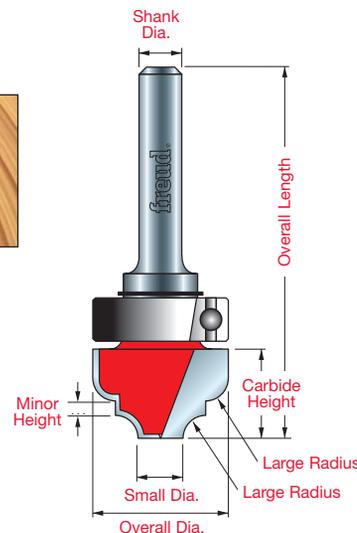
ITEM NUMBER	OVERALL DIA.	SMALL DIA.	CARBIDE HEIGHT	MINOR HEIGHT	LARGE RADIUS	SHANK DIA.	OVERALL LENGTH
39-532	3/4"	1/4"	31/64"	5/64"	1/8"	1/4"	2-3/16"
39-536	1-3/8"	5/8"	39/64"	5/64"	3/16"	3/8"	2-7/16"



39-532



39-536



### USE IN



Hand Router

CNC

### APPLICATION

Template work, decorative edges and elaborate grooves. Create a traditional cove and bead profile that includes a flat bottom, creating the illusion of panel construction. These bits can also be used to create a decorative edge profile.

### MATERIALS



Hardwood

Softwood

MDF

Plywood

\* Solid Carbide

Red Item Numbers Indicate 1/2" Shank

All Profile Drawings 1:1 Scale

# EDGE TREATMENT & GROOVING BITS



## Radius "V" Grooving Bits

### USE IN



Table Router

Hand Router

CNC

### APPLICATION

Sign making, Lettering, 2D & 3D Carving, Decorative Grooves. Designed to cut deep or shallow V-Groove shapes with rounded top edges.

### MATERIALS



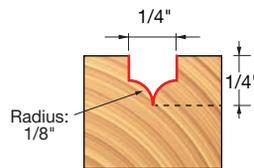
Hardwood

Softwood

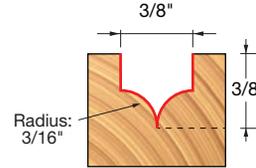
MDF

Plywood

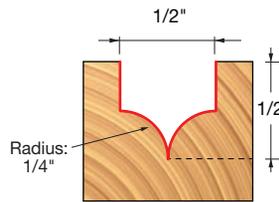
ITEM NUMBER	OVERALL DIA.	CARBIDE HEIGHT	RADIUS	SHANK DIA.	OVERALL LENGTH
20-305*	1/4"	1/4"	1/8"	1/4"	2"
20-310*	3/8"	3/8"	3/16"	1/4"	2"
20-315*	1/2"	1/2"	1/4"	1/4"	2"
20-320*	3/4"	5/8"	3/8"	1/4"	2"



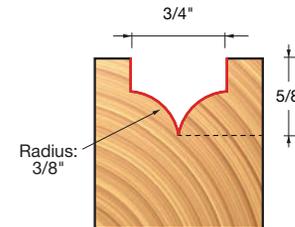
20-305



20-310

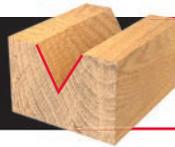


20-315



20-320

# EDGE TREATMENT & GROOVING BITS



## Engraving "V" Grooving Bits

### USE IN



Table Router

Hand Router

CNC

### APPLICATION

CNC Carving, Engraving, Signmaking & Veining

### MATERIALS



Hardwood

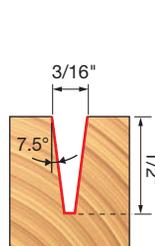
Softwood

MDF

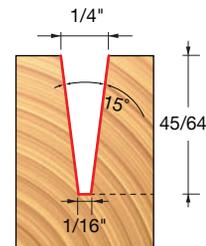
Plastic

Aluminum

ITEM NUMBER	OVERALL DIA.	CARBIDE HEIGHT	ANGLE	SHANK DIA.	OVERALL LENGTH
70-103*	3/16"	1/2"	7.5°	1/4"	1-11/16"
70-112*	1/4"	1/2"	15°	1/4"	2-1/2"

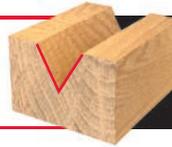


70-103



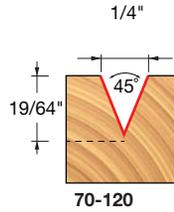
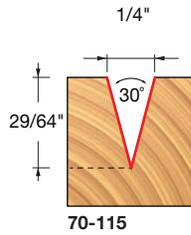
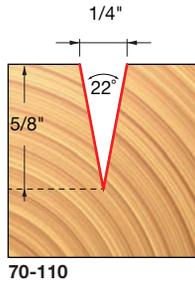
70-112

## Detail Carving Bit



## EDGE TREATMENT & GROOVING BITS

ITEM NUMBER	OVERALL DIA.	CARBIDE HEIGHT	ANGLE	SHANK DIA.	OVERALL LENGTH
70-110*	1/4"	5/8"	22°	1/4"	2-1/2"
70-115*	1/4"	29/64"	30°	1/4"	2"
70-120*	1/4"	19/64"	45°	1/4"	2"



### USE IN



### APPLICATION

Engraving router bits for signmaking, fine carving & lettering details. Comes in a variety of angles.

### MATERIALS



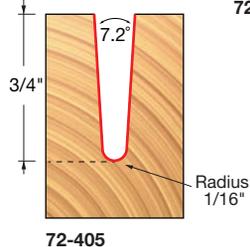
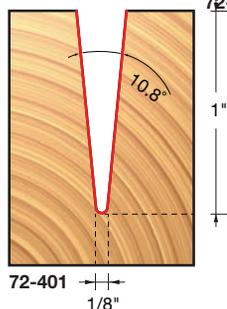
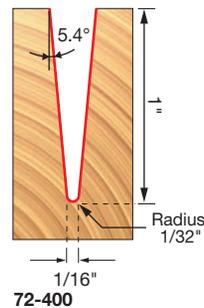
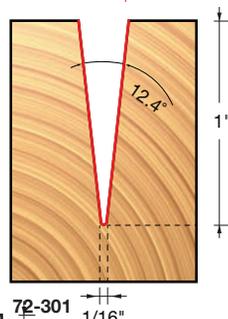
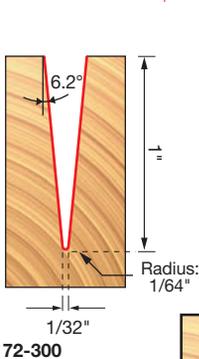
ROUTER BITS

## Tapered Ball Tip Bits



## EDGE TREATMENT & GROOVING BITS

ITEM NUMBER	OVERALL DIA.	CARBIDE HEIGHT	ANGLE	SHANK DIA.	OVERALL LENGTH
72-300*	1/32"	1"	N/A	1/4"	3"
72-301*	1/32"	1"	6.2°	1/4"	2-1/2"
72-400*	1/16"	1"	5.4°	1/4"	3"
72-401*	1/16"	1"	5.4°	1/4"	2-1/2"
72-405*	1/8"	1"	7°	1/4"	2-1/2"



### USE IN



### APPLICATION

CNC Carving, Engraving, Signmaking & Veining

### MATERIALS

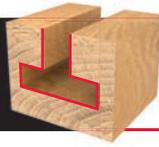


\* Solid Carbide

Red Item Numbers Indicate 1/2" Shank

All Profile Drawings 1:1 Scale

# EDGE TREATMENT & GROOVING BITS



## T-Slotting Cutter Bits

### USE IN



Table Router

Hand Router

CNC

### APPLICATION

Build your own sturdy, attractive, slotted wall displays hanging by a hook

### MATERIALS



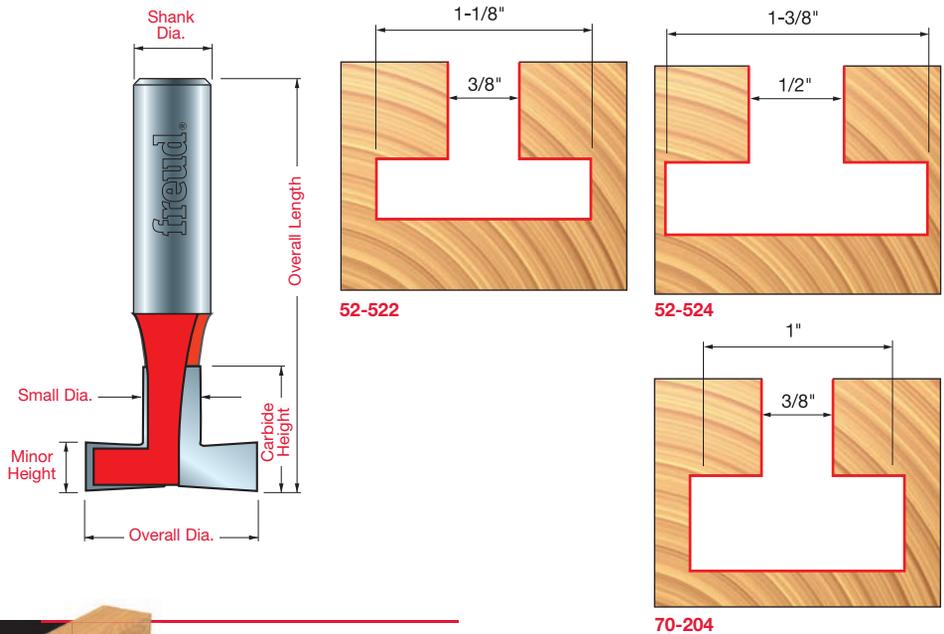
Hardwood

Softwood

MDF

Plywood

ITEM NUMBER	OVERALL DIA.	SMALL DIA.	CARBIDE HEIGHT	MINOR HEIGHT	SHANK DIA.	OVERALL LENGTH
52-522	1-1/8"	3/8"	13/16"	5/16"	1/2"	2-1/2"
52-524	1-3/8"	1/2"	7/8"	3/8"	1/2"	2-1/2"
70-204	1"	3/8"	1"	1/2"	1/4"	2-3/8"



# EDGE TREATMENT & GROOVING BITS



## Key Hole Bit

### USE IN



Table Router

Hand Router

CNC

### APPLICATION

Key holes for hanging plaques and shelves. The large diameter end bores holes to allow nail or screw heads to enter the slot. The smaller diameter allows room for the shank of the nail or screw.

### MATERIALS



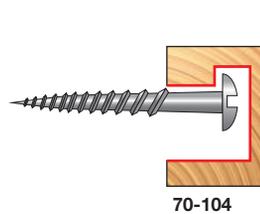
Hardwood

Softwood

MDF

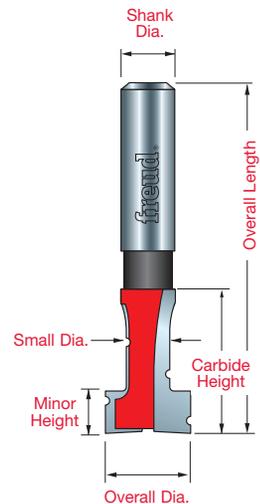
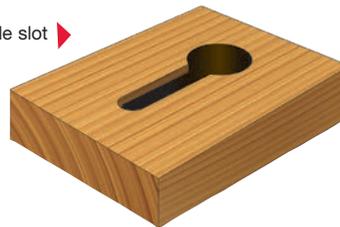
Plywood

ITEM NUMBER	OVERALL DIA.	SMALL DIA.	CARBIDE HEIGHT	MINOR HEIGHT	SHANK DIA.	OVERALL LENGTH
70-104	25/64"	3/16"	7/16"	1/4"	1/4"	1-5/8"

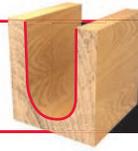


70-104

Example of Key Hole slot ▶

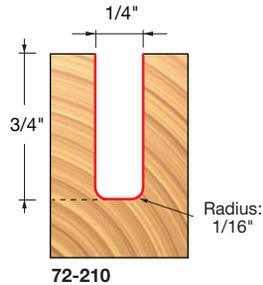


## Radius Tip Up Cut Spiral Bit



## EDGE TREATMENT & GROOVING BITS

ITEM NUMBER	OVERALL DIA.	CUTTING LENGTH	SHANK DIA.	OVERALL LENGTH
72-210*	1/8"	1"	1/4"	2-1/2"



### USE IN



Table Router

Hand Router

CNC

### APPLICATION

CNC carving, signmaking, veining, fluting & decorative grooves. Create smooth, flat-bottom grooves with curved edges.

### MATERIALS



Hardwood

Softwood

MDF

Plywood

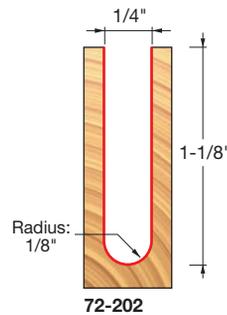
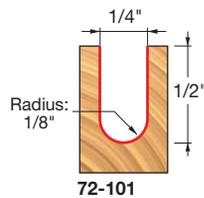
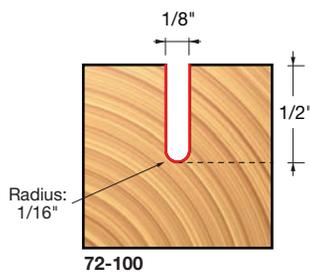
ROUTER BITS

## Up Cut Spiral Ball Nose Bits



## EDGE TREATMENT & GROOVING BITS

ITEM NUMBER	OVERALL DIA.	CARBIDE HEIGHT	RADIUS	SHANK DIA.	OVERALL LENGTH
72-100*	1/8"	1/2"	NA	1/4"	2"
72-101*	1/4"	1/2"	1/8"	1/4"	2-1/2"
72-202*	1/4"	1-1/8"	1/8"	1/4"	3"



### USE IN



Table Router

Hand Router

CNC

### APPLICATION

CNC carving, engraving, signmaking & grooving or edge work

### MATERIALS



MDF

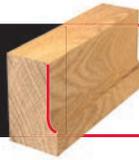
Hardwood

Softwood

Plastic

Aluminum

# EDGE TREATMENT & GROOVING BITS



## Cove Bits

### USE IN



Table Router Hand Router

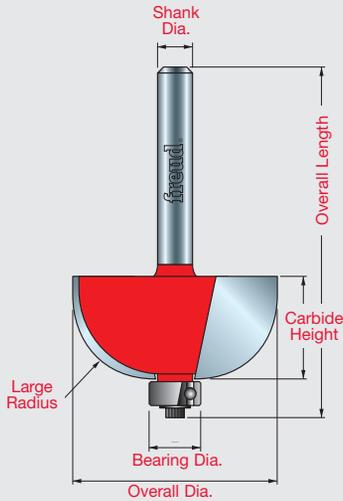
### APPLICATION

Smooth, decorative edging and inverted radii. Create smooth, classic cove profiles with Freud cove bits, which have a shear angle that slices wood similar to the way a craftsman uses a hand plane.

### MATERIALS



Hardwood Softwood MDF  
Plywood Laminate



ITEM NUMBER	OVERALL DIA.	BEARING DIA.	CARBIDE HEIGHT	LARGE RADIUS	SHANK DIA.	OVERALL LENGTH
30-094	1/2"	3/8"	1/2"	1/16"	1/4"	2-3/16"
30-098	5/8"	3/8"	1/2"	1/8"	1/4"	2-3/16"
30-100	3/4"	3/8"	1/2"	3/16"	1/4"	2-3/16"
30-102	7/8"	3/8"	1/2"	1/4"	1/4"	2-3/16"
30-103	1"	3/8"	5/16"	5/16"	1/4"	2-3/16"
30-104	1-1/4"	1/2"	1/2"	3/8"	1/4"	2-3/16"
30-106	1-1/2"	1/2"	1/2"	1/2"	1/4"	2-3/16"
30-107	1-3/4"	1/2"	3/4"	5/8"	1/2"	2-1/2"
30-108	2"	1/2"	7/8"	3/4"	1/2"	2-5/8"
30-109	7/8"	1/2"	1/2"	3/16"	1/2"	2-1/2"
30-110	1"	1/2"	1/2"	1/4"	1/2"	2-1/2"
30-111	1"	3/8"	5/16"	5/16"	1/2"	2-1/2"
30-112	1-1/4"	1/2"	1/2"	3/8"	1/2"	2-1/2"
30-114	1-1/2"	1/2"	5/8"	1/2"	1/2"	2-1/2"



30-094



30-098



30-100 / 30-109



30-102 / 30-110



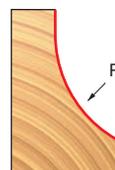
30-103 / 30-111



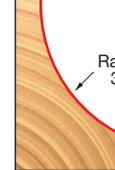
30-104 / 30-112



30-106 / 30-114

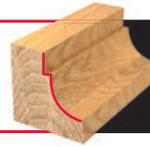


30-107



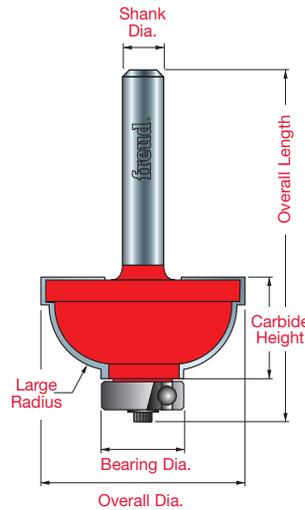
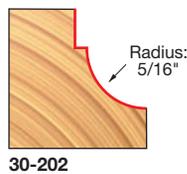
30-108

## Cove & Fillet Bits



## EDGE TREATMENT & GROOVING BITS

ITEM NUMBER	OVERALL DIA.	BEARING DIA.	CARBIDE HEIGHT	LARGE RADIUS	SHANK DIA.	OVERALL LENGTH
30-202	1-1/4"	1/2"	19/32"	5/16"	1/4"	2-3/16"



### USE IN



### APPLICATION

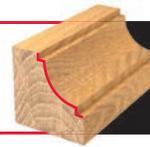
Produces a smooth cove with a small fillet at the top, a profile found in many traditional pieces of furniture and millwork

### MATERIALS



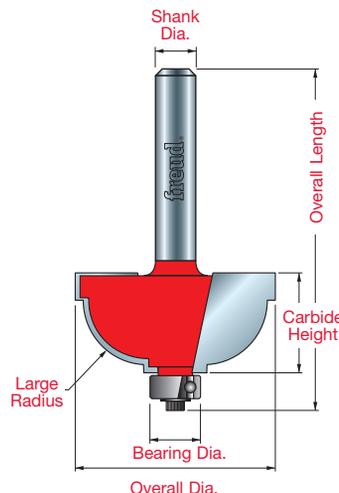
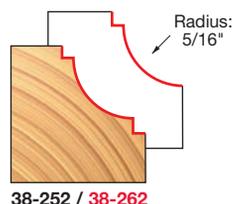
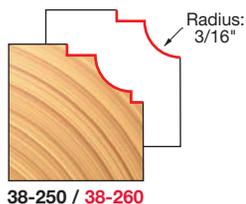
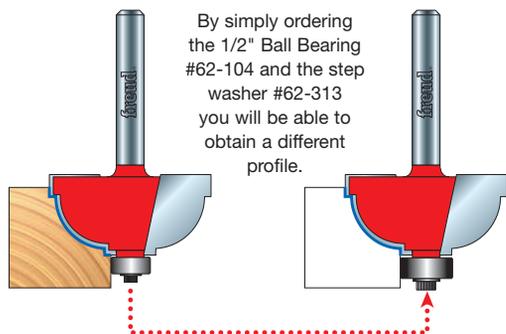
ROUTER BITS

## Classical Cove Bits



## EDGE TREATMENT & GROOVING BITS

ITEM NUMBER	OVERALL DIA.	BEARING DIA.	CARBIDE HEIGHT	LARGE RADIUS	SHANK DIA.	OVERALL LENGTH
38-250	1-1/8"	3/8"	1/2"	3/16"	1/4"	2-3/16"
38-252	1-1/4"	3/8"	19/32"	5/16"	1/4"	2-3/16"
38-260	1-1/8"	3/8"	1/2"	3/16"	1/2"	2-1/2"
38-262	1-1/4"	3/8"	1-3/8"	5/16"	1/2"	2-1/2"



### USE IN



### APPLICATION

Enhance traditional furniture and millwork by adding an attractive cove profile with a small fillet at the top and bottom

### MATERIALS

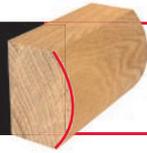


\* Solid Carbide

Red Item Numbers Indicate 1/2" Shank

All Profile Drawings 1:1 Scale

# EDGE TREATMENT & GROOVING BITS



## Convex Edge Bit

### USE IN



Table Router

Hand Router

CNC

### APPLICATION

Shallow bull nose profile for edging. creates a soft, gently rounded edge on any project or use this bit to plunge rout internal cut-outs for use as hand-holds.

### MATERIALS



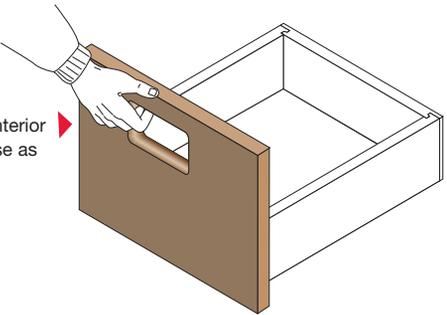
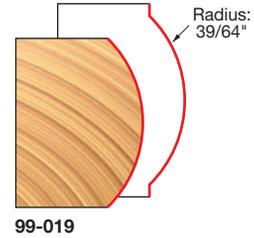
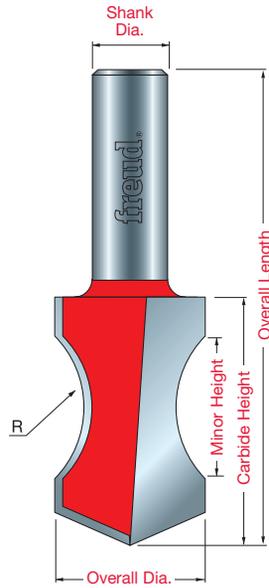
Hardwood

Softwood

MDF

Plywood

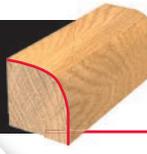
ITEM NUMBER	OVERALL DIA.	CARBIDE HEIGHT	MINOR HEIGHT	LARGE RADIUS	SHANK DIA.	OVERALL LENGTH
99-019	1"	1-5/8"	7/8"	39/64"	1/2"	3-1/16"



Example of interior cut-out for use as a hand-hold.

ROUTER BITS

# EDGE TREATMENT & GROOVING BITS



## Rounding Over Bits

### USE IN



Table Router

Hand Router

CNC

### APPLICATION

Soften furniture edges and create decorative beads. For beading work, equip the bits with a 1/8" smaller bearing and step washer.

### MATERIALS



Hardwood

Softwood

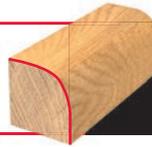
MDF

Plywood



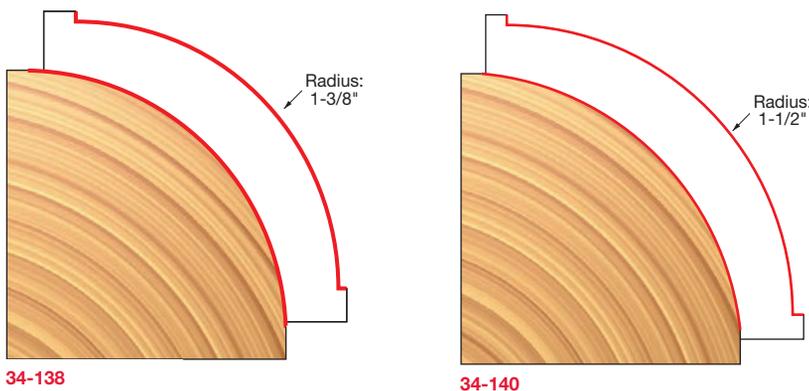
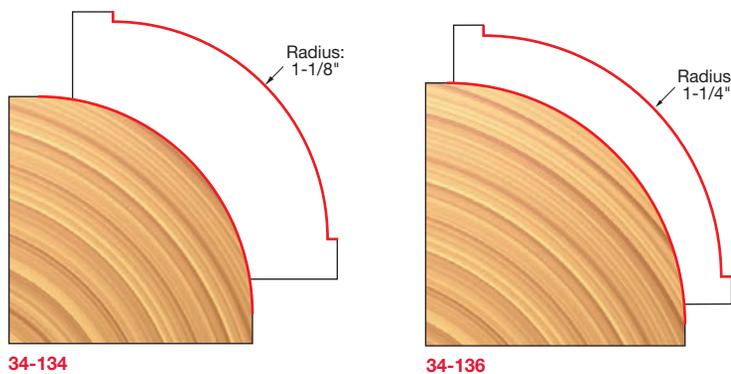
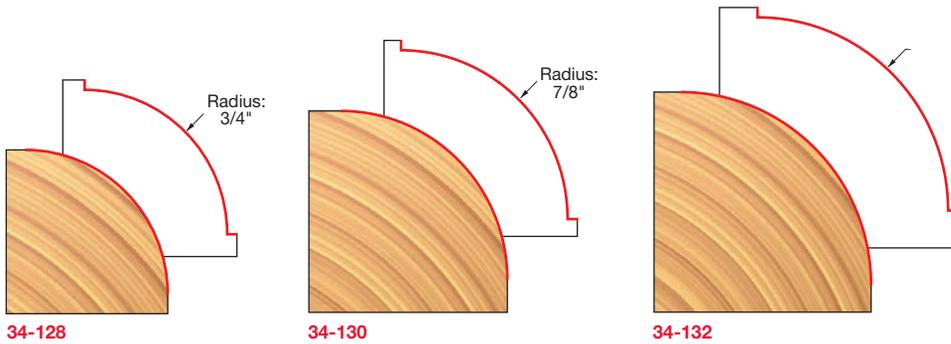
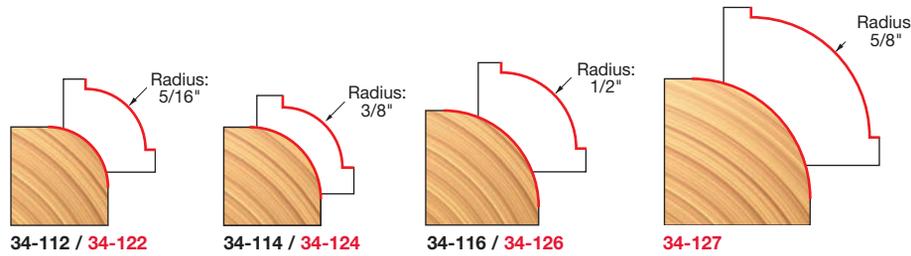
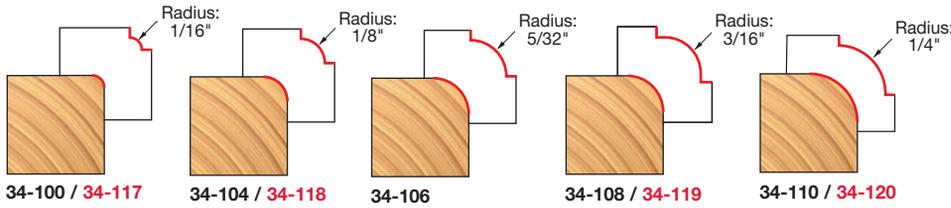
ITEM NUMBER	OVERALL DIA.	BEARING DIA.	CARBIDE HEIGHT	LARGE RADIUS	SHANK DIA.	OVERALL LENGTH
34-100	5/8"	1/2"	1/2"	1/16"	1/4"	2-3/16"
34-104	3/4"	1/2"	1/2"	1/8"	1/4"	2-3/16"
34-106	13/16"	1/2"	1/2"	5/32"	1/4"	2-3/16"
34-108	7/8"	1/2"	1/2"	3/16"	1/4"	2-3/16"
34-110	1-1/8"	5/8"	1/2"	1/4"	1/4"	2-3/16"
34-112	1-1/4"	5/8"	1/2"	5/16"	1/4"	2-3/16"
34-114	1-3/8"	5/8"	5/8"	3/8"	1/4"	2-3/16"
34-116	1-1/2"	1/2"	3/4"	1/2"	1/4"	2-1/2"
34-117	5/8"	1/2"	1/2"	1/16"	1/2"	2-1/2"
34-118	3/4"	1/2"	1/2"	1/8"	1/2"	2-1/2"
34-119	7/8"	1/2"	1/2"	3/16"	1/2"	2-1/2"
34-120	1-1/4"	3/4"	1/2"	1/4"	1/2"	2-1/2"
34-122	1-1/8"	3/4"	1/2"	5/16"	1/2"	2-1/2"
34-124	1-1/2"	3/4"	5/8"	3/8"	1/2"	2-5/8"
34-126	1-5/8"	5/8"	3/4"	1/2"	1/2"	2-3/4"
34-127	1-7/8"	5/8"	7/8"	5/8"	1/2"	2-7/8"
34-128	2"	1/2"	1"	3/4"	1/2"	2-7/8"
34-130	2-1/4"	1/2"	1-1/4"	7/8"	1/2"	3-1/8"
34-132	2-1/2"	1/2"	1-1/4"	1"	1/2"	3-1/8"
34-134	2-3/4"	1/2"	1-3/8"	1-1/8"	1/2"	3-1/4"
34-136	3"	1/2"	1-1/2"	1-1/4"	1/2"	3-3/8"
34-138	3-1/4"	1/2"	1-9/16"	1-3/8"	1/2"	3-3/8"
34-140	3-1/2"	1/2"	1-3/4"	1-1/2"	1/2"	3-5/8"

# Rounding Over Bits



# EDGE TREATMENT & GROOVING BITS

CONTINUED



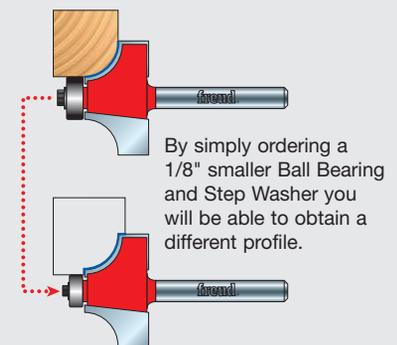
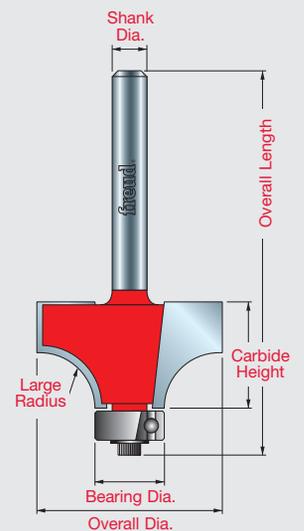
## USE IN



## APPLICATION

Soften furniture edges and create decorative beads. For beading work, equip the bits with a 1/8" smaller bearing and step washer.

## MATERIALS



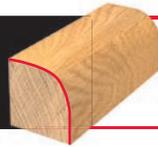
ROUTER BITS

\* Solid Carbide

Red Item Numbers Indicate 1/2" Shank

All Profile Drawings 1:1 Scale

# EDGE TREATMENT & GROOVING BITS



## Rounding Over Bits with Steel Pilots

### USE IN



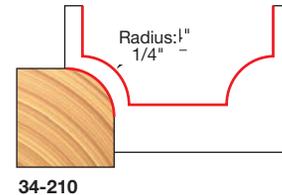
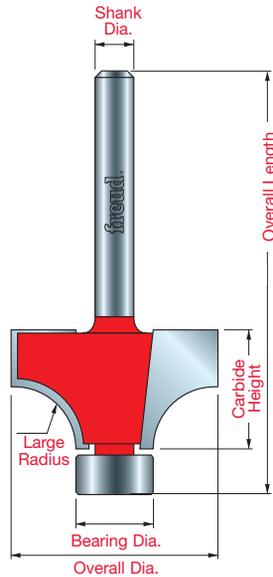
### APPLICATION

Soften the edges of furniture or remove the solid steel pilots to produce traditional beaded grooves

### MATERIALS



ITEM NUMBER	OVERALL DIA.	BEARING DIA.	CARBIDE HEIGHT	LARGE RADIUS	SHANK DIA.	OVERALL LENGTH
34-210	1"	1/2"	33/64"	1/4"	1/4"	2"



ROUTER BITS

# EDGE TREATMENT & GROOVING BITS



## Drop-Leaf Table Bit Set

### USE IN



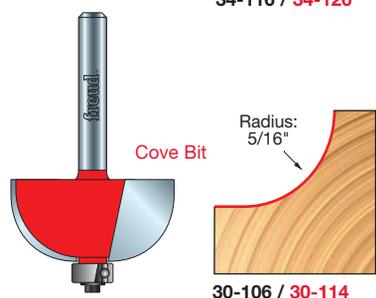
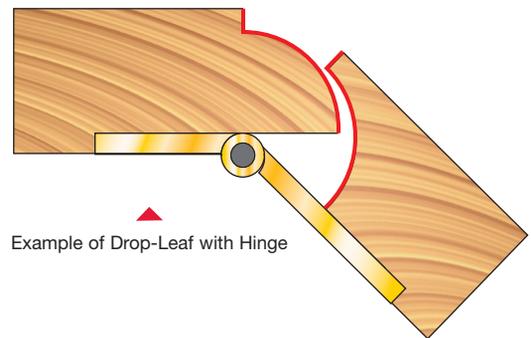
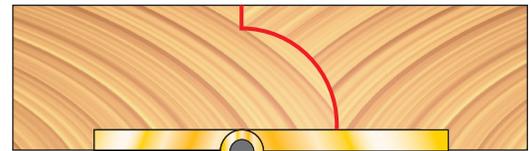
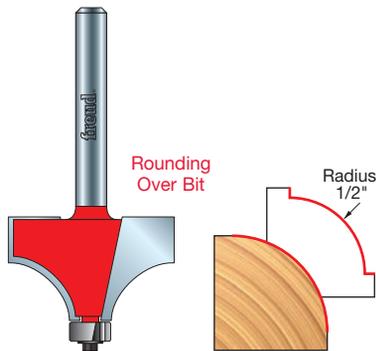
### APPLICATION

Mating edge profiles for drop-leaf tables. Includes one rounding over bit and one cove bit.

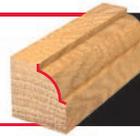
### MATERIALS



SET ITEM NUMBER	TABLE TOP THICKNESS	COVE BIT ITEM #	ROUNDING OVER BIT ITEM #	SHANK DIA.
33-106	3/4"	30-106	34-116	1/4"
33-116	3/4"	30-114	34-126	1/2"



# Beading Bits



# EDGE TREATMENT & GROOVING BITS



USE IN



Table Router Hand Router

## APPLICATION

Add a decorative bead profile to furniture and millwork. For rounding over work, add a 1/8" larger bearing and step washer.

## MATERIALS



Hardwood

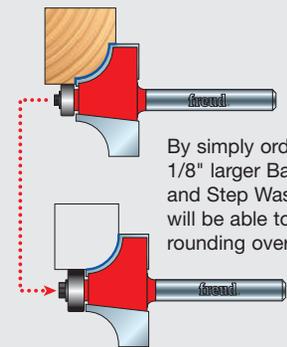
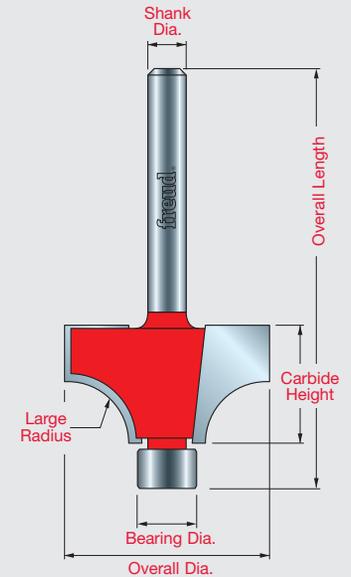
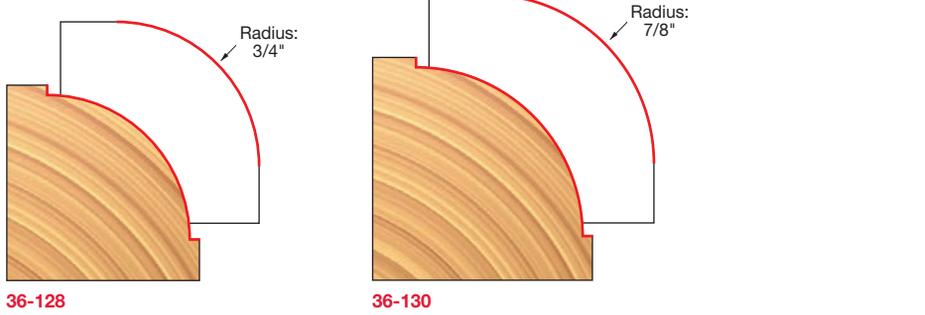
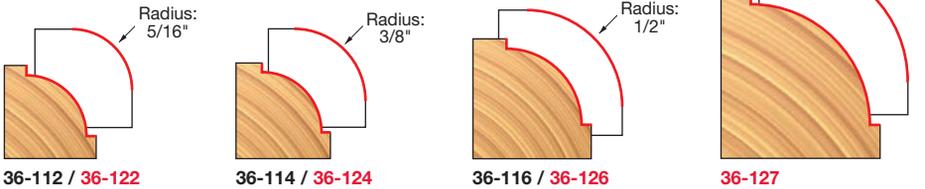
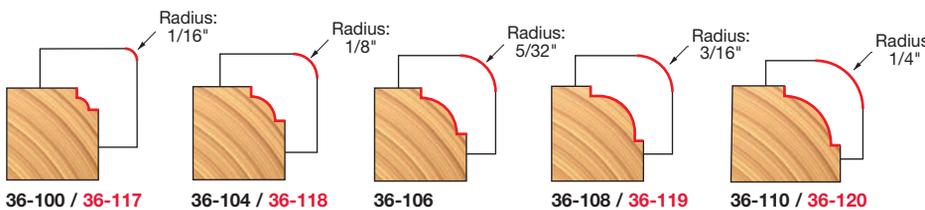
Softwood

MDF

Plywood

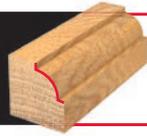
ROUTER BITS

ITEM NUMBER	OVERALL DIA.	BEARING DIA.	CARBIDE HEIGHT	LARGE RADIUS	SHANK DIA.	OVERALL LENGTH
36-100	5/8"	3/8"	1/2"	1/16"	1/4"	2-3/16"
36-104	3/4"	3/8"	1/2"	1/8"	1/4"	2-3/16"
36-106	13/16"	3/8"	1/2"	5/32"	1/4"	2-3/16"
36-108	7/8"	3/8"	1/2"	3/16"	1/4"	2-3/16"
36-110	1-1/8"	1/2"	1/2"	1/4"	1/4"	2-3/16"
36-112	1-1/4"	1/2"	1/2"	5/16"	1/4"	2-3/16"
36-114	1-3/8"	1/2"	5/8"	3/8"	1/4"	2-3/16"
36-116	1-1/2"	3/8"	3/4"	1/2"	1/4"	2-1/2"
36-117	5/8"	3/8"	1/2"	1/16"	1/2"	2-1/2"
36-118	3/4"	3/8"	1/2"	1/8"	1/2"	2-1/2"
36-119	7/8"	3/8"	1/2"	3/16"	1/2"	2-1/2"
36-120	1-1/4"	5/8"	1/2"	1/4"	1/2"	2-1/2"
36-122	1-1/8"	5/8"	1/2"	5/16"	1/2"	2-1/2"
36-124	1-1/2"	5/8"	5/8"	3/8"	1/2"	2-5/8"
36-126	1-5/8"	1/2"	3/4"	1/2"	1/2"	2-3/4"
36-127	1-7/8"	1/2"	7/8"	5/8"	1/2"	2-7/8"
36-128	2"	3/8"	1"	3/4"	1/2"	2-7/8"
36-130	2-1/4"	3/8"	1-1/4"	7/8"	1/2"	3-1/8"
36-132	2-1/2"	3/8"	1-1/4"	1"	1/2"	3-1/8"
36-134	2-3/4"	3/8"	1-3/8"	1-1/8"	1/2"	3-1/4"
36-136	3"	3/8"	1-1/2"	1-1/4"	1/2"	3-3/8"
36-138	3-1/4"	3/8"	1-9/16"	1-3/8"	1/2"	3-3/8"



By simply ordering the 1/8" larger Ball Bearing and Step Washer you will be able to obtain a rounding over profile.

# EDGE TREATMENT & GROOVING BITS



## Beading Bits

### USE IN



Table Router Hand Router

### APPLICATION

Add a decorative bead profile to furniture and millwork. For rounding over work, add a 1/8" larger bearing and step washer.

### MATERIALS



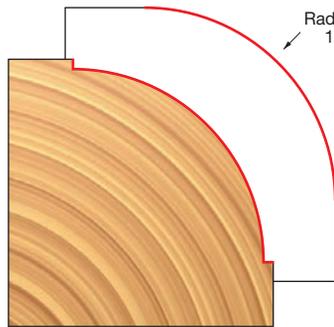
Hardwood

Softwood

MDF

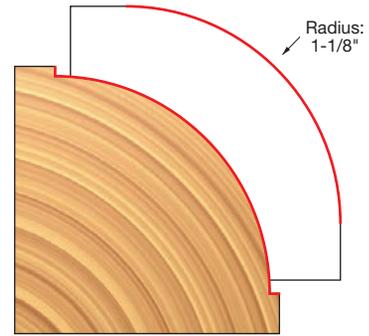
Plywood

CONTINUED



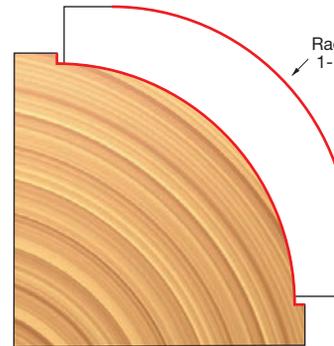
Radius: 1"

36-132



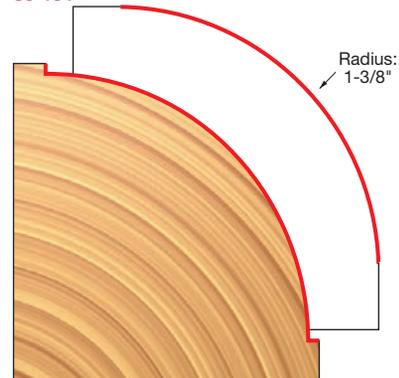
Radius: 1-1/8"

36-134



Radius: 1-1/4"

36-136



Radius: 1-3/8"

36-138

# EDGE TREATMENT & GROOVING BITS



## Variable Corner Round Bit

### USE IN



Table Router Hand Router

### APPLICATION

Saves you time by rounding both edges on a board in one pass.

### MATERIALS



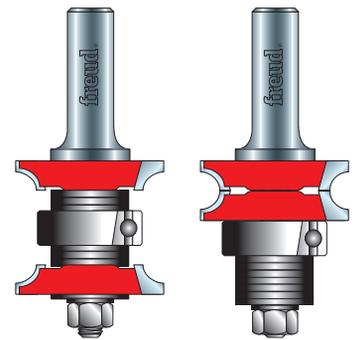
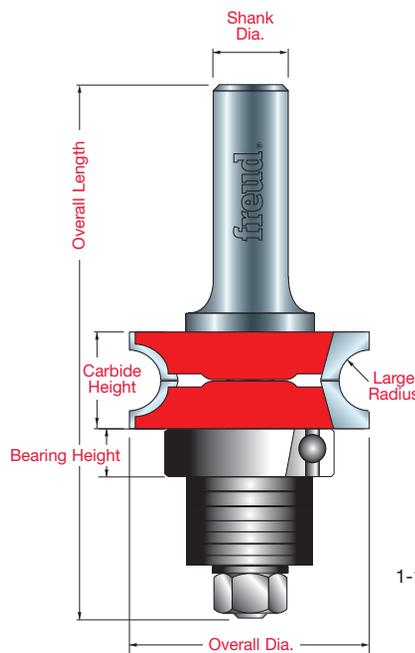
Hardwood

Softwood

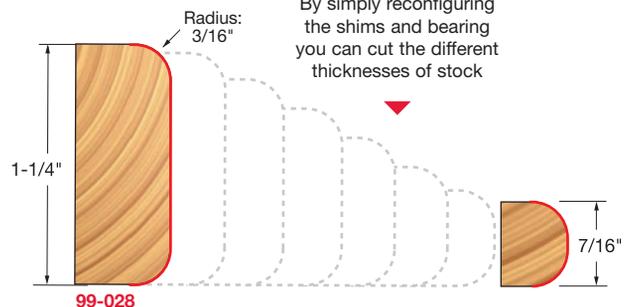
MDF

Plywood

ITEM NUMBER	OVERALL DIA.	BEARING DIA.	CARBIDE HEIGHT	MINOR HEIGHT	LARGE RADIUS	SHANK DIA.	OVERALL LENGTH
99-028	1-19/32"	5/16"	1-7/64"	7/16"-1-1/4"	3/16"	1/2"	3-1/2"



By simply reconfiguring the shims and bearing you can cut the different thicknesses of stock



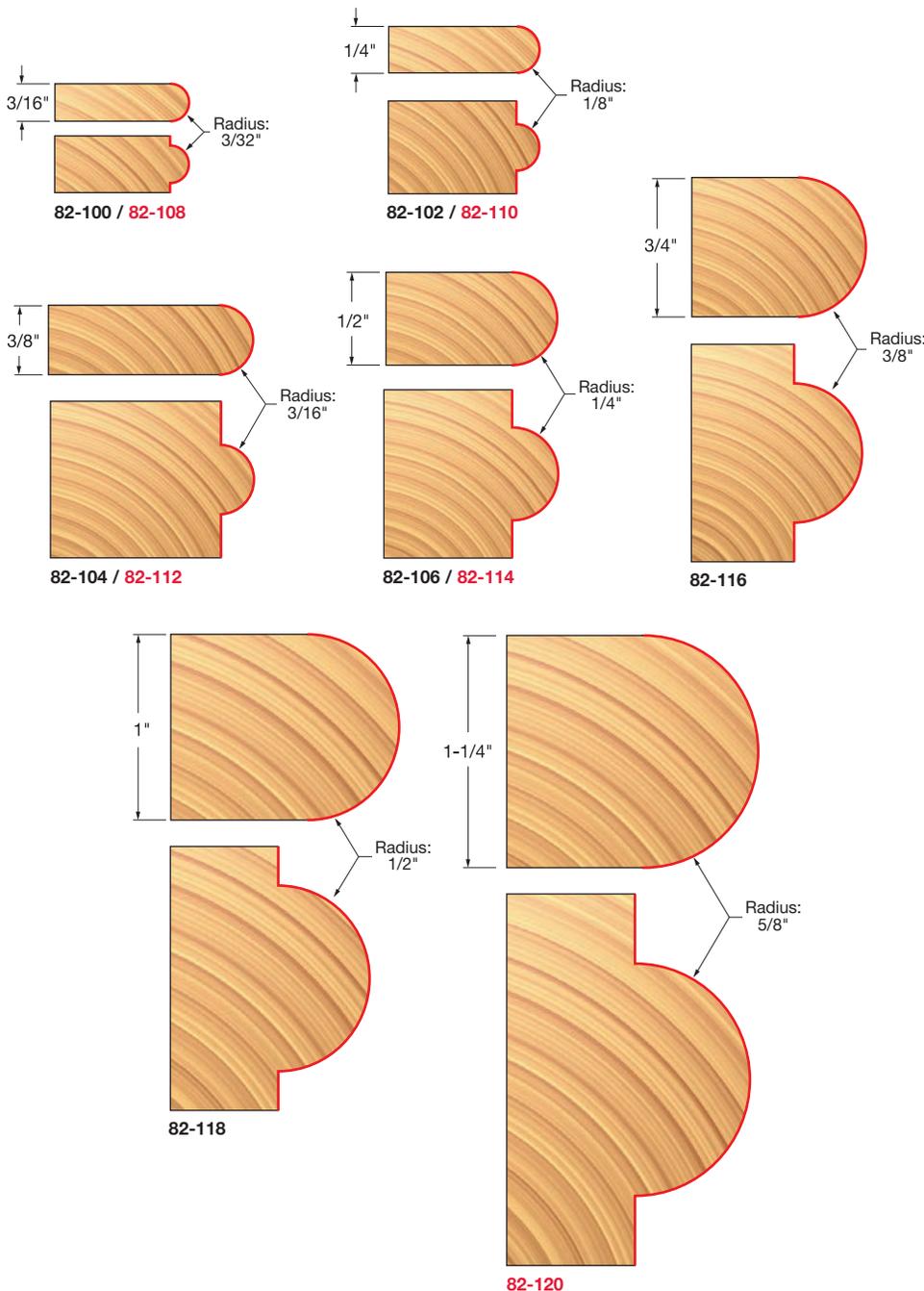
99-028

# Half Round Bits



# EDGE TREATMENT & GROOVING BITS

ITEM NUMBER	OVERALL DIA.	CARBIDE HEIGHT	LARGE RADIUS	SHANK DIA.	OVERALL LENGTH
82-100	11/16"	7/16"	3/32"	1/4"	1-13/16"
82-102	3/4"	1/2"	1/8"	1/4"	1-7/8"
82-104	7/8"	27/32"	3/16"	1/4"	2-1/8"
82-106	1"	29/32"	1/4"	1/4"	2-1/4"
82-108	11/16"	7/16"	3/32"	1/2"	2-1/16"
82-110	3/4"	1/2"	1/8"	1/2"	2-5/32"
82-112	7/8"	27/32"	3/16"	1/2"	2-3/8"
82-114	1"	29/32"	1/4"	1/2"	2-9/16"
82-116	1-29/64"	1-11/64"	3/8"	1/2"	2-13/16"
82-118	1-13/16"	1-27/64"	1/2"	1/2"	2-7/8"
82-120	2"	2"	5/8"	1/2"	3-1/2"



## USE IN



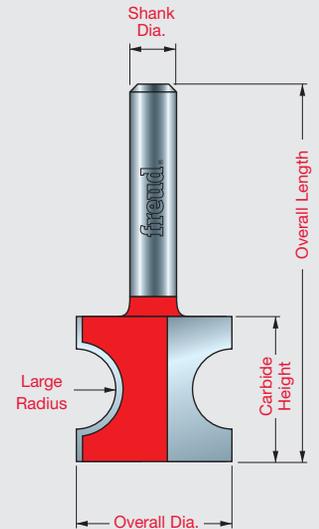
## APPLICATION

Produce a fully rounded edge on dimensional lumber or create an attractive half-round profile on furniture and moldings. Guiding device must be used.

## MATERIALS



ROUTER BITS

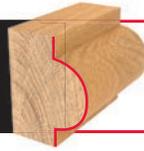


\* Solid Carbide

Red Item Numbers Indicate 1/2" Shank

All Profile Drawings 1:1 Scale

# EDGE TREATMENT & GROOVING BITS



## Half Round Bits with Bearings

### USE IN



Table Router Hand Router

### APPLICATION

Produce a fully rounded edge on dimensional lumber or an attractive half round profile on furniture and moldings. Comes with ball bearing guide for template work.

### MATERIALS

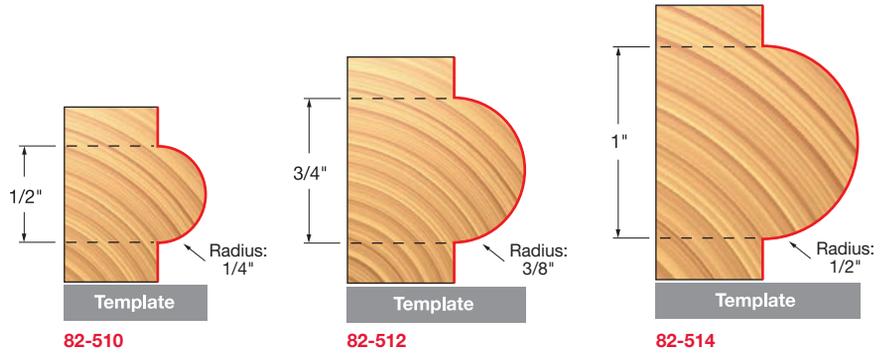


Hardwood Softwood

MDF Plywood

ROUTER BITS

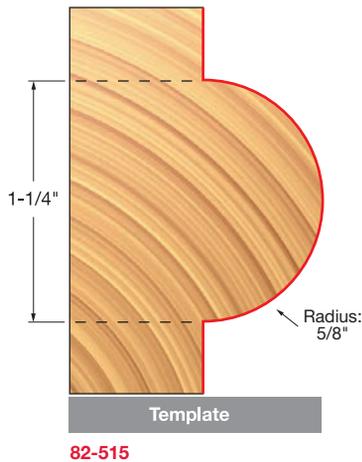
ITEM NUMBER	OVERALL DIA.	BEARING DIA.	CARBIDE HEIGHT	LARGE RADIUS	SHANK DIA.	OVERALL LENGTH
82-510	1-5/32"	5/8"	1"	1/4"	1/2"	2-7/8"
82-512	1-3/8"	5/8"	1-5/16"	3/8"	1/2"	3-1/4"
82-514	1-3/4"	3/4"	1-19/32"	1/2"	1/2"	3-3/4"
82-515	2"	3/4"	2"	5/8"	1/2"	3-13/16"



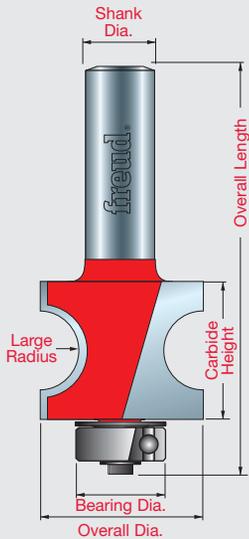
82-510

82-512

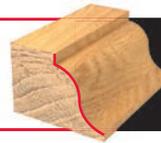
82-514



82-515



# Decorative Edge Bits



# EDGE TREATMENT & GROOVING BITS



USE IN



Table Router Hand Router

## APPLICATION

Add distinctive design to cabinets, furniture, plaques, and millwork

## MATERIALS



Hardwood

Softwood

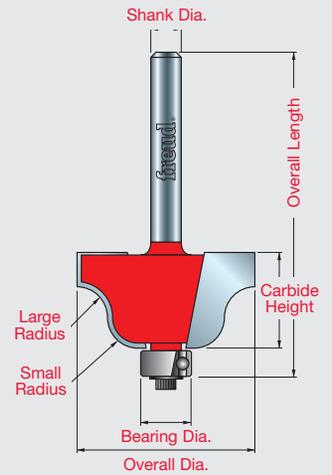
MDF

Plywood

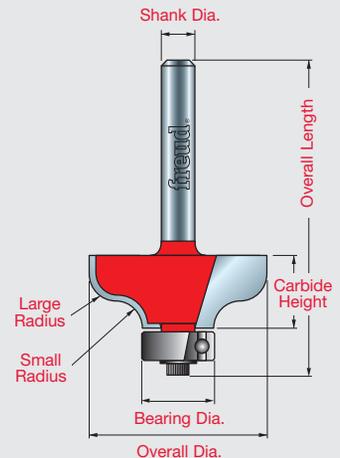
ROUTER BITS

ITEM NUMBER	OVERALL DIA.	BEARING DIA.	CARBIDE HEIGHT	LARGE RADIUS	SMALL RADIUS	MINOR HEIGHT	SHANK DIA.	OVERALL LENGTH
<b>Roman Ogee Bits</b>								
38-100	1-3/16"	1/2"	1/2"	5/32"	-	-	1/4"	2-3/16"
38-102	1-3/8"	3/8"	23/32"	1/4"	-	-	1/4"	2-3/8"
38-104	1-5/16"	5/8"	1/2"	5/32"	-	-	1/2"	2-3/8"
38-106	1-5/8"	5/8"	23/32"	1/4"	-	-	1/2"	2-9/16"
<b>Ogee Bits</b>								
38-152	1-1/4"	1/2"	1/2"	3/16"	-	-	1/4"	2-1/8"
38-154	1-1/2"	1/2"	5/8"	1/4"	-	-	1/4"	2-3/16"
99-006	1-5/8"	5/8"	21/32"	21/64"	-	-	1/2"	2-1/2"
38-172	1-3/8"	3/4"	1/2"	5/32"	-	-	1/2"	2-1/4"
<b>Ogee Fillet Bits</b>								
38-202	1-1/4"	3/8"	1/2"	3/16"	-	-	1/4"	2-1/8"
38-204	1-1/2"	3/8"	5/8"	1/4"	-	-	1/4"	2-3/16"
38-222	1-3/8"	5/8"	1/2"	5/32"	-	-	1/2"	2-1/4"
38-224	1-5/8"	1/2"	3/4"	1/4"	-	-	1/2"	2-1/2"
<b>Classical Roman Ogee Bits</b>								
38-402	1-1/4"	1/2"	19/32"	1/8"	-	15/64"	1/4"	2-3/16"
99-005	1-5/8"	3/4"	9/16"	3/16"	-	7/32"	1/2"	2-7/16"
<b>Double Fillet Ogee Bit</b>								
38-452	1-1/4"	3/8"	19/32"	1/8"	-	-	1/4"	2-3/16"
99-003	1-5/8"	5/8"	9/16"	11/64"	-	-	1/2"	2-5/16"
<b>Cove &amp; Bead Bits</b>								
38-302	1-5/32"	3/8"	5/8"	1/8"	-	7/32"	1/4"	2-3/16"
38-304	1-9/16"	3/8"	23/32"	1/4"	-	7/32"	1/4"	2-5/16"
38-312	1-13/32"	5/8"	5/8"	1/8"	-	7/32"	1/2"	2-9/16"
38-314	1-11/16"	1/2"	23/32"	1/4"	-	7/32"	1/2"	2-3/4"
99-009	1-5/8"	5/8"	9/16"	13/64"	-	7/32"	1/2"	2-3/8"
<b>Classical Cove &amp; Bead Bits</b>								
38-352	1-5/8"	5/8"	5/8"	1/4"	5/32"	-	1/4"	2-5/16"
38-362	1-3/8"	5/8"	5/8"	1/4"	5/32"	-	1/2"	2-1/2"
<b>Classical Bold Cove &amp; Round Bits</b>								
38-502	1-1/4"	1/2"	7/16"	3/16"	-	-	1/4"	2-1/16"
38-504	1-1/2"	1/2"	11/16"	1/4"	-	-	1/4"	2-1/2"
<b>Classical Bold Cove &amp; Bead Bits</b>								
38-522	1-1/4"	3/8"	7/16"	3/16"	-	-	1/4"	2-1/16"
38-524	1-1/2"	3/8"	11/16"	1/4"	-	-	1/4"	2-5/16"
<b>Classical Cove &amp; Round Bits</b>								
38-602	1-1/8"	1/2"	1/2"	5/32"	-	5/64"	1/4"	2-5/16"
38-612	1-3/8"	3/4"	1/2"	5/32"	-	5/64"	1/2"	2-9/16"
38-613	1-3/8"	1/2"	3/4"	1/4"	3/16"	5/64"	1/4"	2-1/4"
38-614	1-5/8"	3/4"	11/16"	1/4"	3/16"	5/64"	1/2"	2-3/4"
38-622	1-1/8"	3/8"	1/2"	5/32"	-	5/64"	1/4"	2-5/16"
38-632	1-3/8"	5/8"	1/2"	5/32"	-	5/64"	1/2"	2-9/16"

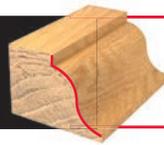
Roman Ogee Bit



Ogee Bit



# EDGE TREATMENT & GROOVING BITS



## Decorative Edge Bits

CONTINUED

### USE IN



Table Router Hand Router

### APPLICATION

Add distinctive design to cabinets, furniture, plaques, and millwork

### MATERIALS



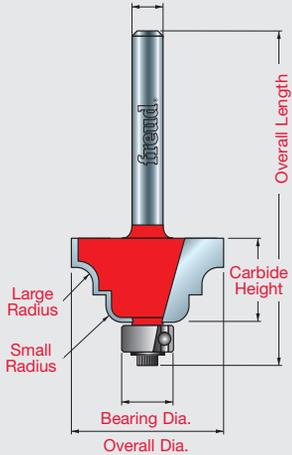
Hardwood Softwood



Plywood Laminate

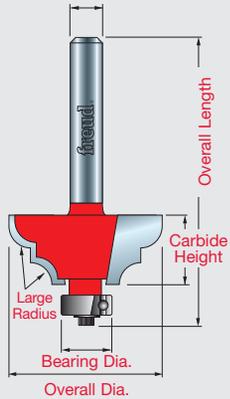
### Cove & Bead Bit

Shank Dia.

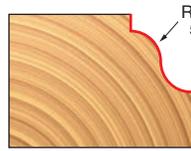


### Classical Cove & Round Bits

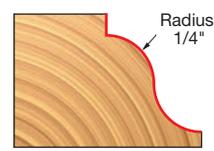
Shank Dia.



### Roman Ogree Bits

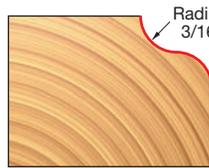


38-100 / 38-104

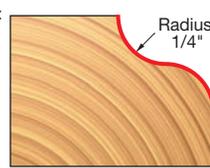


38-102 / 38-106

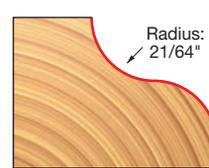
### Ogree Bits



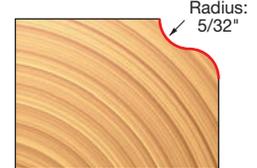
38-152



38-154

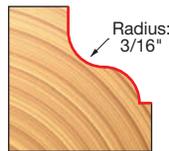


99-006

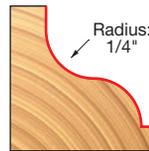


38-172

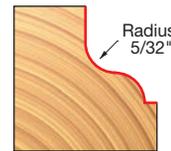
### Ogree Fillet Bits



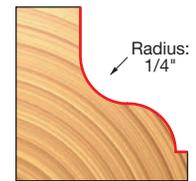
38-202



38-204



38-222

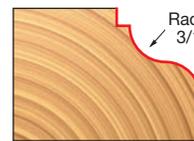


38-224

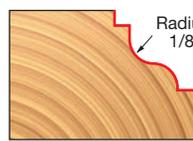
### Classical Roman Ogree Bits



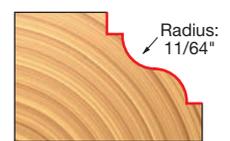
38-402



99-005



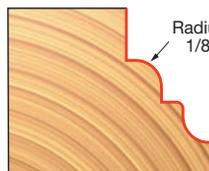
38-452



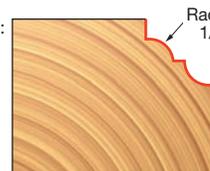
99-003

### Double Fillet Ogree Bits

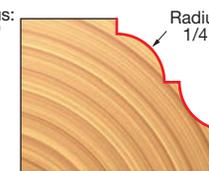
### Cove & Bead Bits



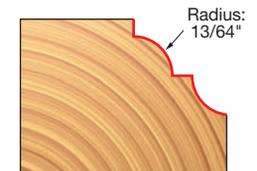
38-302



38-312

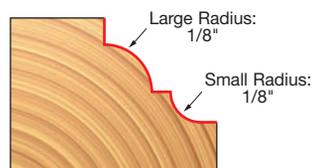


38-304 / 38-314



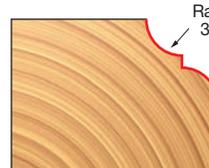
99-009

### Classical Cove & Bead Bits

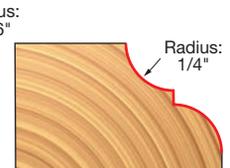


38-352 / 38-362

### Classical Bold Cove & Round Bits

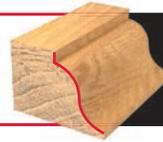


38-502



38-504

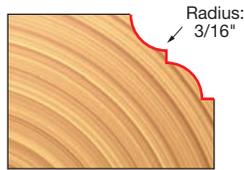
## Decorative Edge Bits



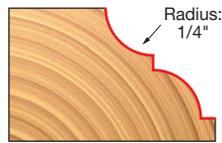
## EDGE TREATMENT & GROOVING BITS

CONTINUED

### Classical Bold Cove & Bead Bits

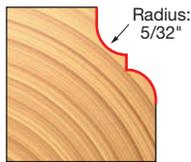


38-522

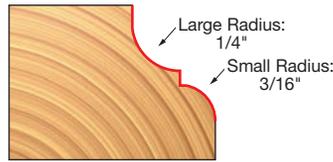


38-524

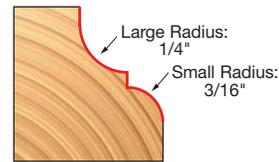
### Classical Cove & Round Bits



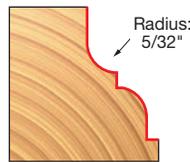
38-602 / 38-612



38-613



38-614



38-622 / 38-632

### USE IN



Table Router Hand Router

### APPLICATION

Add distinctive design to cabinets, furniture, plaques, and millwork

### MATERIALS



Hardwood

Softwood

MDF

Plywood

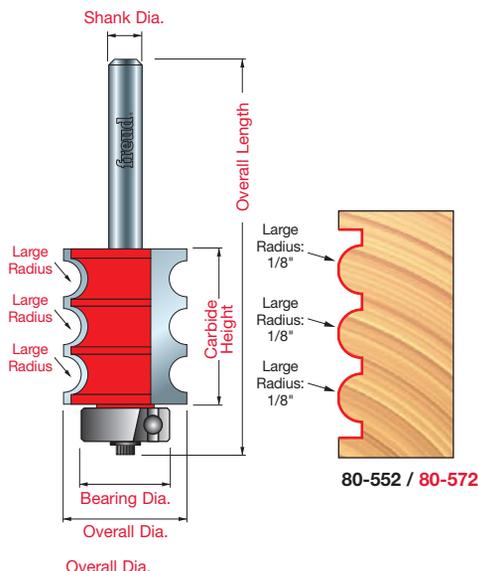
ROUTER BITS

## Triple Beading & Fluting Bits

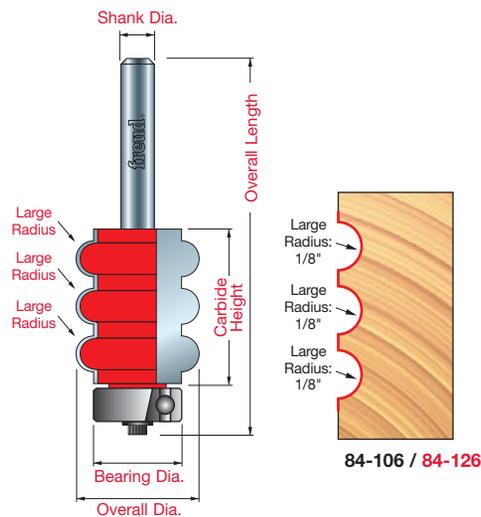


## EDGE TREATMENT & GROOVING BITS

ITEM NUMBER	OVERALL DIA.	BEARING DIA.	CARBIDE HEIGHT	LARGE RADIUS	SHANK DIA.	OVERALL LENGTH
80-552	7/8"	5/8"	1-5/64"	1/8"	1/4"	2-3/4"
80-572	7/8"	5/8"	1-5/64"	1/8"	1/2"	3-1/8"
84-106	7/8"	5/8"	1-5/64"	1/8"	1/4"	2-5/8"
84-126	7/8"	5/8"	1-5/64"	1/8"	1/2"	3"



80-552 / 80-572



84-106 / 84-126

### USE IN



Hand Router

CNC

### APPLICATION

Columns, posts and decorative moldings. Enhances moldings and furniture with multiple beads and fluting.

### MATERIALS



Hardwood

Softwood

MDF

Plywood

\* Solid Carbide

Red Item Numbers Indicate 1/2" Shank

All Profile Drawings 1:1 Scale

freud® 147

# EDGE TREATMENT & GROOVING BITS



## Bold Classical Bits

### USE IN



Table Router Hand Router

### APPLICATION

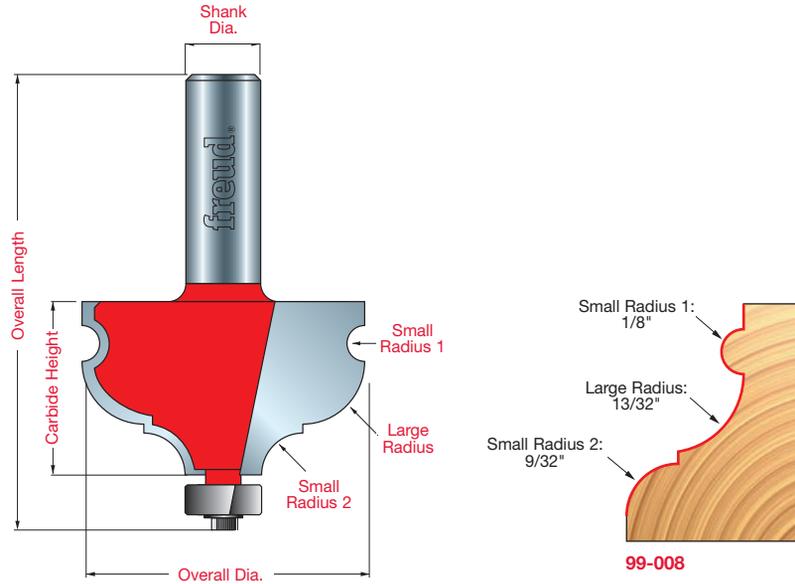
Forms beautiful wainscot and panel moldings. Create numerous molding profiles by using various bearings and multiple passes.

### MATERIALS



ROUTER BITS

ITEM NUMBER	OVERALL DIA.	CARBIDE HEIGHT	LARGE RADIUS	SMALL RADIUS 1	SMALL RADIUS 2	SHANK DIA.	OVERALL LENGTH
99-008	1-3/4"	1-1/8"	13/32"	9/32"	1/8"	1/2"	3"



# EDGE TREATMENT & GROOVING BITS



## Flute Bits

### USE IN



Table Router Hand Router

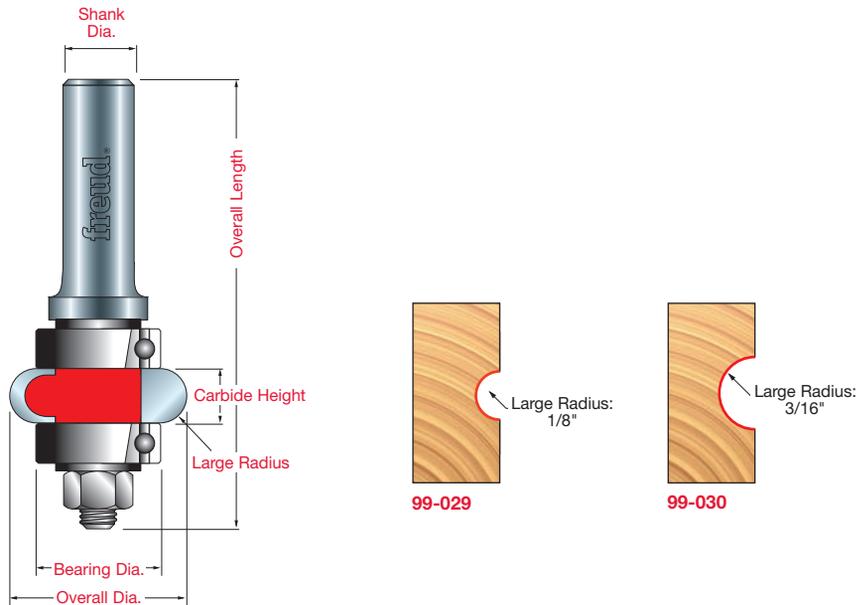
### APPLICATION

These bits include double bearings to create a fluted design for chair legs and moldings. Ideal for the production of Chippendale style furniture.

### MATERIALS



ITEM NUMBER	OVERALL DIA.	BEARING DIA.	CARBIDE HEIGHT	LARGE RADIUS	SHANK DIA.	OVERALL LENGTH
99-029	1-1/8"	1/4"	1/4"	1/8"	1/2"	3"
99-030	1-1/4"	3/8"	3/8"	3/16"	1/2"	3"

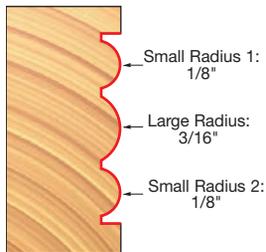


## Triple Beading Bits

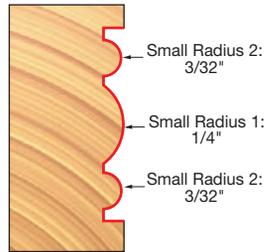


## EDGE TREATMENT & GROOVING BITS

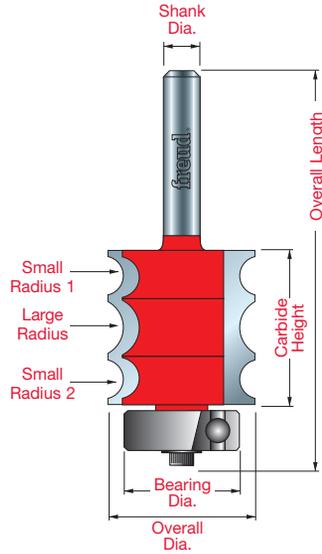
ITEM NUMBER	OVERALL DIA.	BEARING DIA.	CARBIDE HEIGHT	SMALL RADIUS 1	SMALL RADIUS 2	SHANK DIA.	OVERALL LENGTH
80-558	15/16"	3/4"	1"	3/16"	1/8"	1/4"	2-5/8"
80-578	15/16"	3/4"	1"	3/16"	1/8"	1/2"	2-3/4"
80-584	15/16"	3/4"	1"	1/4"	3/32"	1/2"	2-3/4"



80-558 / 80-578



80-584



### USE IN



Table Router Hand Router

### APPLICATION

Ornate multiple beads for decorative molding. Create three beads in one pass for decorative molding and furniture.

### MATERIALS



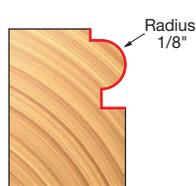
ROUTER BITS

## Traditional Beading Bits

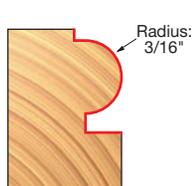


## EDGE TREATMENT & GROOVING BITS

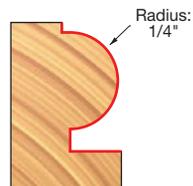
ITEM NUMBER	OVERALL DIA.	BEARING DIA.	CARBIDE HEIGHT	LARGE RADIUS	SHANK DIA.	OVERALL LENGTH
80-102	1"	1/2"	9/16"	1/8"	1/4"	2-3/16"
80-104	1-1/4"	1/2"	11/16"	3/16"	1/4"	2-5/16"
80-106	1-1/8"	1/2"	7/8"	1/4"	1/4"	2-3/8"
80-108	1-3/8"	1/2"	3/4"	9/32"	1/4"	2-3/8"
80-122	1"	1/2"	9/16"	1/8"	1/2"	2-7/16"
80-124	1-1/4"	1/2"	11/16"	3/16"	1/2"	2-9/16"
80-126	1-1/8"	1/2"	7/8"	1/4"	1/2"	2-5/8"
80-128	1-3/8"	1/2"	3/4"	9/32"	1/2"	2-5/8"
80-130	1-9/16"	1/2"	1"	3/8"	1/2"	2-7/8"



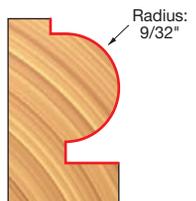
80-102 / 80-122



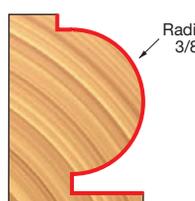
80-104 / 80-124



80-106 / 80-126



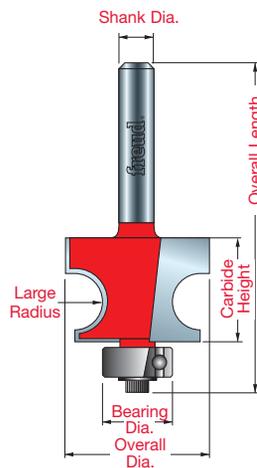
80-108 / 80-128



80-130



Example of profile



### USE IN



Table Router Hand Router

### APPLICATION

Forms a single bead with a square shoulder. Commonly used by remodelers to match base moldings in historic homes.

### MATERIALS

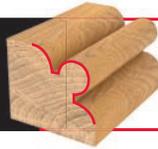


\* Solid Carbide

Red Item Numbers Indicate 1/2" Shank

All Profile Drawings 1:1 Scale

# EDGE TREATMENT & GROOVING BITS



## Corner Beading Bits

### USE IN



Table Router Hand Router

### APPLICATION

Adds an attractive bead to beams, posts, railings, and millwork. Ideal for accenting square table legs.

### MATERIALS



Hardwood

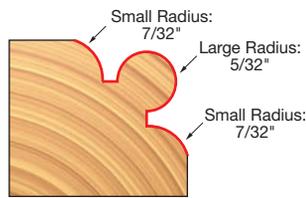
Softwood

Plywood

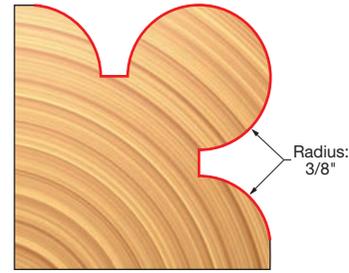
Laminate

ROUTER BITS

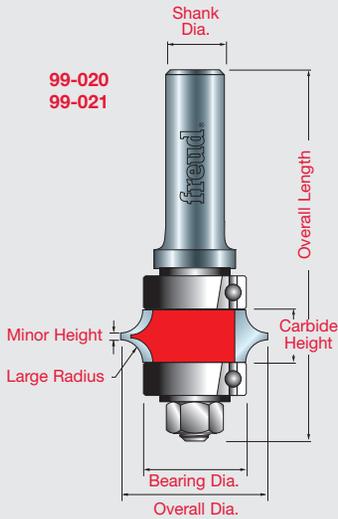
ITEM NUMBER	OVERALL DIA.	BEARING DIA.	CARBIDE HEIGHT	LARGE RADIUS	SMALL RADIUS	MINOR HEIGHT	SHANK DIA.	OVERALL LENGTH
99-020	15/16"	1/2"	5/8"	7/32"	5/32"	5/64"	1/2"	2-1/2"
99-021	1-1/4"	1/2"	1-15/32"	3/8"	-	9/64"	1/2"	3-3/8"
99-022	1-37/64"	1/2"	1-1/2"	15/32"	25/64"	15/64"	1/2"	3-3/8"
99-023	1-5/8"	7/8"	53/64"	3/8"	-	5/64"	1/2"	3-7/16"
99-024	1-3/8"	7/8"	37/64"	1/4"	-	5/64"	1/2"	3-3/16"
99-025	1-1/4"	7/8"	1/2"	3/16"	-	1/8"	1/2"	3-1/8"



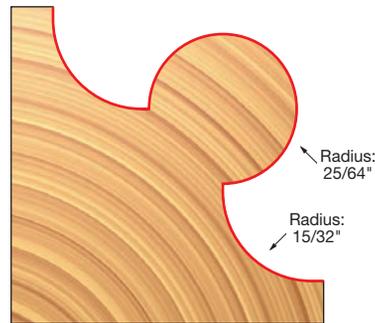
99-020



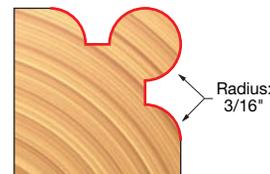
99-021 / 99-023



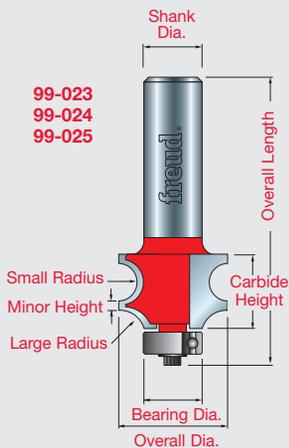
99-020  
99-021



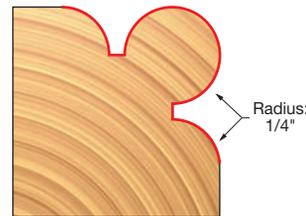
99-022



99-025

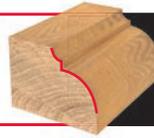


99-023  
99-024  
99-025



99-024

## Table Top Edge Classical Bit



## EDGE TREATMENT & GROOVING BITS

ITEM NUMBER	OVERALL DIA.	BEARING DIA.	CARBIDE HEIGHT	LARGE RADIUS	SMALL RADIUS	SHANK DIA.	OVERALL LENGTH
99-010	1-1/2"	5/8"	9/16"	3/8"	1/8"	1/2"	2-1/2"



USE IN



Table Router Hand Router

### APPLICATION

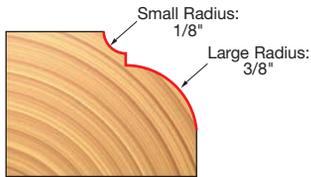
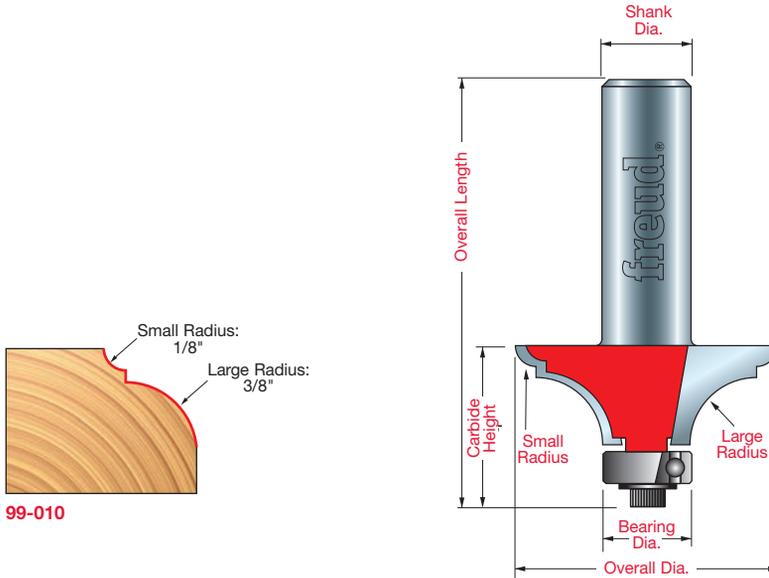
Ornamental edge for tables and desks. Ideal for enhancing the beauty of the wood found in occasional and dining room tables.

### MATERIALS



Hardwood Softwood Plywood

MDF Laminate



99-010

ROUTER BITS

## Table Top Edge Classical Bold Bit



## EDGE TREATMENT & GROOVING BITS

ITEM NUMBER	OVERALL DIA.	BEARING DIA.	CARBIDE HEIGHT	LARGE RADIUS	SMALL RADIUS	SHANK DIA.	OVERALL LENGTH
99-011	1-5/8"	1/2"	5/8"	25/64"	11/64"	1/2"	2-1/2"



USE IN



Table Router Hand Router

### APPLICATION

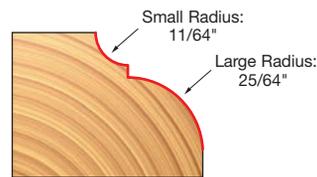
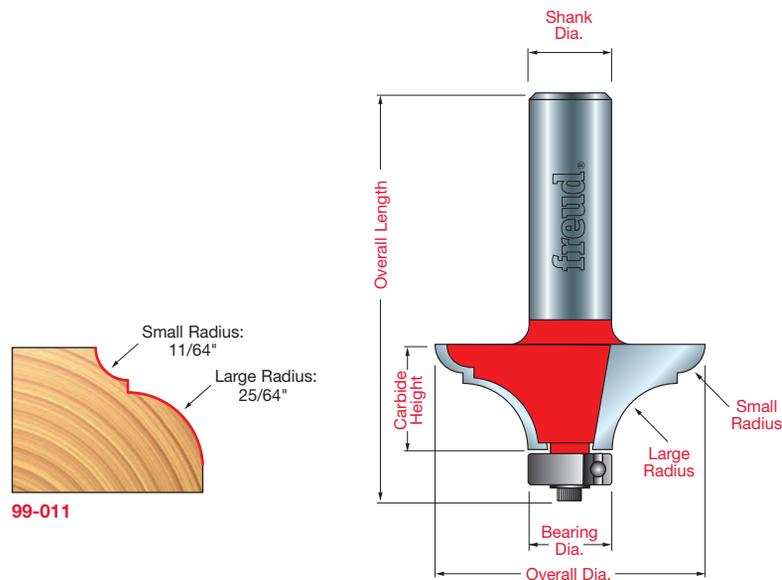
Decorative edge for tables and desks. Designed with sharp curves to generate a strong, uplifting edge.

### MATERIALS



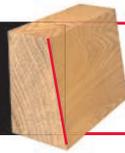
Hardwood Softwood Plywood

MDF Laminate



99-011

# EDGE TREATMENT & GROOVING BITS



## Chamfer Bits

### USE IN



Table Router Hand Router

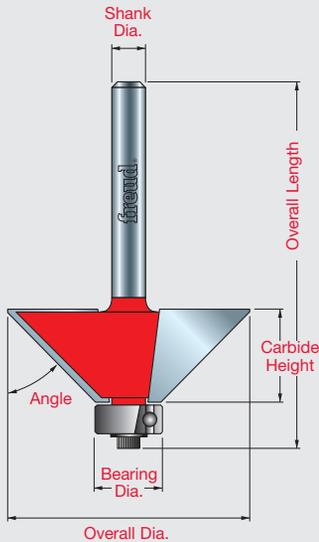
### APPLICATION

Creates a uniform chamfer on the edge of any work piece to add character, while retaining crisp geometric lines. #40-094 makes 16-sided pieces and #40-098 makes 12-sided pieces. Chamfer size easily adjusts by changing the height of the bit.

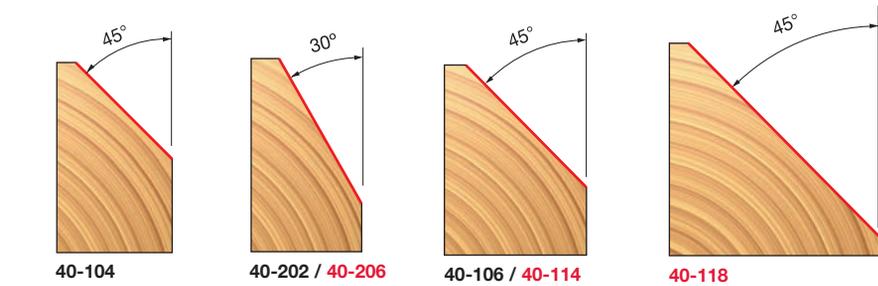
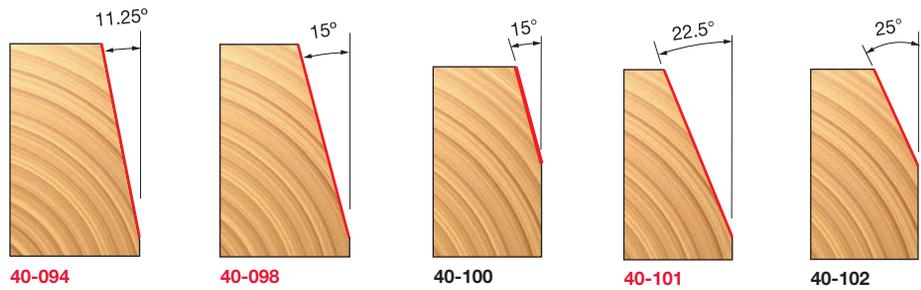
### MATERIALS



Hardwood Softwood MDF  
Plywood Laminate



ITEM NUMBER	OVERALL DIA.	BEARING DIA.	CARBIDE HEIGHT	ANGLE	SHANK DIA.	OVERALL LENGTH
40-094	7/8"	1/2"	1"	11-1/4°	1/2"	2-3/4"
40-098	1"	1/2"	1"	15°	1/2"	2-7/8"
40-100	23/32"	1/2"	1/2"	15°	1/4"	2-3/16"
40-101	1-1/4"	1/2"	7/8"	22-1/2°	1/2"	2-5/8"
40-102	15/16"	1/2"	1/2"	25°	1/4"	2-3/16"
40-104	1-11/32"	1/2"	1/2"	45°	1/4"	2-3/16"
40-106	1-3/4"	1/2"	5/8"	45°	1/4"	2-3/16"
40-114	1-5/8"	3/8"	5/8"	45°	1/2"	2-9/16"
40-118	2-1/2"	1/2"	1"	45°	1/2"	2-7/8"
40-202	1-11/32"	1/2"	3/4"	30°	1/4"	2-1/4"
40-206	1-11/32"	1/2"	3/4"	30°	1/2"	2-3/4"



# Multi Profile Bits

# EDGE TREATMENT & GROOVING BITS

ITEM NUMBER	SMALL DIA.	CARBIDE HEIGHT	MINOR HEIGHT	LARGE RADIUS	SMALL RADIUS 1	SMALL RADIUS 2	SMALL RADIUS 3	SHANK DIA.	OVERALL LENGTH
99-PKJ	1-1/2"	-	1-7/64"	-	7/32"	3/16"	1/8"	1/2"	3"
99-PK1	2-5/32"	-	1-59/64"	-	25/64"	5/16"	15/64"	1/2"	4"
99-PK2	1-1/4"	1-3/32"	51/64"	5/64"	3/8"	5/64"	-	1/2"	2-1/4"
99-PK3	1-1/4"	1-3/32"	29/32"	5/64"	3/8"	5/64"	-	1/2"	2-7/16"
99-PK7	2-33/64"	1-7/32"	1-51/64"	3/32"	1/4"	3/16"	-	1/2"	3-1/2"

## USE IN



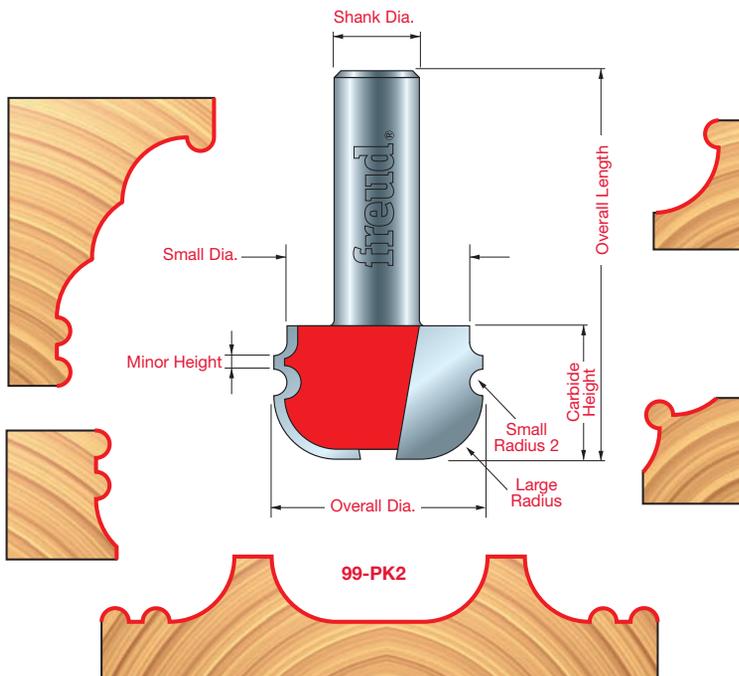
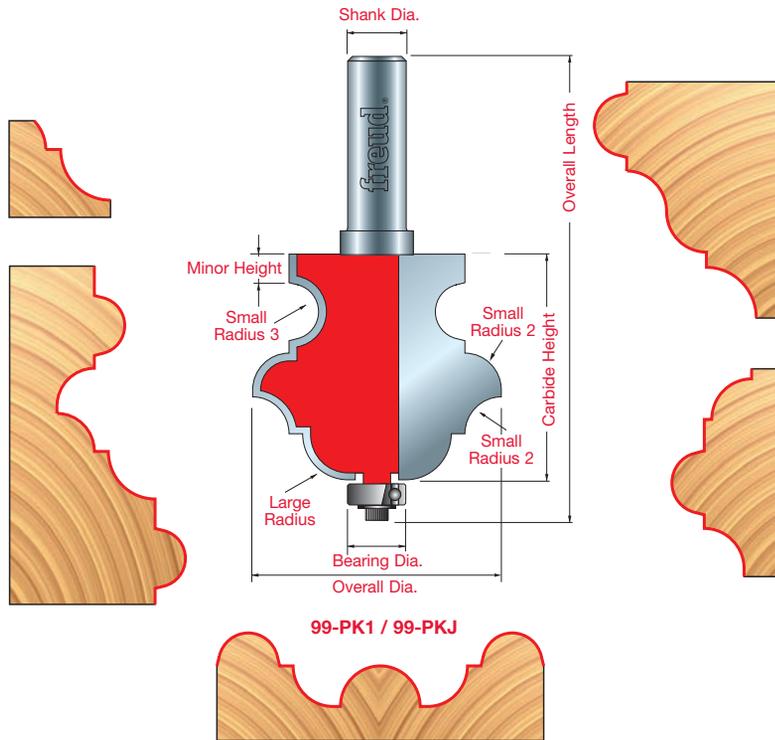
## APPLICATION

Thick carbide tips and a sturdy 1/2" shank allow you to produce countless molding profiles. Produce an endless number of profile designs by varying the height and fence settings and making multiple passes.

## MATERIALS



ROUTER BITS



Examples of multi-profiles



\* Solid Carbide

Red Item Numbers Indicate 1/2" Shank

All Profile Drawings 1:1 Scale

# EDGE TREATMENT & GROOVING BITS

## Multi Profile Bits

### USE IN



Table Router Hand Router

### APPLICATION

Thick carbide tips and a sturdy 1/2" shank allow you to produce countless molding profiles. Produce an endless number of profile designs by varying the height and fence settings and making multiple passes.

### MATERIALS



Hardwood Softwood

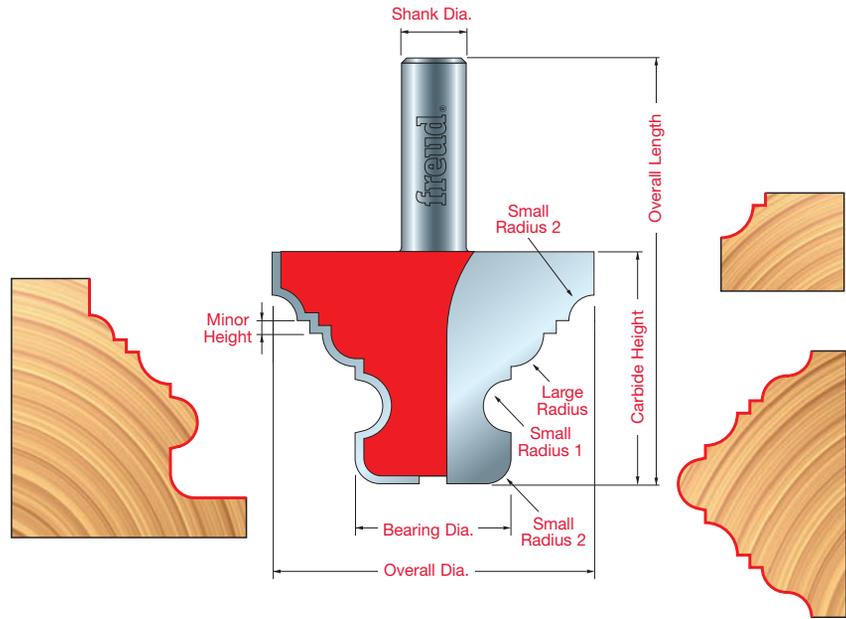
Plywood Laminate



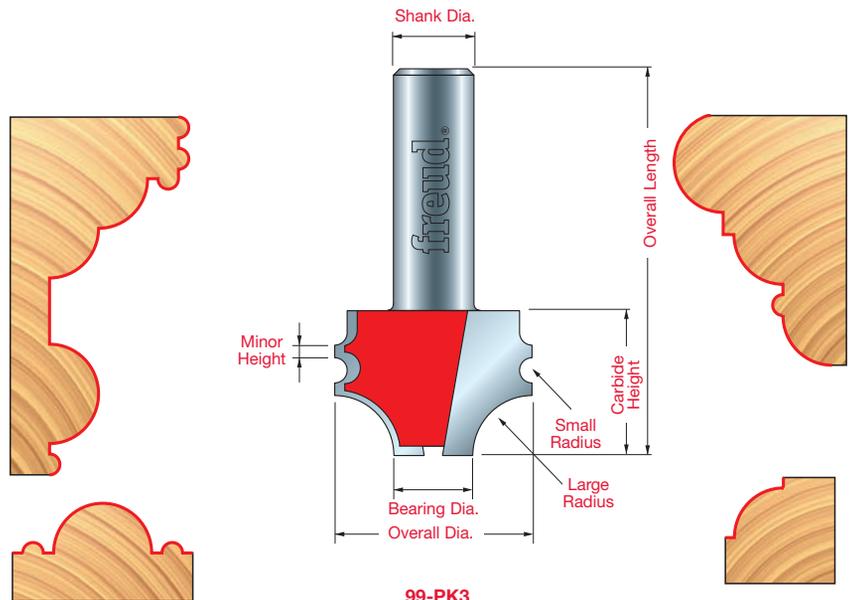
Examples of multi-profiles



CONTINUED



99-PK7



99-PK3



# Brick Molding Bit

# ARCHITECTURAL MILLWORK BITS

ITEM NUMBER	PROFILE DESIGN	OVERALL DIA.	CARBIDE HEIGHT	SHANK DIA.	OVERALL LENGTH
99-460	Brick Molding #180	3-1/2"	1/2"	1/2"	3"



Architectural Molding Series

### USE IN



Table Router



CNC

### APPLICATION

Creates industry standard Brick Molding profile #180. Mill straight or arched molding to fit windows, doors or arched openings. Features Freud's patented Quadra-Cut™ technology for extra-clean cuts in cross-grain applications.

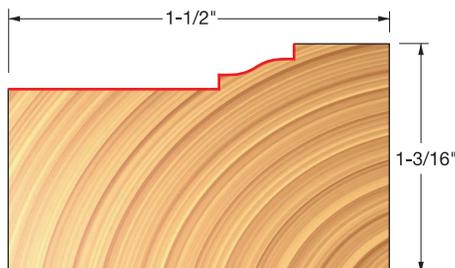
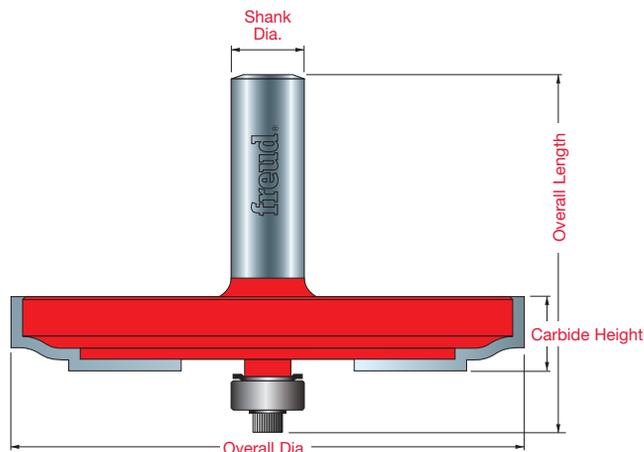
### MATERIALS



Hardwood Softwood



MDF



99-460  
Standard Brick Molding Profile # 180



ROUTER BITS

# ARCHITECTURAL MILLWORK BIT



## Casing Bits



### Architectural Molding Series

#### USE IN



Table Router    CNC

#### APPLICATION

Creates industry standard casing profiles #356, #366, #376, and #445. Perfectly match four standard door casing designs with your choice of wood. Add elegant detail to doors, windows, built-ins and many other projects.

#### MATERIALS

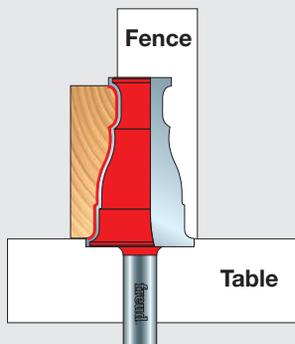


Hardwood    Softwood

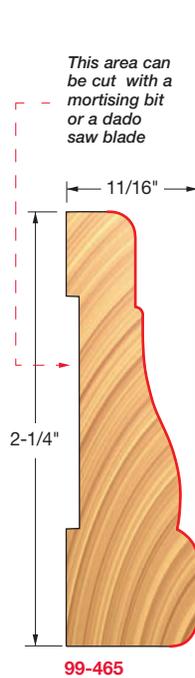


MDF

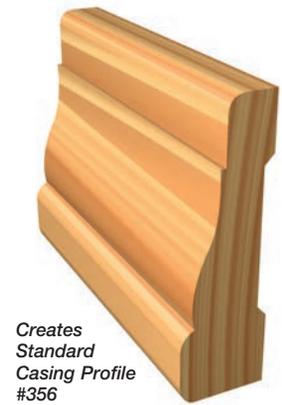
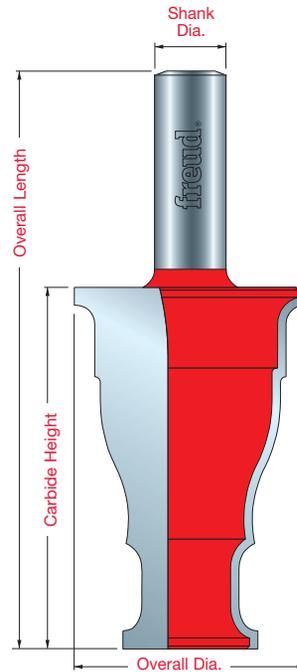
#### ROUTING TECHNIQUE FOR ALL CASING PROFILES



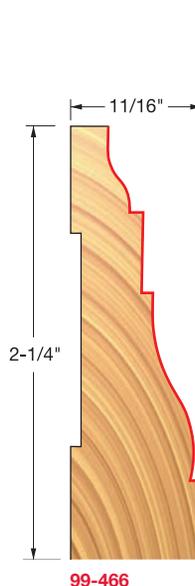
ITEM NUMBER	PROFILE DESIGN	OVERALL DIA.	CARBIDE HEIGHT	SHANK DIA.	OVERALL LENGTH
99-465	Casing #356	1-5/8"	2-1/2"	1/2"	4"
99-466	Casing #366	1-1/2"	1-13/16"	1/2"	3-9/32"
99-467	Casing #376	1-5/8"	1-15/16"	1/2"	3-7/16"
99-468	Casing #445	1-1/2"	2-7/8"	1/2"	4-3/8"



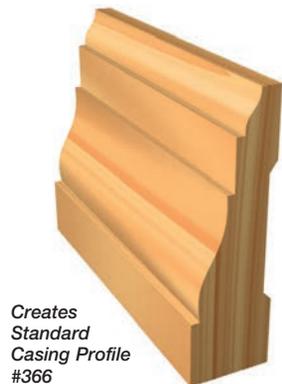
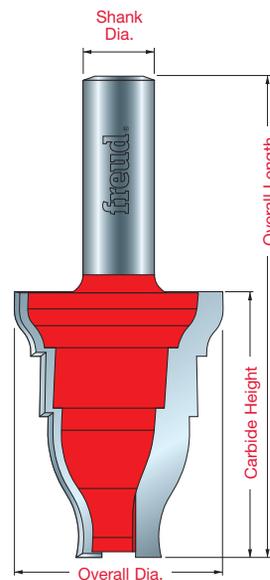
99-465



Creates Standard Casing Profile #356



99-466

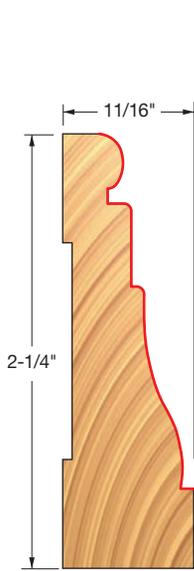


Creates Standard Casing Profile #366

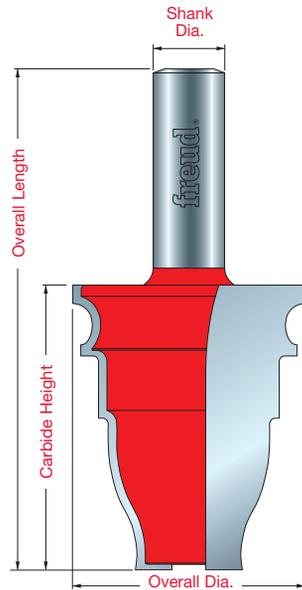
# Casing Bits

# ARCHITECTURAL MILLWORK BITS

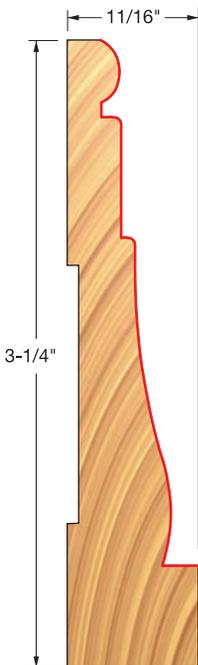
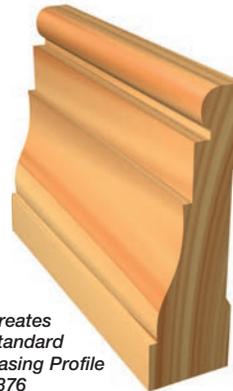
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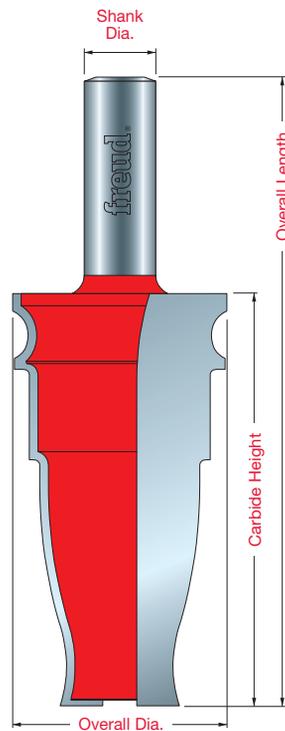
99-467



Creates Standard Casing Profile #376



99-468



Creates Standard Casing Profile #445



## Architectural Molding Series

### USE IN



Table Router



CNC

### APPLICATION

Creates industry standard casing profiles #356, #366, #376, and #445. Perfectly match four standard door casing designs with your choice of wood. Add elegant detail to doors, windows, built-ins and many other projects.

### MATERIALS



Hardwood

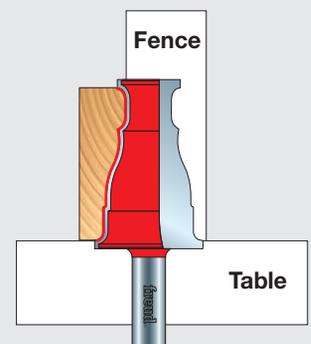


Softwood



MDF

### ROUTING TECHNIQUE FOR ALL CASING PROFILES



ROUTER BITS

# ARCHITECTURAL MILLWORK BITS



## Chair Rail Bits



### Architectural Molding Series

#### USE IN



#### APPLICATION

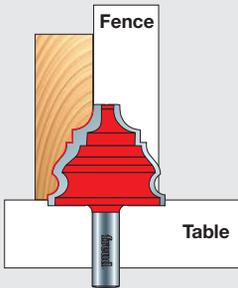
Creates standard decorative chair rail profiles as well as beautiful panel moldings. Create two very popular chair rail designs. Bits for chair #300 can also be used by themselves for other profiles.

#### MATERIALS

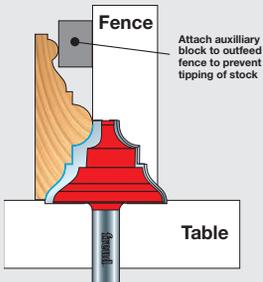


#### ROUTING TECHNIQUE

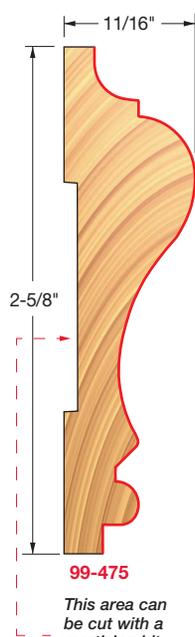
##### First Cut (Using Bit 99-478)



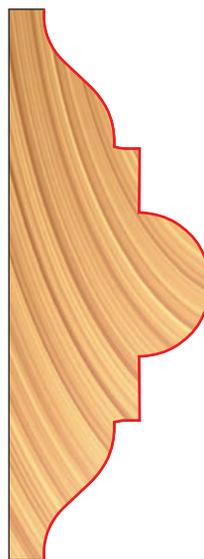
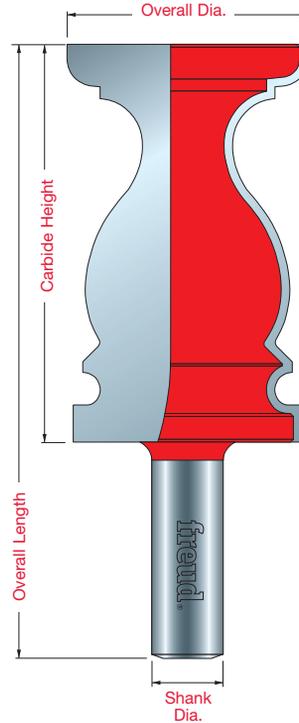
##### Second Cut (Using Bit 99-477)



ITEM NUMBER	PROFILE DESIGN	OVERALL DIA.	CARBIDE HEIGHT	SHANK DIA.	OVERALL LENGTH
99-475	Chair Rail #390	1-11/16"	2-3/4"	1/2"	4-1/4"
99-477	Chair #300, upper	2-1/4"	1-1/2"	1/2"	3"
99-478	Chair #300, lower	2-3/16"	1-13/16"	1/2"	3-5/16"



This area can be cut with a mortising bit or a dado saw blade



# Chair Rail Bits

CONTINUED

# ARCHITECTURAL MILLWORK BITS



**Architectural Molding Series**

**USE IN**



Table Router



CNC

**APPLICATION**

Creates standard decorative chair rail profiles as well as beautiful panel moldings. Create two very popular chair rail designs. Bits for chair #300 can also be used by themselves for other profiles.

**MATERIALS**



Hardwood Softwood

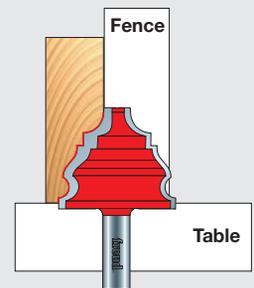


MDF

**ROUTING TECHNIQUE**

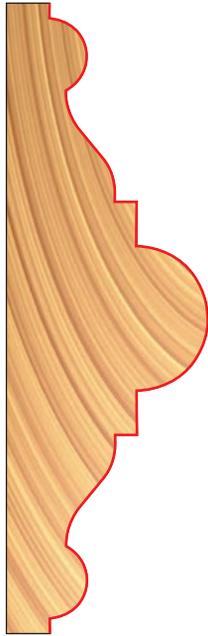
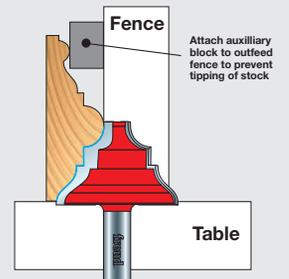
**First Cut**

(Using Bit 99-478)



**Second Cut**

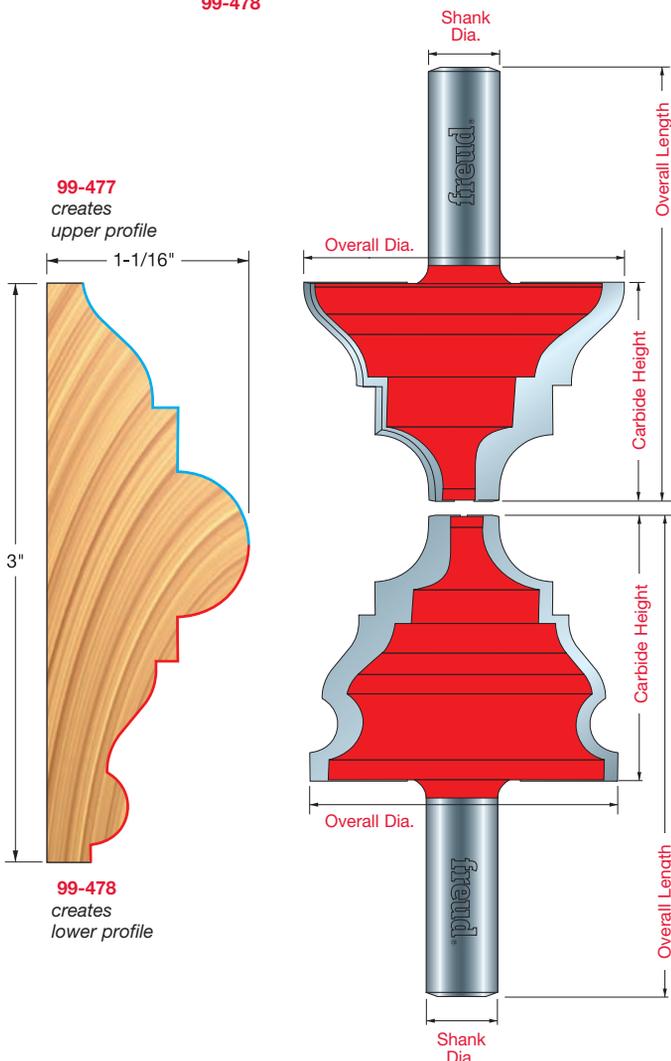
(Using Bit 99-477)



99-478



not to scale



not to scale

\* Solid Carbide

Red Item Numbers Indicate 1/2" Shank

All Profile Drawings 1:1 Scale

# ARCHITECTURAL MILLWORK BITS



## Base and Cap Bits



### Architectural Molding Series

#### USE IN



Table Router    CNC

#### APPLICATION

Mill base or traditional "mop" boards in any width. Ideal for renovators who need to match old, extra-high base moldings. Bits can be used to rout base cap only, or to profile the edge of wide base molding.

#### MATERIALS

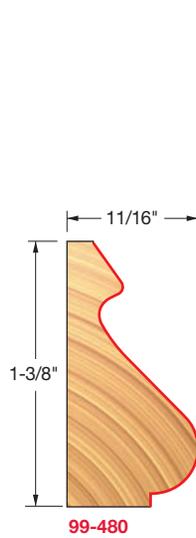


Hardwood    Softwood

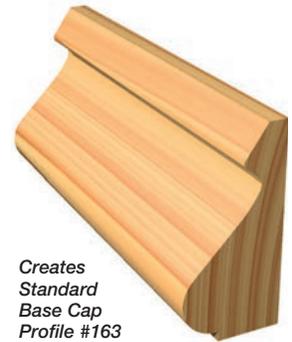
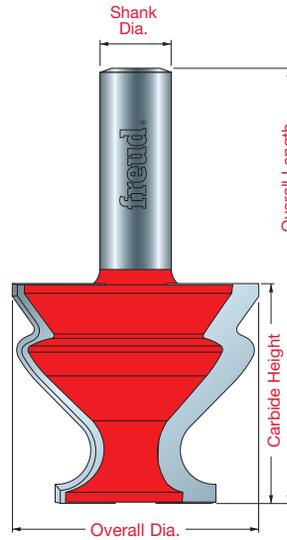
MDF

ROUTER BITS

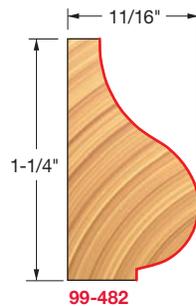
ITEM NUMBER	PROFILE DESIGN	OVERALL DIA.	CARBIDE HEIGHT	SHANK DIA.	OVERALL LENGTH
99-480	Base Cap #163	1-3/4"	1-1/2"	1/2"	3"
99-482	Base Cap #166	1-11/16"	1-1/2"	1/2"	2-7/8"
99-484	Base Molding*	1-11/16"	15/32"	1/2"	2-3/8"



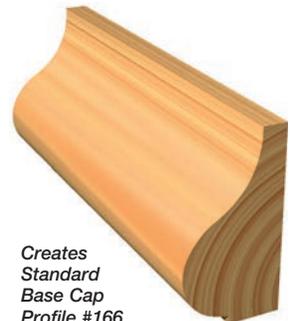
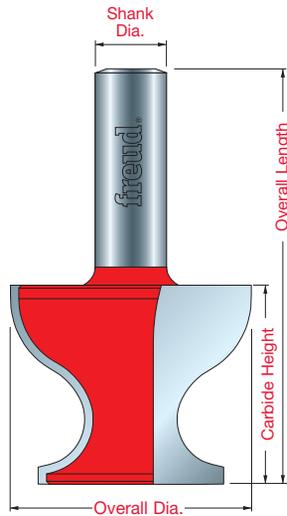
99-480



Creates Standard Base Cap Profile #163



99-482



Creates Standard Base Cap Profile #166

# Base and Cap Bits

CONTINUED

# ARCHITECTURAL MILLWORK BITS



## Architectural Molding Series

### USE IN



Table Router



CNC

### APPLICATION

Mill base or traditional "mop" boards in any width. Ideal for renovators who need to match old, extra-high base moldings. Bits can be used to rout base cap only, or to profile the edge of wide base molding.

### MATERIALS



Hardwood



Softwood

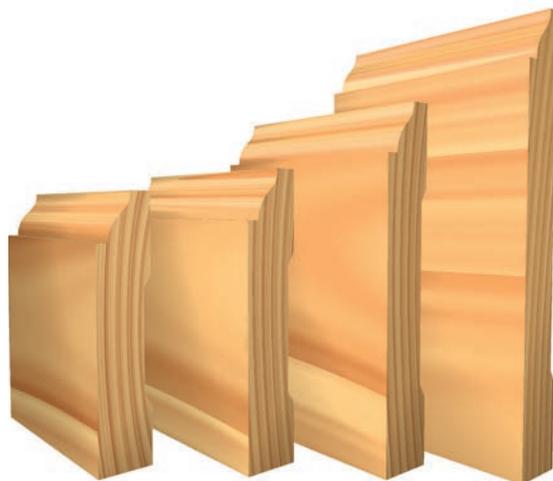
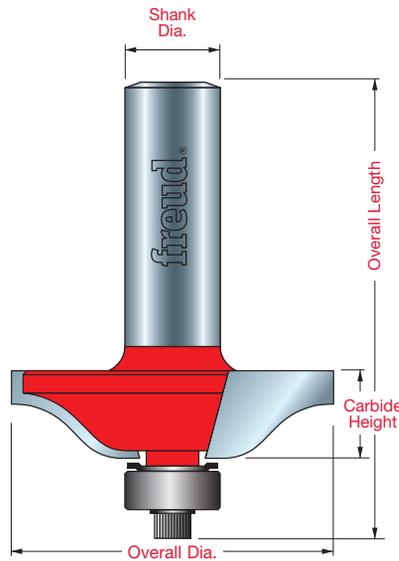


MDF



99-484

This area can be cut with a mortising bit or a dado saw blade



Creates Standard Base Cap Profile  
#618, #620, #622, #623 & #624

ROUTER BITS

# ARCHITECTURAL MILLWORK BITS

## Beadboard Bit System



### Architectural Molding Series

#### USE IN



Table Router    CNC

#### APPLICATION

Create beautiful wainscoting, paneling, back panels for bookcases, and much more. Mills traditional beadboard in a variety of thicknesses and widths. Includes two slot cutters to rout either 1/4" or 1/16" tongue & groove joints.

#### MATERIALS



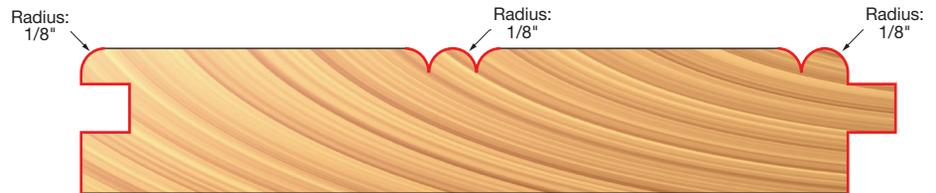
Hardwood    Softwood  
MDF

ROUTER BITS

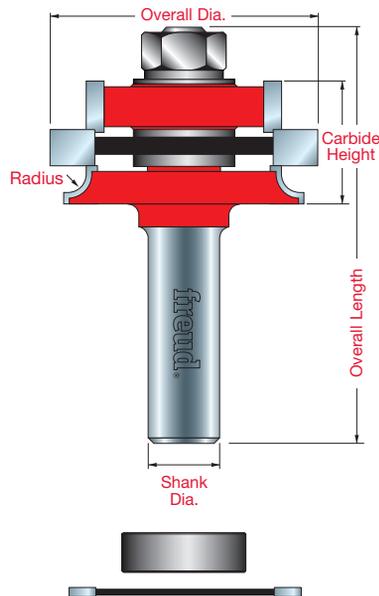
ITEM NUMBER	PROFILE DESIGN	OVERALL DIA.	CARBIDE HEIGHT	RADIUS	SHANK DIA.	OVERALL LENGTH
20-301*	Radius V Groove Bit	1/4"	3/16"	1/8"	1/4"	1-3/4"
99-472	Beadboard Tongue & Groove Bit	1-7/8"	13/16"	1/8"	1/2"	2-7/8"



20-301



20-301 & 99-472



99-472



# Beadboard Bit System

# ARCHITECTURAL MILLWORK BITS

CONTINUED



## Architectural Molding Series

### USE IN



Table Router



CNC

### APPLICATION

Create beautiful wainscoting, paneling, back panels for bookcases, and much more. Mills traditional beadboard in a variety of thicknesses and widths. Includes two slot cutters to rout either 1/4" or 1/16" tongue & groove joints.

### MATERIALS



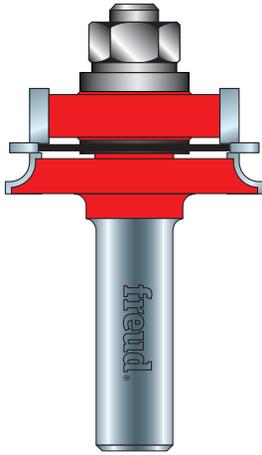
Hardwood



Softwood

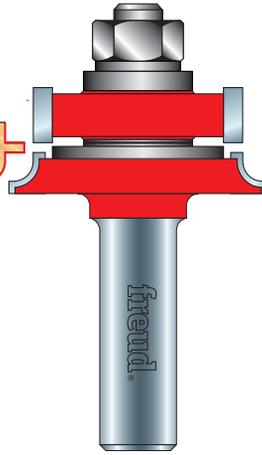
ROUTER BITS

Groove Cut Configuration

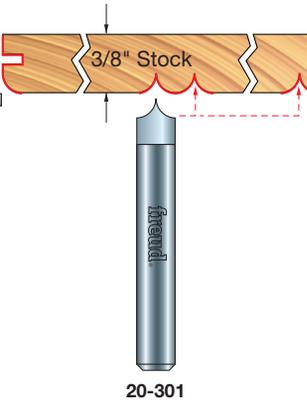


99-472

Tongue Cut Configuration

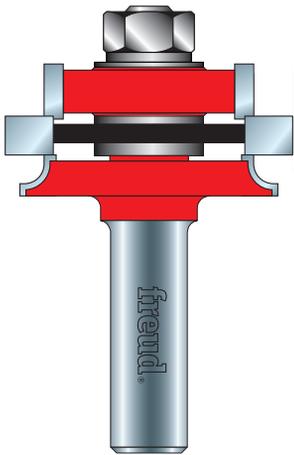


99-472



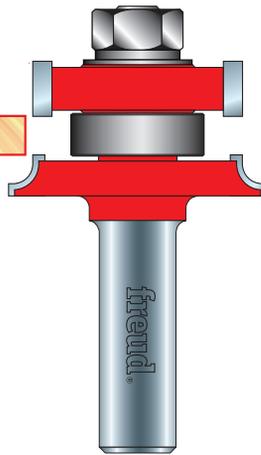
20-301

Groove Cut Configuration

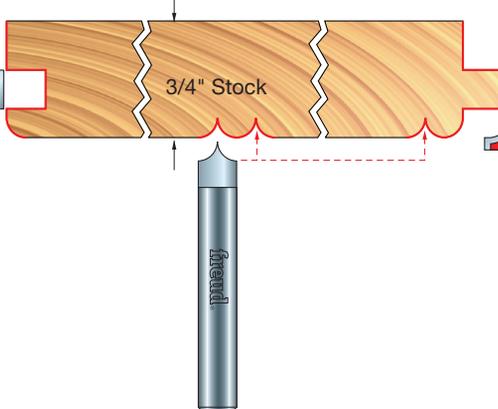


99-472

Tongue Cut Configuration



99-472



20-301

# ARCHITECTURAL MILLWORK BITS

## Table Edge & Handrail Bits

### USE IN



Table Router    CNC



ITEM NUMBER	OVERALL DIA.	BEARING DIA.	CARBIDE HEIGHT	LARGE RADIUS	SMALL RADIUS	SHANK DIA.	OVERALL LENGTH
99-027	2-19/32"	1/2"	23/32"	1-25/32"	13/64"	1/2"	2-5/8"
99-450	2-1/2"	1/2"	25/32"	3/8"	15/64"	1/2"	2-3/4"
99-452	2-5/8"	1/2"	25/32"	1-3/32"	11/64"	1/2"	2-3/4"

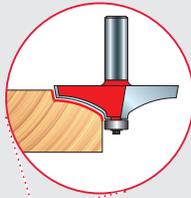
### APPLICATION

Attractive edging of tables, plaques and staircase handrails. Combine with another rail profile to create a custom railing design.

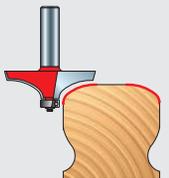
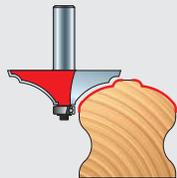
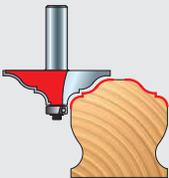
### MATERIALS



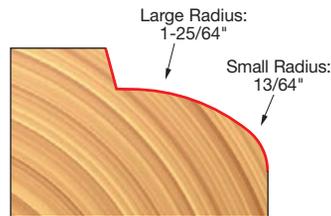
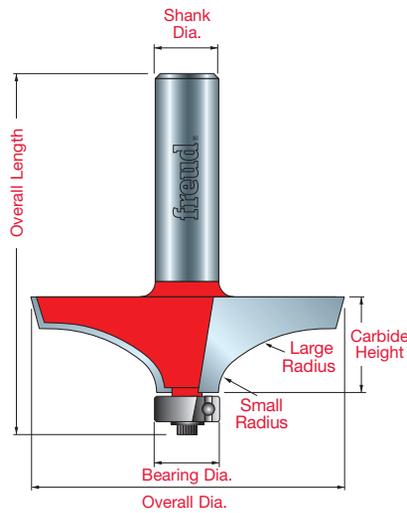
ROUTER BITS



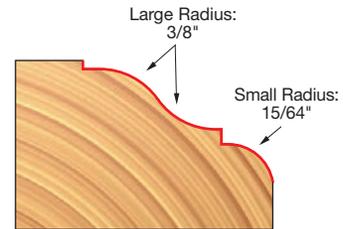
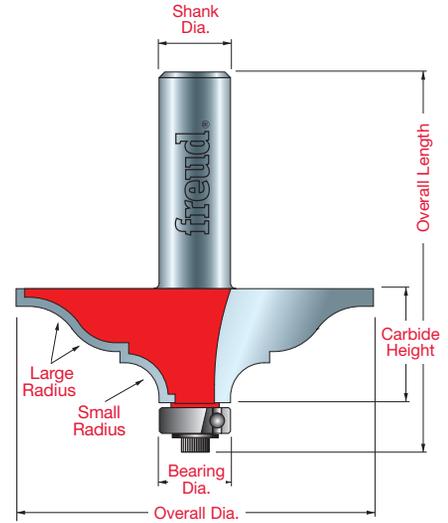
Example of table edge profile



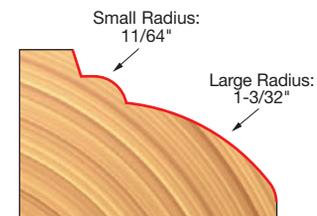
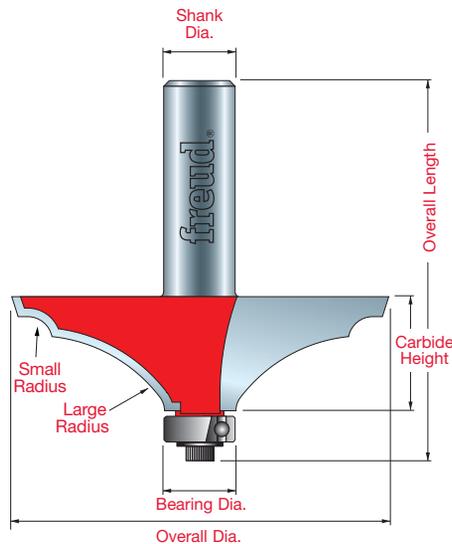
Examples of various handrail profiles



99-027



99-450



99-452

# Handrail Bits

# ARCHITECTURAL MILLWORK BITS

ITEM NUMBER	OVERALL DIA.	BEARING DIA.	CARBIDE HEIGHT	LARGE RADIUS	SMALL RADIUS	SHANK DIA.	OVERALL LENGTH
99-442	1-3/16"	5/8"	1-1/2"	1"	3/8"	1/2"	3-1/2"
99-444	1-3/16"	5/8"	1-1/2"	1/2"	3/8"	1/2"	3-1/2"
99-446	1-3/8"	1/2"	1-1/2"	1/8"	-	1/2"	3-1/4"

## USE IN



Table Router

CNC

## APPLICATION

Creating custom banisters and handrails. Use these bits for the lower profile on a handrail; select Freud bit 99-450, 99-452 or 99-027 for the top profile.

## MATERIALS



Hardwood



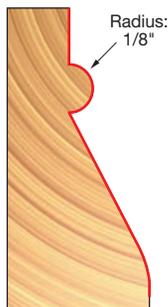
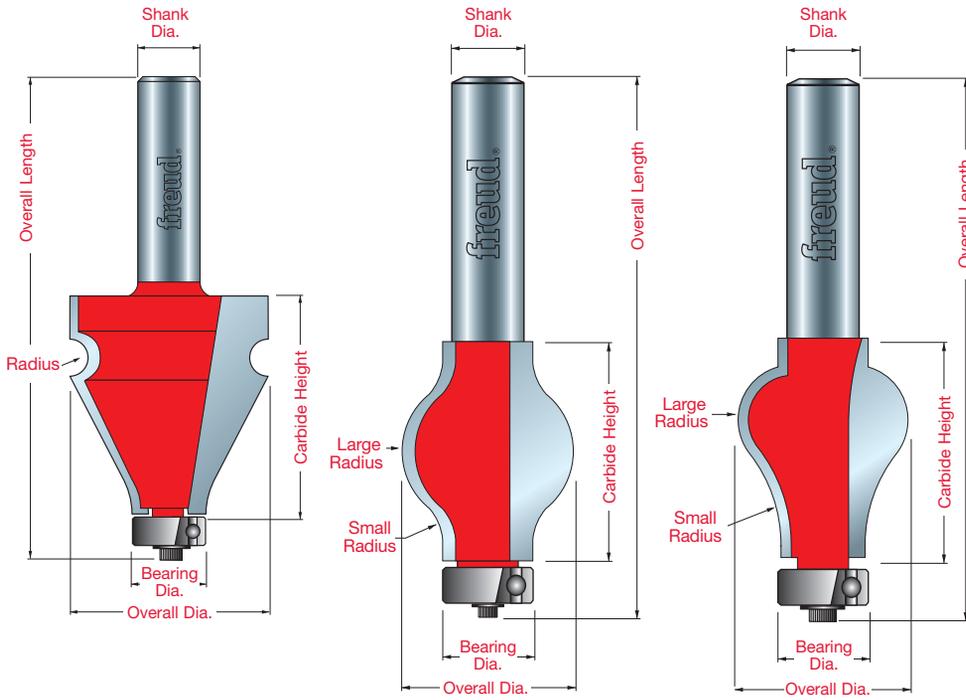
Softwood



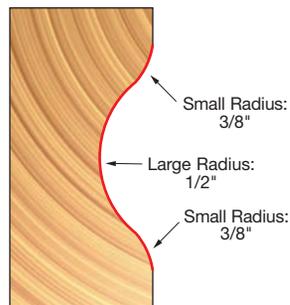
MDF



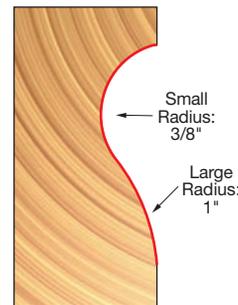
Plywood



99-446

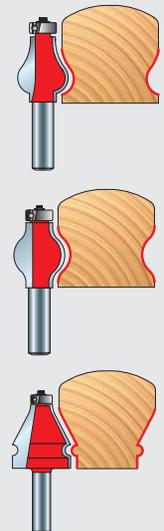


99-444



99-442

Examples of various handrail profiles



# ARCHITECTURAL MILLWORK BITS



## Face Molding Bits

### USE IN



### APPLICATION

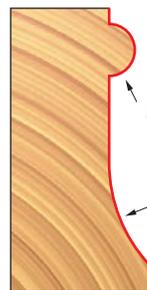
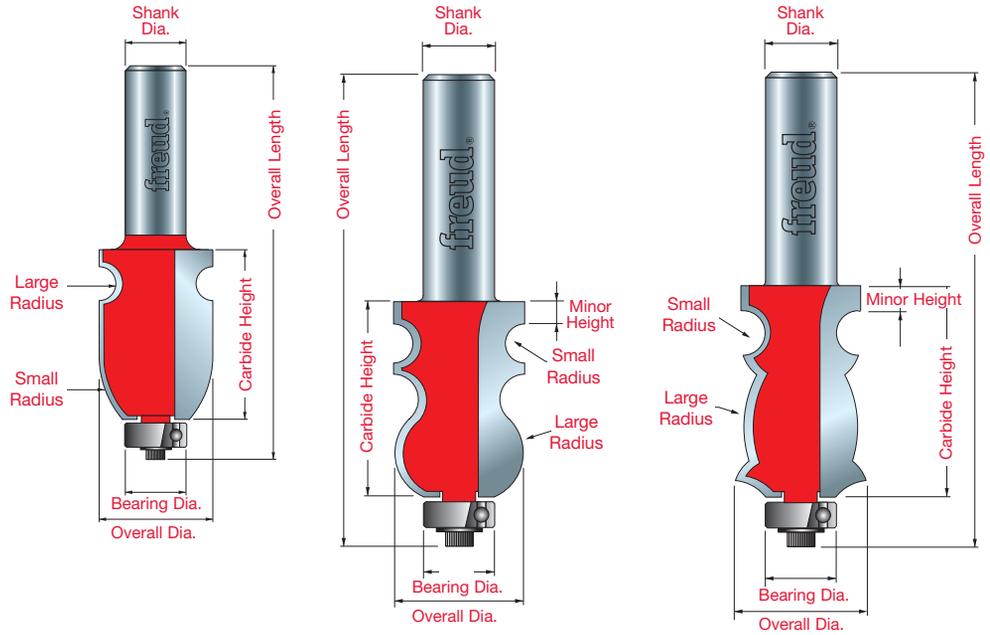
Door casings, trim, baseboards, and pilasters. Add architectural detail to your furniture, cabinets and millwork.

### MATERIALS

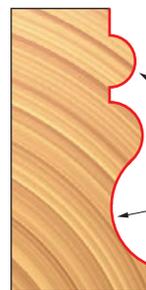


ROUTER BITS

ITEM NUMBER	OVERALL DIA.	BEARING DIA.	CARBIDE HEIGHT	MINOR HEIGHT	LARGE RADIUS	SMALL RADIUS	SHANK DIA.	OVERALL LENGTH
99-012	15/16"	1/2"	1-3/8"	3/32"	25/32"	9/64"	1/2"	3-1/4"
99-013	15/16"	1/2"	1-3/8"	5/32"	21/64"	9/64"	1/2"	3-1/4"
99-014	15/16"	1/2"	1-1/2"	11/64"	25/32"	5/32"	1/2"	3-3/8"
99-015	1-1/16"	1/2"	1-5/8"	5/64"	5/16"	1/8"	1/2"	3-1/2"
99-016	1"	1/2"	7/8"	1/8"	45/64"	1/8"	1/2"	2-3/4"



99-012



99-013

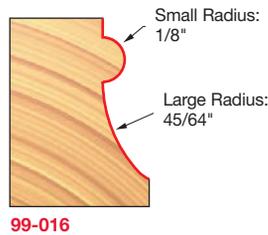
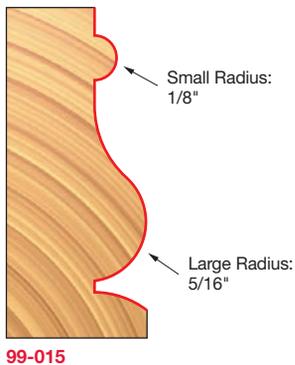
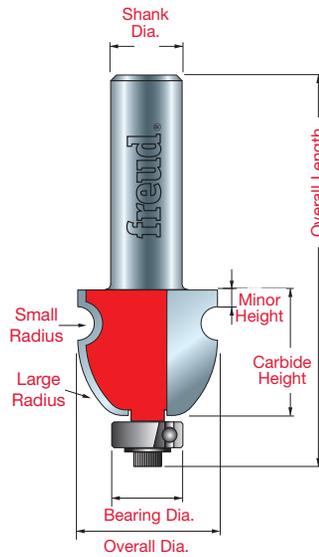
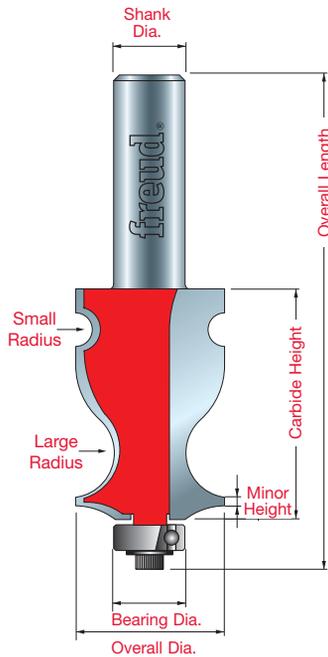


99-014

# Face Molding Bits

# ARCHITECTURAL MILLWORK BITS

CONTINUED



## USE IN



Table Router



CNC

## APPLICATION

Door casings, trim, baseboards, and pilasters. Add architectural detail to your furniture, cabinets and millwork.

## MATERIALS



Hardwood



Softwood



MDF



Plywood

ROUTER BITS

# ARCHITECTURAL MILLWORK BITS

## Reversible Wainscoting Bit

### USE IN



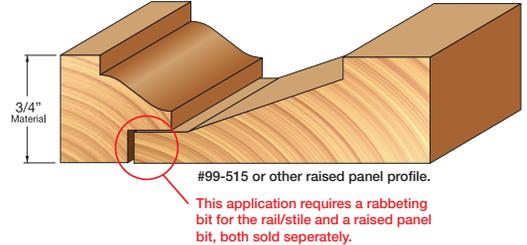
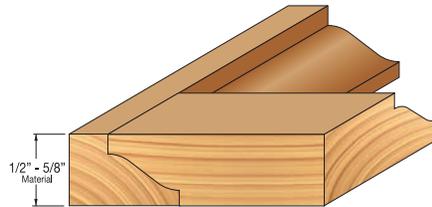
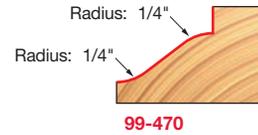
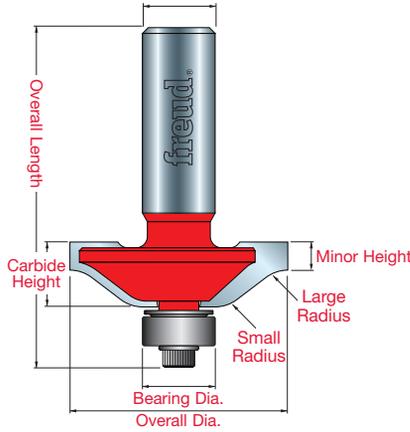
### APPLICATION

For milling matching joints in wainscoting. Works with stock from 1/2" to 5/8" thick, and mills matching frame joints with remarkable ease and precision. Bit height is set one time for male and female joints without requiring fence or height adjustments. Just rout stiles face down and rails face up for a perfect fit. Versatile design—after routing the matching profiles, if using panels, rout a rabbet on the back to accept the tongue of a raised panel in 3/4" stock.

### MATERIALS



ITEM NUMBER	OVERALL DIA.	BEARING DIA.	CARBIDE HEIGHT	MINOR HEIGHT	LARGE RADIUS	SMALL RADIUS	SHANK DIA.	OVERALL LENGTH
99-470	1-1/2"	1/2"	7/16"	1/4"	3/16"	1/2"	2-1/4"	3-1/4"



# Wide Crown Molding System

# ARCHITECTURAL MILLWORK BITS

ITEM NUMBER	PROFILE NUMBER	OVERALL DIA.	CARBIDE HEIGHT	SHANK DIA.	OVERALL LENGTH
<b>Upper Profiles</b>					
99-414	Upper 1	1-5/16"	3"	1/2"	4-7/16"
99-416	Upper 3	1-13/32"	3"	1/2"	4-7/16"
99-418	Upper 5	1-1/4"	3"	1/2"	4-7/16"
<b>Lower Profiles</b>					
99-415	Lower 2	1-3/8"	3-1/16"	1/2"	4-9/16"
99-417	Lower 4	1-3/8"	3-1/16"	1/2"	4-9/16"
99-419	Lower 6	1-3/8"	3-1/16"	1/2"	4-9/16"
<b>Molding Bevel Cutter</b>					
99-421	-	2-3/8"	1-3/8"	1/2"	2-13/16"

## USE IN



Table Router



CNC

## APPLICATION

Milling 5-1/2" wide Crown Molding for ceilings. Mix and match bits for upper and lower profiles to produce nine different designs. Use only in a router table with minimum 6" high fence, mill in 3 or more passes. Use featherboards and hold downs to hold stock down & against the fence. Use pusher blocks or a push stick to feed stock. Make test cuts in scrap stock first.

## MATERIALS

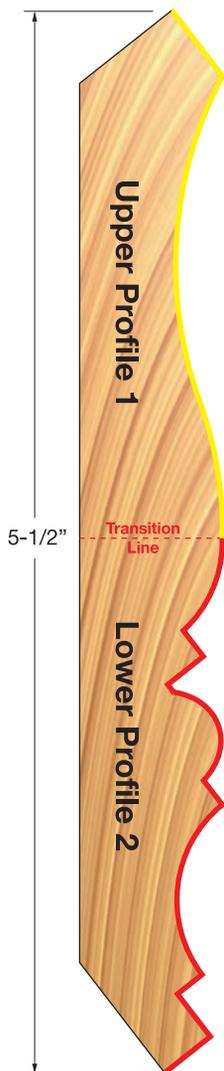


Hardwood

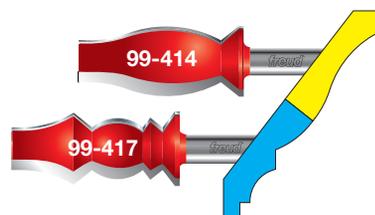


Softwood

ROUTER BITS

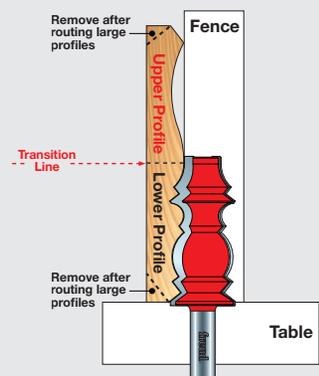
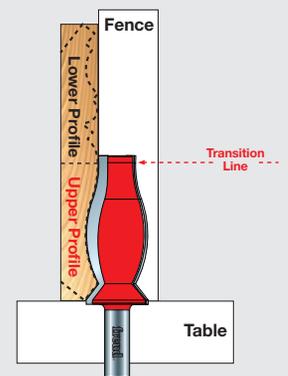


**Freud's Wide Crown Molding 2 Piece Bit Set** allows you to create the most popular crown molding profiles!



98-507 2 piece set

Example of Crown Molding profile made with Upper Profile bit #1 & Lower Profile Bit #2. By combining the Upper and Lower Profile bits, 9 different profile combinations can be achieved.



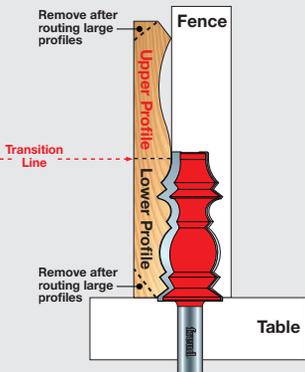
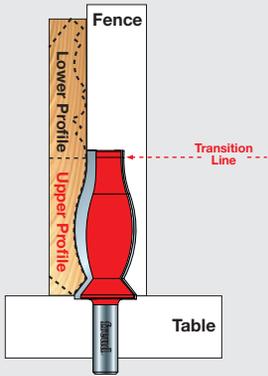
### USE IN



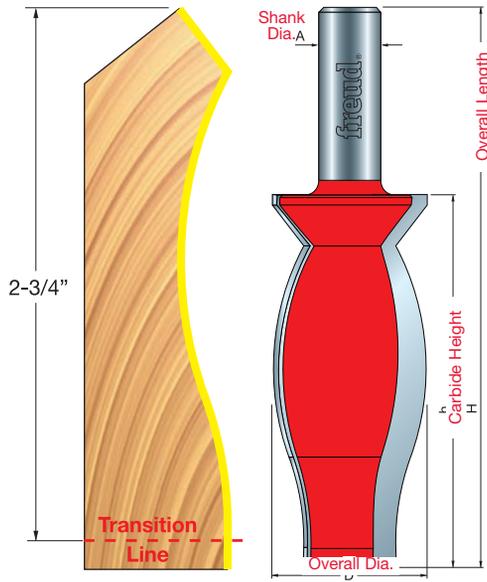
### APPLICATION

Milling 5-1/2" wide Crown Molding for ceilings. Mix and match bits for upper and lower profiles to produce nine different designs. Use only in a router table with minimum 6" high fence, mill in 3 or more passes. Use featherboards and hold downs to hold stock down & against the fence. Use pusher blocks or a push stick to feed stock. Make test cuts in scrap stock first.

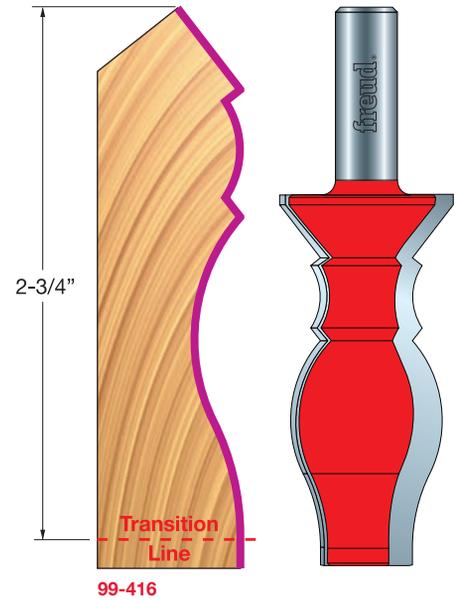
### MATERIALS



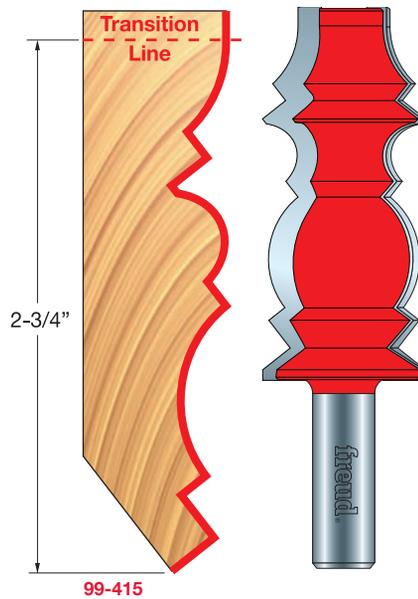
### UPPER PROFILE 1



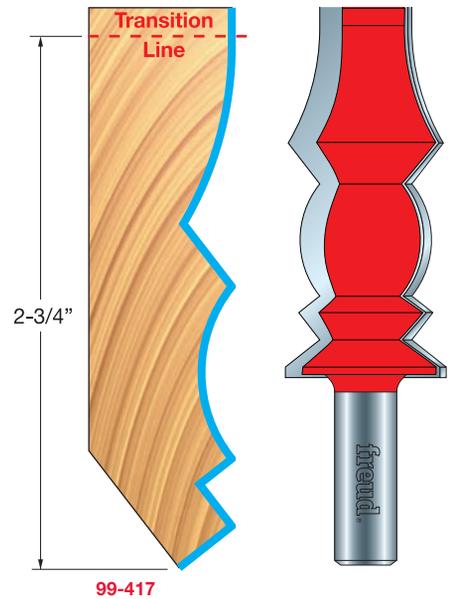
### UPPER PROFILE 3



### LOWER PROFILE 2



### LOWER PROFILE 4

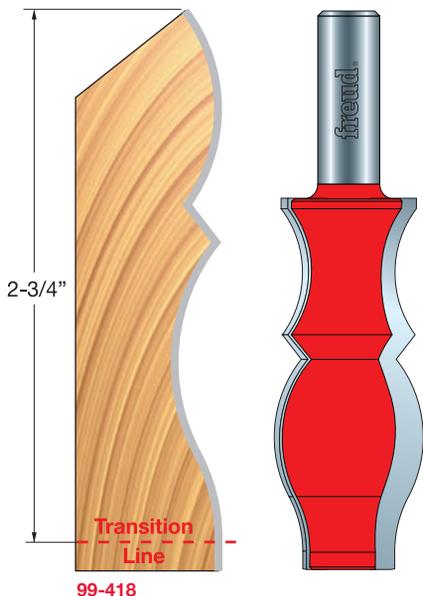


# Wide Crown Molding System

# ARCHITECTURAL MILLWORK BITS

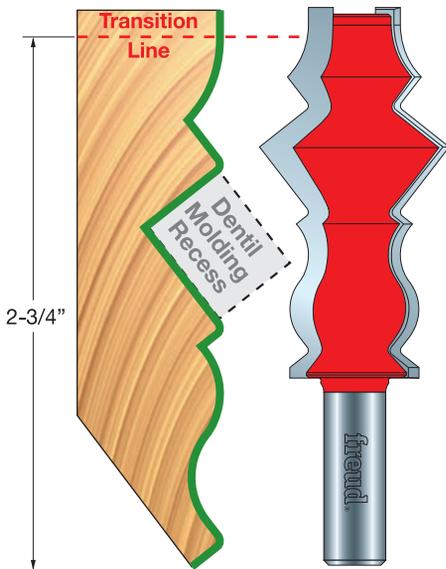
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## UPPER PROFILE 5



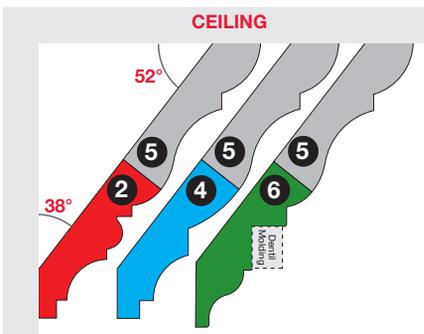
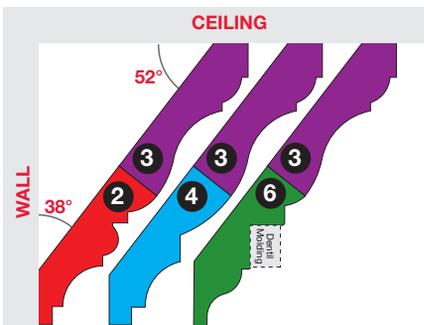
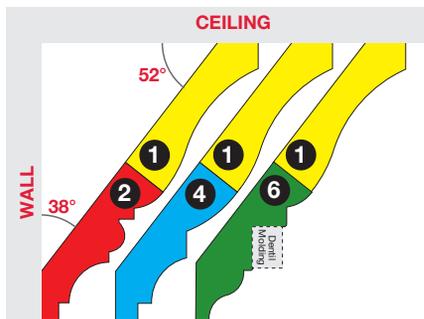
99-418

## LOWER PROFILE 6

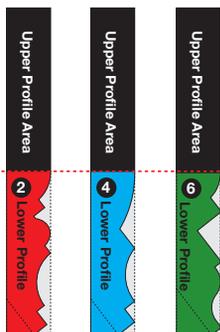
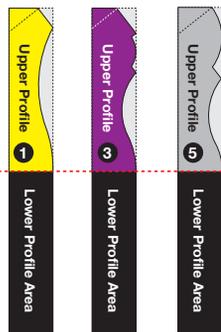


99-419

A total of 9 different combinations can be created with the Wide Crown Molding System



Upper profile bits 1, 3, & 5 mill these areas of 3/4" x 5-1/2" stock



Lower profile bits 2, 4, & 6 mill these areas of 3/4" x 5-1/2" stock

## USE IN



Table Router



CNC

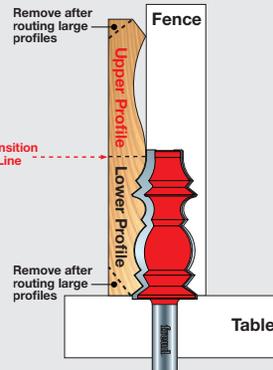
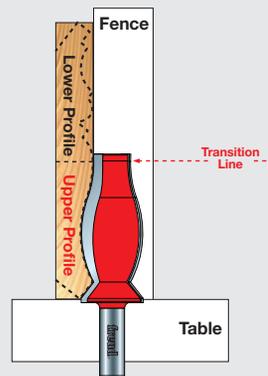
## APPLICATION

Milling 5-1/2" wide Crown Molding for ceilings. Mix and match bits for upper and lower profiles to produce nine different designs. Use only in a router table with minimum 6" high fence, mill in 3 or more passes. Use featherboards and hold downs to hold stock down & against the fence. Use pusher blocks or a push stick to feed stock. Make test cuts in scrap stock first.

## MATERIALS



Hardwood Softwood



\* Solid Carbide

Red Item Numbers Indicate 1/2" Shank

All Profile Drawings 1:1 Scale

ROUTER BITS

# ARCHITECTURAL MILLWORK BITS



## Wide Crown Molding System

CONTINUED

### USE IN

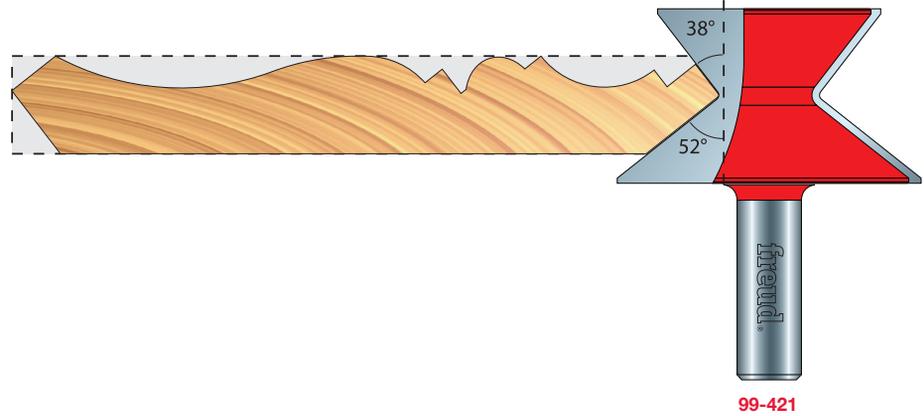
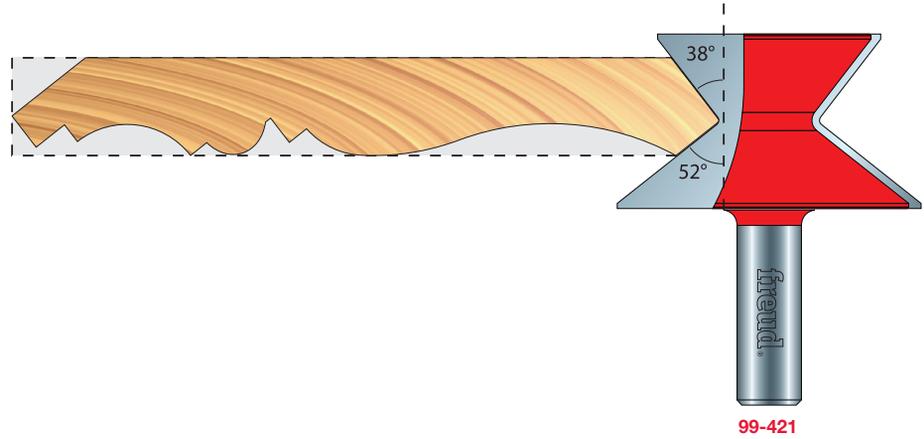
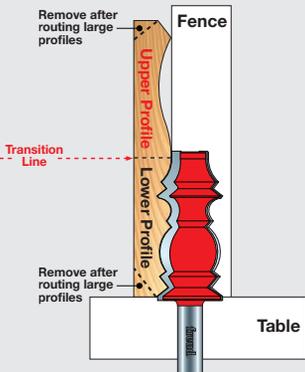
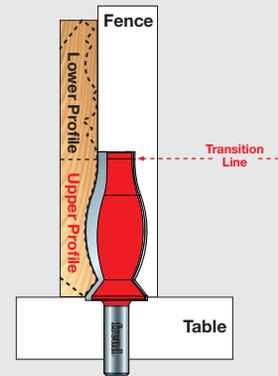


Table Router    CNC

### APPLICATION

Milling 5-1/2" wide Crown Molding for ceilings. Mix and match bits for upper and lower profiles to produce nine different designs. Use only in a router table with minimum 6" high fence, mill in 3 or more passes. Use featherboards and hold downs to hold stock down & against the fence. Use pusher blocks or a push stick to feed stock. Make test cuts in scrap stock first.

### MATERIALS



# Crown Molding Bit

# ARCHITECTURAL MILLWORK BITS

ITEM NUMBER	OVERALL DIA.	CARBIDE HEIGHT	LARGE RADIUS	SMALL RADIUS	ANGLE	SHANK DIA.	OVERALL LENGTH
99-402	1-1/4"	2-1/4"	17/32"	7/32"	45°	1/2"	3-3/4"
99-404	1-1/4"	2-1/4"	43/64"	15/32"	45°	1/2"	3-3/4"
99-406	1-1/4"	2-1/4"	25/64"	-	45°	1/2"	3-3/4"
99-408	1-1/4"	2-1/4"	1-1/4"	-	45°	1/2"	3-3/4"
99-410	1-1/4"	2-1/4"	3/16"	1/8"	10°	1/2"	3-3/4"

## USE IN



Table Router



CNC

## APPLICATION

Elaborate crown moldings. Customize your decorative crown moldings to add elegance to any room. Simply adjust the height of your cut to change the entire profile.

## MATERIALS

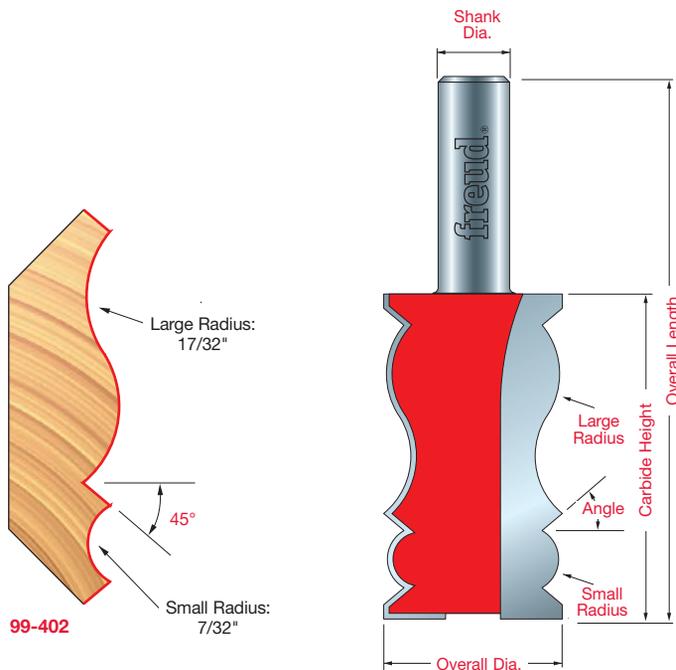


Hardwood

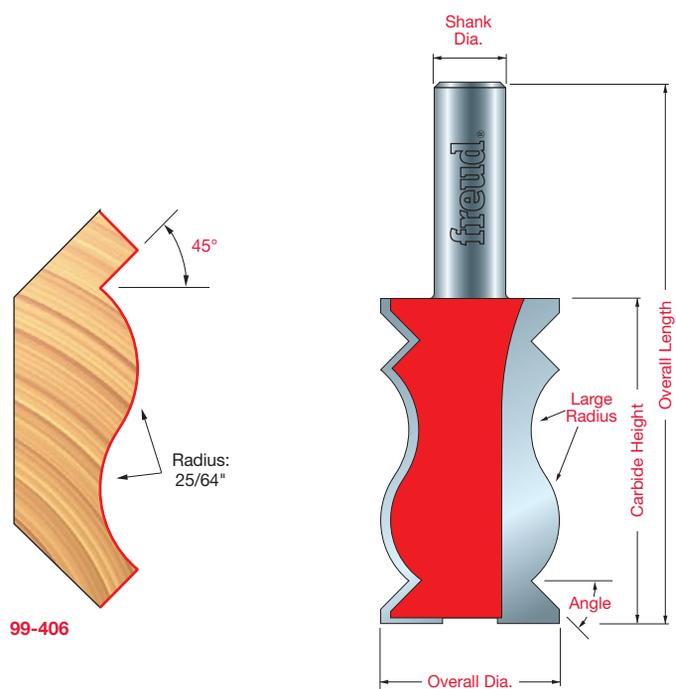


Softwood

ROUTER BITS



99-402



99-406



## Crown Molding Bit

CONTINUED

### USE IN



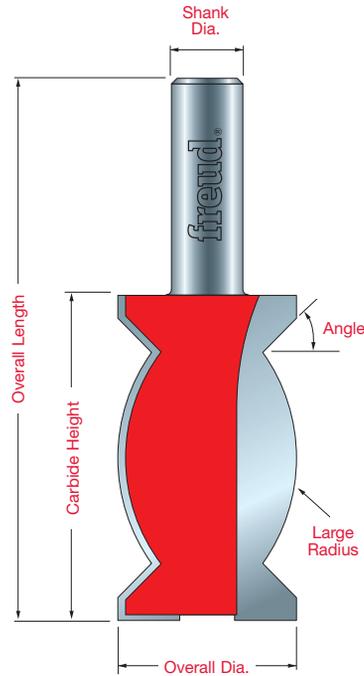
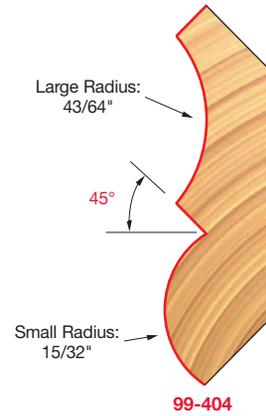
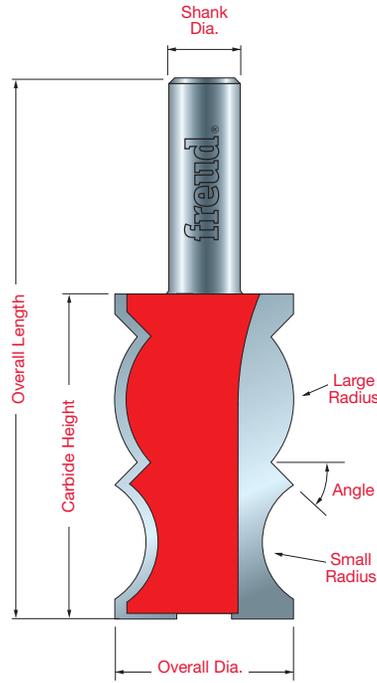
### APPLICATION

Elaborate crown moldings. Customize your decorative crown moldings to add elegance to any room. Simply adjust the height of your cut to change the entire profile.

### MATERIALS



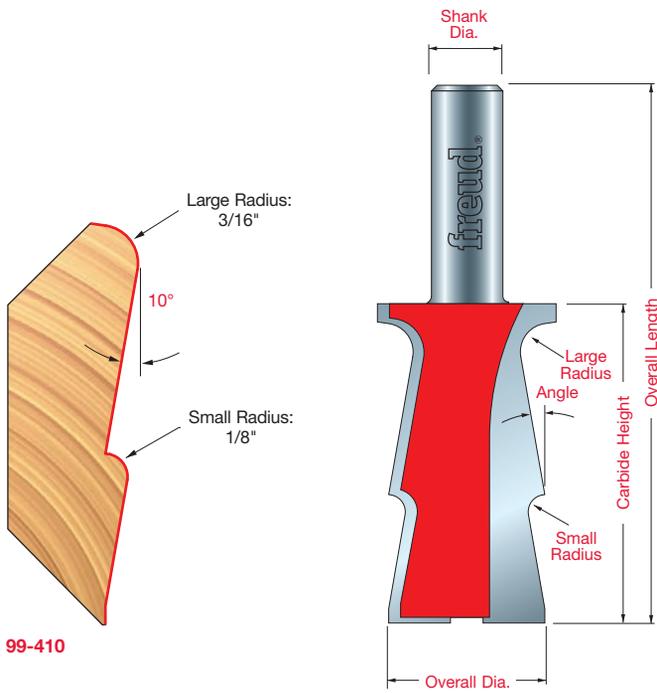
ROUTER BITS



# Crown Molding Bit

# ARCHITECTURAL MILLWORK BITS

CONTINUED



## USE IN



Table Router



CNC

## APPLICATION

Elaborate crown moldings. Customize your decorative crown moldings to add elegance to any room. Simply adjust the height of your cut to change the entire profile.

## MATERIALS



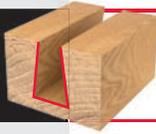
Hardwood



Softwood

ROUTER BITS

# JOINERY BITS



## Dovetail Bits

### USE IN



Table Router



Hand Router

CNC

### APPLICATION

Strong, attractive joints for drawers and boxes. Compatible with popular dovetail jigs, these bits produce smooth, intricate dovetail joints.

### MATERIALS

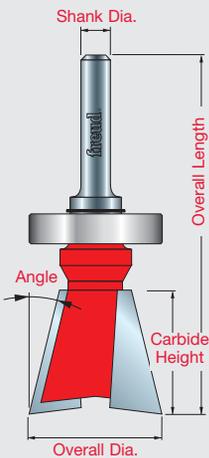
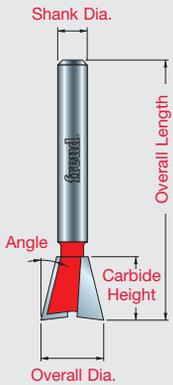


Hardwood

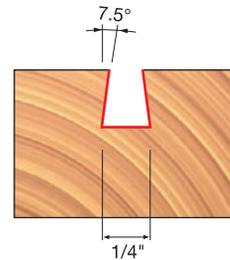
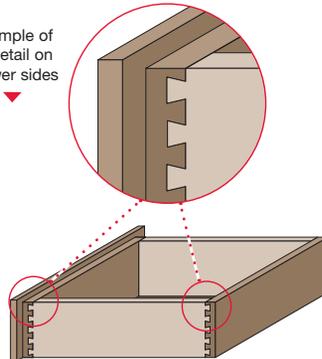
Softwood

MDF

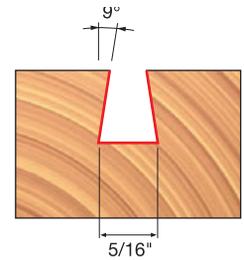
Plywood



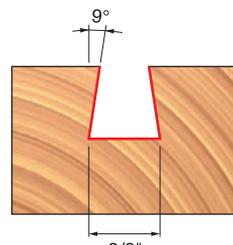
Example of Dovetail on drawer sides



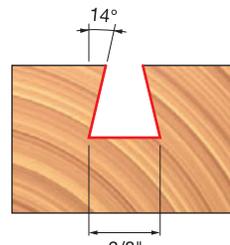
22-100 / 22-107



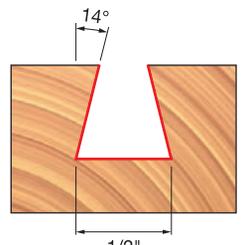
22-101 / 22-108



22-102 / 22-110



22-103



22-104 / 22-124 / 22-112

ITEM NUMBER	OVERALL DIA.	CARBIDE HEIGHT	ANGLE	SHANK DIA.	OVERALL LENGTH
22-100	1/4"	5/16"	7-1/2°	1/4"	2"
22-101	5/16"	3/8"	9°	1/4"	1-7/8"
22-102	3/8"	3/8"	9°	1/4"	1-7/8"
22-103	3/8"	3/8"	14°	1/4"	2-1/2"
22-104	1/2"	1/2"	14°	1/4"	1-7/8"
22-105	5/8"	7/8"	7°	1/4"	2-1/8"
22-106	3/4"	7/8"	7°	1/4"	2-1/8"
22-119	1/4"	1/4"	8°	1/4"	2"
22-120	3/8"	1/2"	8°	1/4"	2-1/2"
22-121	7/16"	5/8"	8°	1/4"	2-3/8"
22-122	1/2"	13/16"	8°	1/4"	2-3/4"
22-123	5/16"	3/8"	8°	1/4"	1-7/8"
22-124	1/2"	1/2"	14°	1/4"	2-5/8"
22-125	1/2"	5/8"	10°	1/4"	2-3/8"
22-126	9/16"	3/8"	14°	1/4"	2"
22-128	3/4"	7/8"	14°	1/4"	2-3/8"
22-129	1/2"	13/32"	8°	1/4"	2-5/32"
22-107	1/4"	5/16"	7-1/2°	1/2"	2-5/8"
22-108	5/16"	3/8"	9°	1/2"	2-1/8"
22-110	3/8"	3/8"	9°	1/2"	2-1/4"
22-112	1/2"	1/2"	14°	1/2"	2-1/4"
22-113	5/8"	7/8"	7°	1/2"	2-5/8"
22-114	3/4"	7/8"	7°	1/2"	2-5/8"
22-115*	17/32"	25/32"	7°	1/2"	2-3/8"
22-130	11/16"	1"	8°	1/2"	3-1/8"
22-132	13/16"	1-1/4"	8°	1/2"	3-3/8"
22-134	3/4"	3/4"	14°	1/2"	3-1/8"

### Top Bearing Dovetail

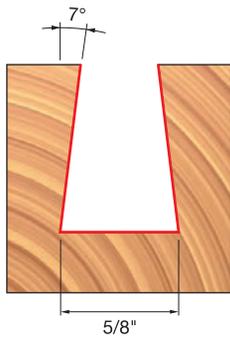
22-505	5/8"	7/8"	7°	1/4"	2-5/8"
22-507	3/4"	7/8"	14°	1/4"	2-5/8"
22-508	9/16"	3/8"	14°	1/4"	2-3/16"

# Dovetail Bits

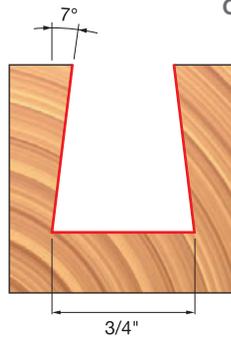


# JOINERY BITS

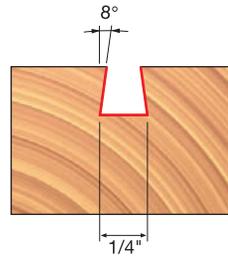
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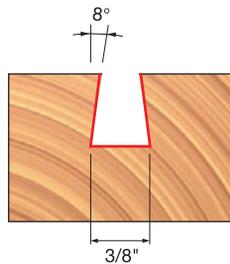
22-105 / 22-113



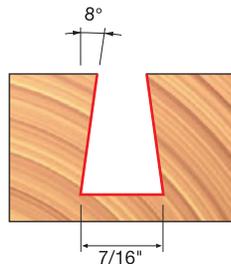
22-106 / 22-114



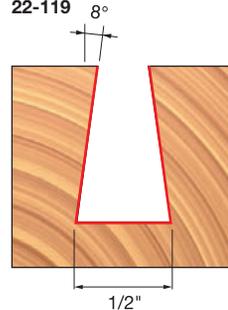
22-119



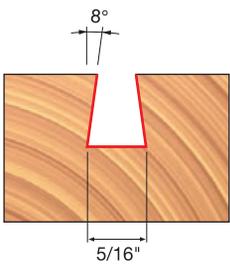
22-120



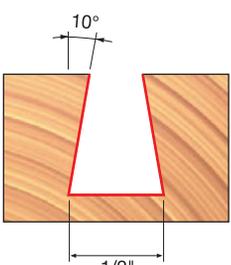
22-121



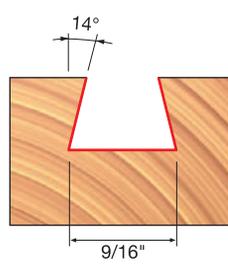
22-122



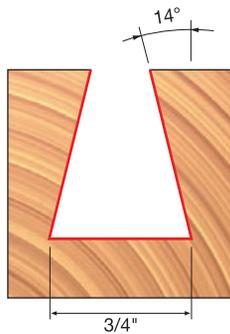
22-123



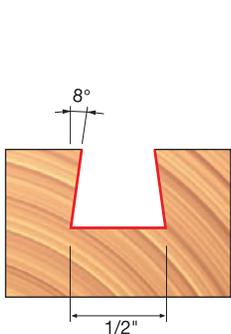
22-125



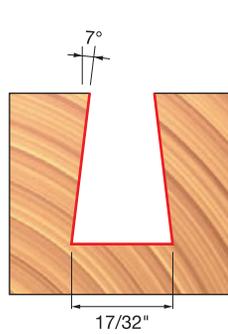
22-126



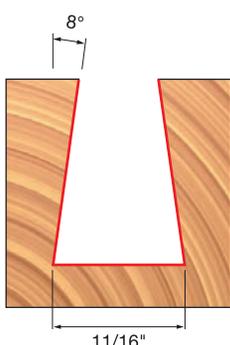
22-128



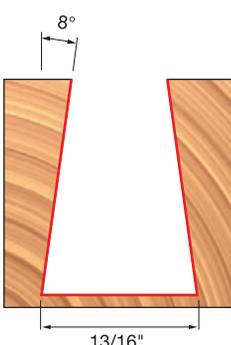
22-129



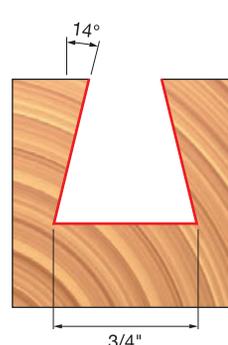
22-115



22-130



22-132



22-134

## USE IN



Table Router

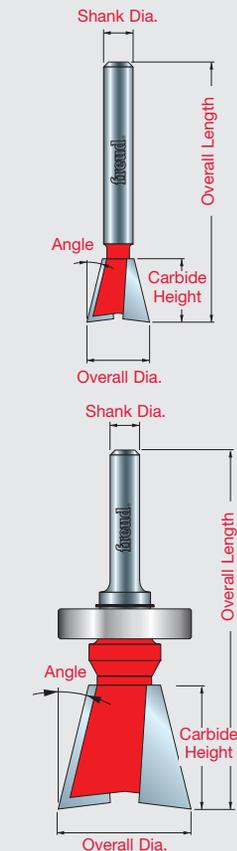
Hand Router

CNC

## APPLICATION

Strong, attractive joints for drawers and boxes. Compatible with popular dovetail jigs, these bits produce smooth, intricate dovetail joints.

## MATERIALS



\* Solid Carbide

Red Item Numbers Indicate 1/2" Shank

All Profile Drawings 1:1 Scale

# JOINERY BITS



## Dovetail Bits

CONTINUED

### USE IN



Table Router



Hand Router

CNC

### APPLICATION

Strong, attractive joints for drawers and boxes. Compatible with popular dovetail jigs, these bits produce smooth, intricate dovetail joints.

### MATERIALS



Hardwood

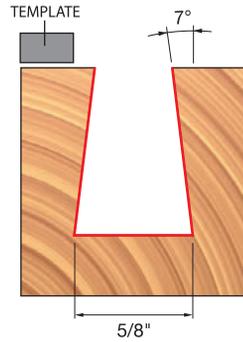
Softwood

MDF

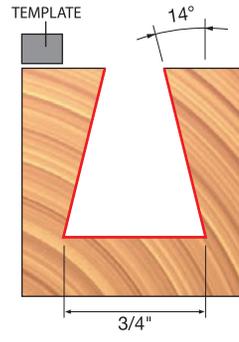
Plywood

ROUTER BITS

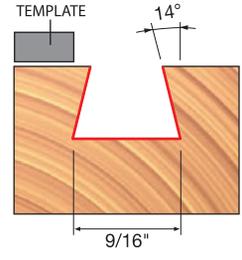
### Top Bearing Dovetail



22-505



22-507



22-508

# JOINERY BITS



## Butterfly Spline Bit

### USE IN



Table Router



Hand Router

CNC

### APPLICATION

Sturdy, decorative design for exposed joints. This bit produces a strong, attractive method of joining wood. Use a 14-degree dovetail bit to produce the mating grooves.

### MATERIALS



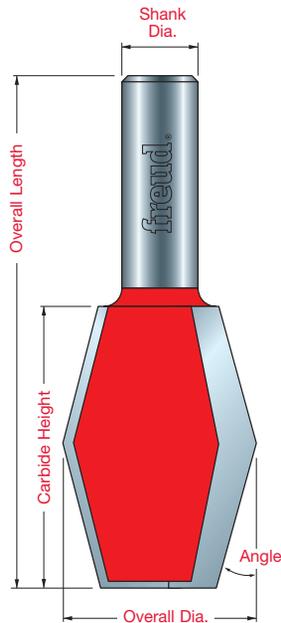
Hardwood

Softwood

MDF

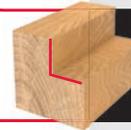
Plywood

ITEM NUMBER	OVERALL DIA.	SMALL DIA.	CARBIDE HEIGHT	ANGLE	SHANK DIA.	OVERALL LENGTH
24-106	1-1/8"	11/16"	1-3/4"	14°	1/2"	3-1/4"



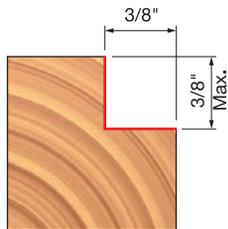
24-106

# Rabbeting Bits

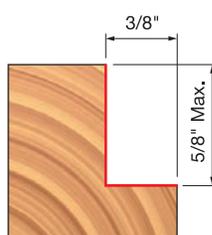


# JOINERY BITS

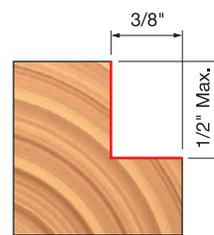
ITEM NUMBER	OVERALL DIA.	BEARING DIA.	CUT DEPTH	CARBIDE HEIGHT	SHANK DIA.	OVERALL LENGTH
32-096	1-1/4"	1/2"	3/8"	3/8"	1/4"	2"
32-098	1-1/4"	1/2"	3/8"	5/8"	1/4"	2-1/4"
32-100	1-1/4"	1/2"	3/8"	1/2"	1/4"	2"
32-101	1-3/8"	3/8"	1/2"	1/2"	1/4"	2-1/4"
32-102	1-1/4"	1/2"	3/8"	1/2"	1/2"	2-1/4"
32-106	1-3/8"	3/8"	1/2"	1/2"	1/2"	2-1/4"
32-110	1-3/8"	3/8"	1/2"	3/4"	1/2"	2"
Steel Pilots						
32-302	1-1/4"	1/2"	3/8"	3/8"	1/4"	1-7/8"
32-306	1-1/4"	1/2"	3/8"	5/8"	1/4"	2"



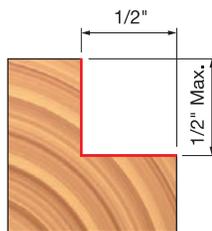
32-096 / 32-302



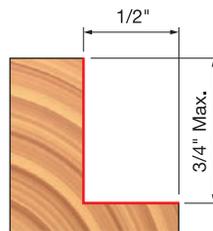
32-098 / 32-306



32-100 / 32-102



32-101 / 32-106



32-110

## USE IN



Table Router Hand Router

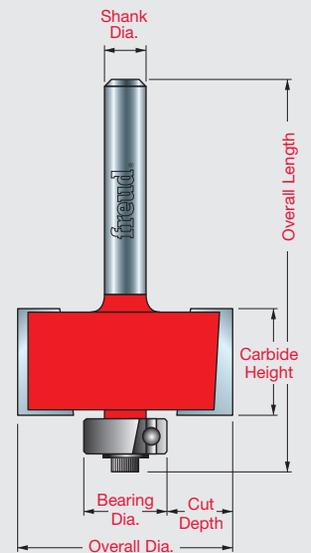
## APPLICATION

Joining boards and letting in back panels. Produces super smooth cuts on both surfaces of the rabbet. Steel pilots can be removed from bits and used with edge guides for wider rabbets.

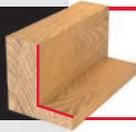
## MATERIALS



MDF Plywood



# JOINERY BITS



## Rabbeting Bits with Bearing Set

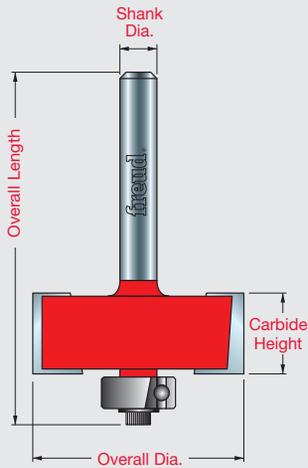
### USE IN



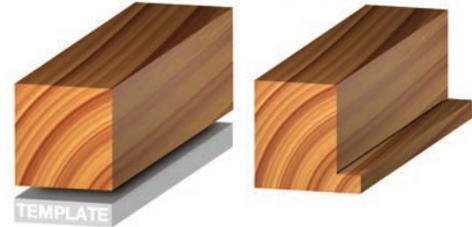
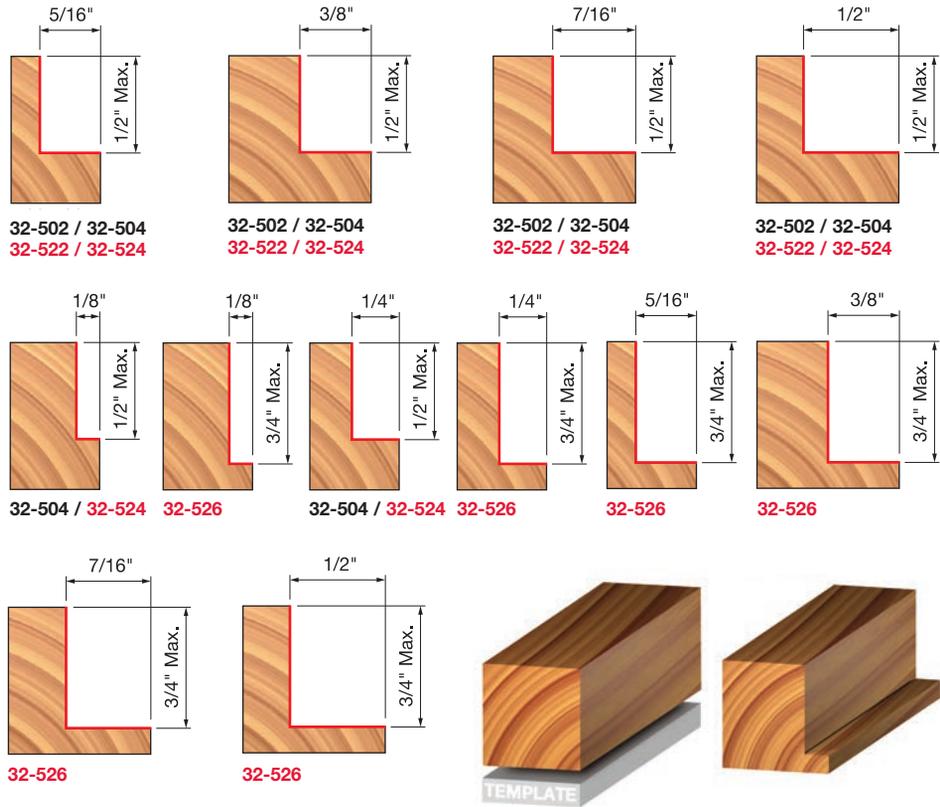
### APPLICATION

Joining boards and letting in back panels with different depths of cut. With interchangeable bearings to cut rabbets of different depths, these sets produce super smooth cuts on both surfaces of the rabbet. 32-504, 32-524, and 32-526 can also be used as flush cutting trim bits. Wrench included.

### MATERIALS

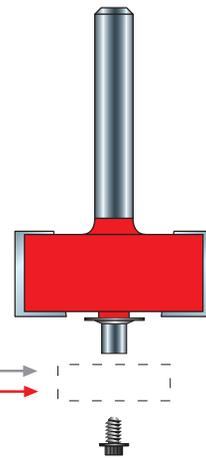


ITEM NUMBER	OVERALL DIA.	RABBETING DEPTHS	CARBIDE HEIGHT	SHANK DIA.	OVERALL LENGTH
32-502	1-3/8"	5/16", 3/8", 7/16", 1/2"	1/2"	1/4"	2-1/4"
32-504	1-3/8"	flush, 1/8", 1/4", 5/16", 3/8", 7/16", 1/2"	1/2"	1/4"	2-1/4"
32-522	1-3/8"	5/16", 3/8", 7/16", 1/2"	1/2"	1/2"	2-1/4"
32-524	1-3/8"	flush, 1/8", 1/4", 5/16", 3/8", 7/16", 1/2"	1/2"	1/2"	2-1/4"
32-526	1-3/8"	flush, 1/8", 1/4", 5/16", 3/8", 7/16", 1/2"	3/4"	1/2"	2-1/2"



### Both Sets Include the Wrench and Step Washers

- 3/8" Bearing #62-102
  - 1/2" Bearing #62-104
  - 5/8" Bearing #62-113
  - 3/4" Bearing #62-144
  - 7/8" Bearing #62-146
  - 1-1/8" Bearing #62-148
  - 1-3/8" Bearing #62-150
- SET OF 4  
or  
SET OF 7



- Wrench #62-402
  - 1/2" STEP WASHER #62-313
  - 3/8" STEP WASHER #62-311
- Supplied 3/8" STEP WASHER to use when mounting 3/8" ball bearing only.

# Stacked Slotting Set



# JOINERY BITS

ITEM NUMBER	OVERALL DIA.	CARBIDE HEIGHT	SHANK DIA.	OVERALL LENGTH
61-102	2"	1/8" - 23/32"	1/2"	3-1/4"

### Replacement Bearing

ITEM NUMBER	BEARING DIA.	CUT DEPTH
62-120	1"	1/2"
62-121	1-1/4"	3/8"
62-122	1-1/2"	1/4"

### Replacement Cutters

ITEM NUMBER	OVERALL DIA.	CARBIDE HEIGHT
54-108	2"	1/8"

### USE IN



Table Router Hand Router

### APPLICATION

Producing grooves 1/8" to 23/32" wide. By changing the bearings this set will cut three different depths (1/4", 3/8", 1/2"). Set includes Freud's slotting cutter arbor 60-202, 3 bearings and 4 specially designed slotting cutters.

### MATERIALS



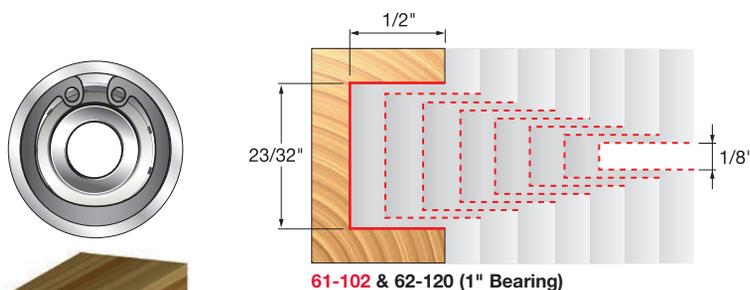
Hardwood

Softwood

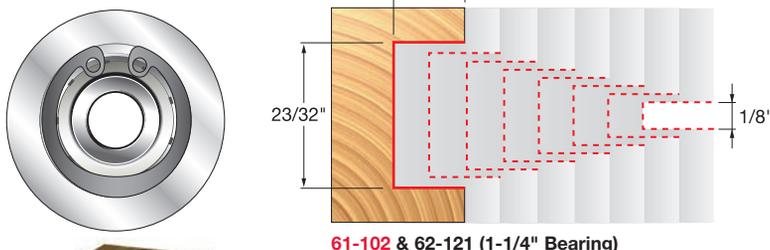
MDF

Plywood

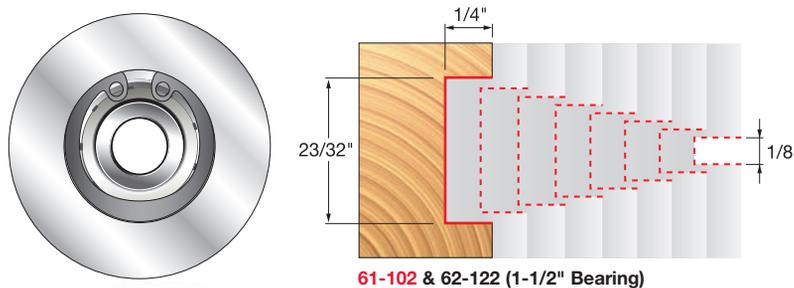
ROUTER BITS



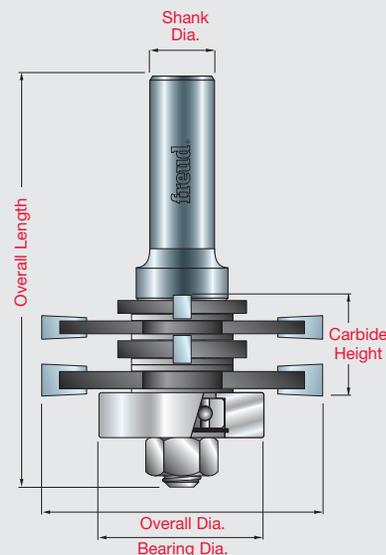
61-102 & 62-120 (1" Bearing)



61-102 & 62-121 (1-1/4" Bearing)



61-102 & 62-122 (1-1/2" Bearing)



\* Solid Carbide

Red Item Numbers Indicate 1/2" Shank

All Profile Drawings 1:1 Scale

# JOINERY BITS

## Biscuit Joining Set

### USE IN



Table Router Hand Router

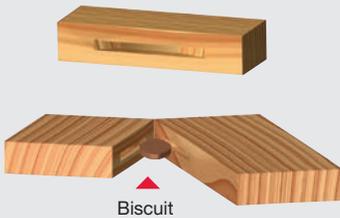
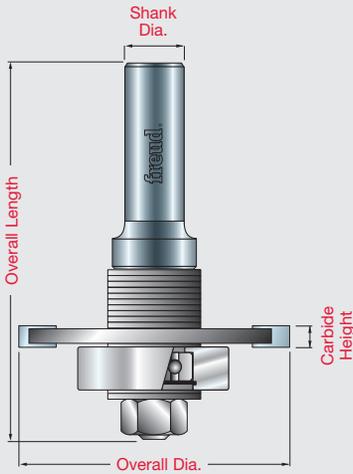
### APPLICATION

Creating perfect slots for biscuit joining. Easy and economical way to join wood.

### MATERIALS



ROUTER BITS



Drawing Is Not to Scale

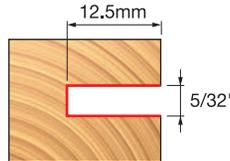
ITEM NUMBER	OVERALL DIA.	CARBIDE HEIGHT	SHANK DIA.	OVERALL LENGTH
99-041	1-27/32"	5/32"	1/2"	3-1/4"

### Replacement Bearing

ITEM NUMBER	OVERALL DIA.	CARBIDE HEIGHT	SHANK DIA.	OVERALL LENGTH
52-154	1-27/32"	5/32"	5/16"	-

### Bearings

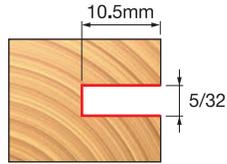
BEARING NUMBER	SIZE.	BEARING DIA.	CUT DEPTH
62-128	00	30mm	8.5mm
62-124	10	26mm	10.5mm
62-108	20	22mm	12.5mm



52-154 & 62-108 (22mm Bearing)



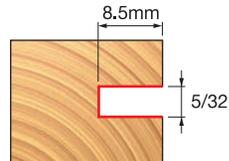
**Biscuit Size-20**  
59mm x 22mm  
2-3/8" x 7/8"



52-154 & 62-124 (26mm Bearing)



**Biscuit Size-10**  
54mm x 19mm  
2-1/8" x 3/4"



52-154 & 62-128 (30mm Bearing)



**Biscuit Size-00**  
47mm x 15mm  
1-7/8" x 5/8"

Examples of various joint configurations

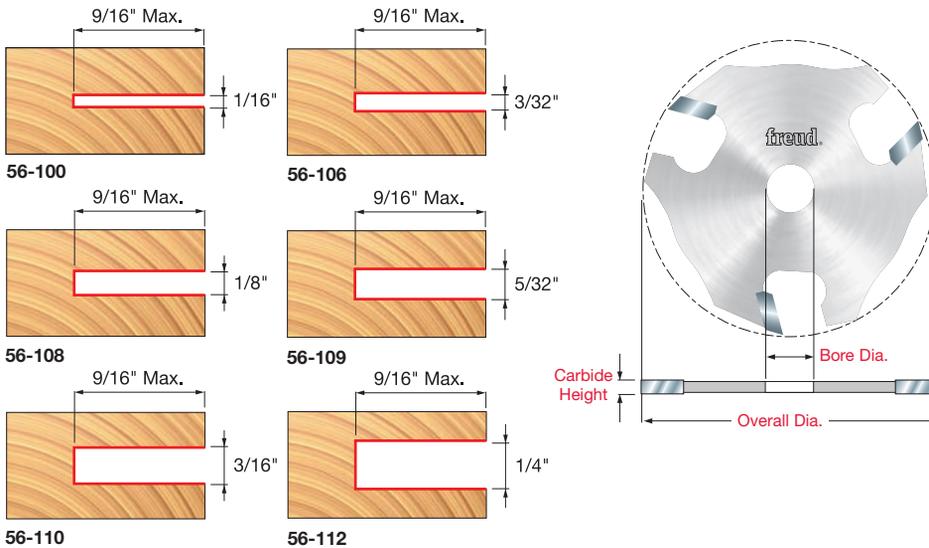


## Three Wing Slotting Cutters



## JOINERY BITS

ITEM NUMBER	OVERALL DIA.	NUMBER OF CUTTERS	BORE DIA.	CARBIDE HEIGHT
56-100	2"	3	5/16"	1/16"
56-106	2"	3	5/16"	3/32"
56-108	2"	3	5/16"	1/8"
56-109	2"	3	5/16"	5/32"
56-110	2"	3	5/16"	3/16"
56-112	2"	3	5/16"	1/4"



### USE IN



Table Router Hand Router

### APPLICATION

Producing slots and grooves for T-moldings, spline joints, tongue & groove joints and many other applications. Should be used with Freud's slotting cutter arbors 60-100 for 1/4" shanks and 60-102 for 1/2" shanks. Compatible with 62-108 bearing. Cutter 56-109 can be used for biscuit joining.

### MATERIALS



Hardwood

Softwood

MDF

Plywood

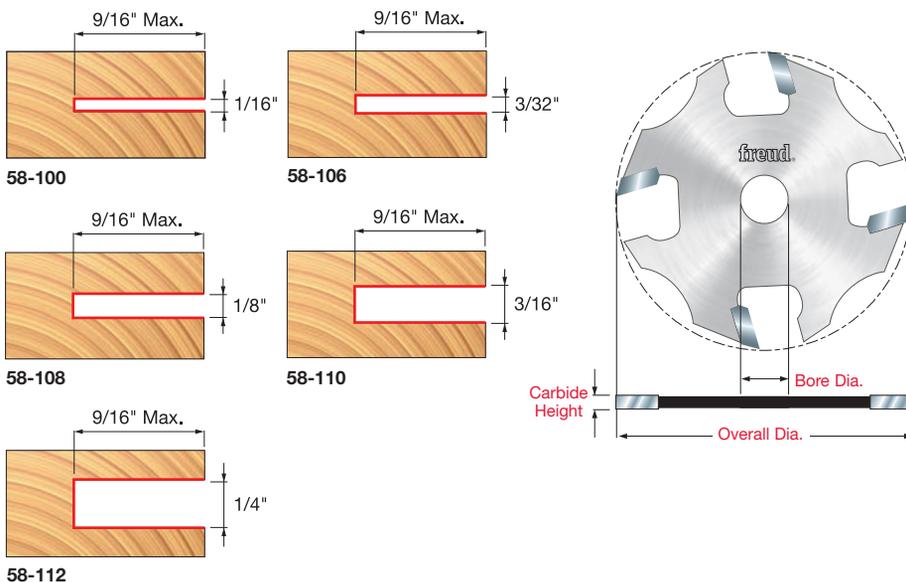
ROUTER BITS

## Four Wing Slotting Cutters



## JOINERY BITS

ITEM NUMBER	OVERALL DIA.	NUMBER OF CUTTERS	BORE DIA.	CARBIDE HEIGHT
58-100	2"	4	5/16"	1/16"
58-106	2"	4	5/16"	3/32"
58-108	2"	4	5/16"	1/8"
58-110	2"	4	5/16"	3/16"
58-112	2"	4	5/16"	1/4"



### USE IN



Table Router Hand Router

### APPLICATION

Producing slots and grooves for T-moldings, spline joints, tongue & groove joints and many other applications. Should be used with Freud's slotting cutter arbors 60-100 for 1/4" shanks and 60-102 for 1/2" shanks. Compatible with 62-108 bearing.

### MATERIALS



Hardwood

Softwood

MDF

Plywood

\* Solid Carbide

Red Item Numbers Indicate 1/2" Shank

All Profile Drawings 1:1 Scale

# JOINERY BITS



## Slotting Cutter Arbors

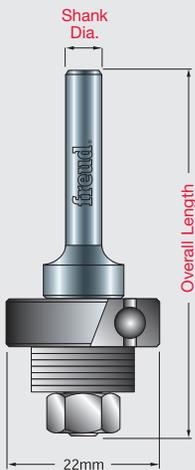
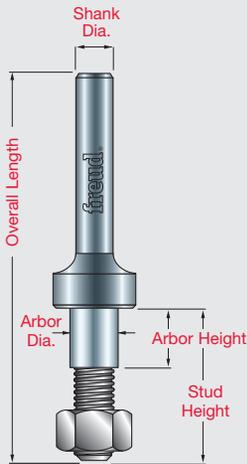
### USE IN



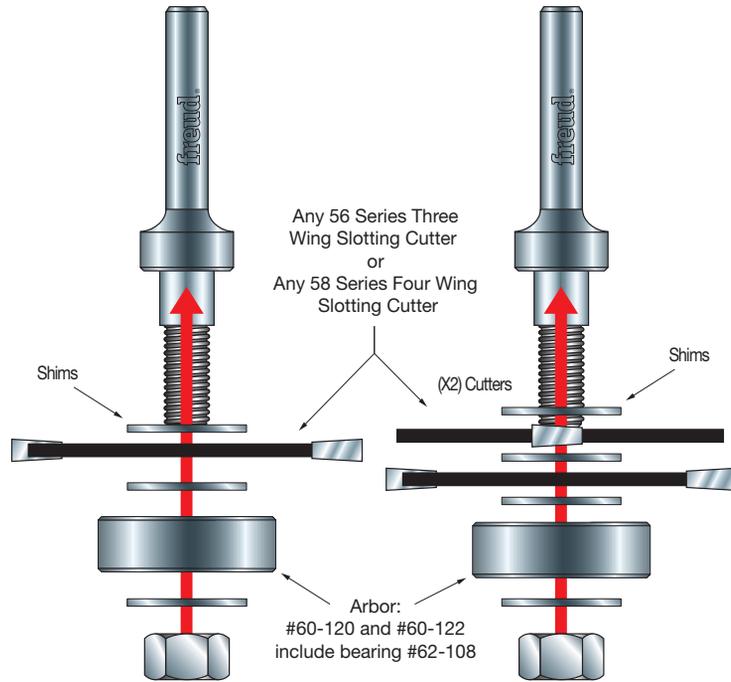
### APPLICATION

Producing smooth, precise, accurate slots. For premium performance use with Freud slotting cutters, although compatible with any slotting cutter with a 5/16" bore.

ROUTER BITS



ITEM NUMBER	ARBOR DIA.	STUD HEIGHT	ARBOR HEIGHT	SHANK DIA.	OVERALL LENGTH
60-100	5/16"	1"	25/64"	1/4"	2-3/8"
60-102	5/16"	1"	25/64"	1/2"	2-3/8"
60-120*	5/16"	1"	25/64"	1/4"	2-3/8"
60-122*	5/16"	1"	25/64"	1/2"	2-3/8"
60-152	5/16"	2-1/4"	5/8"	1/2"	4-1/4"

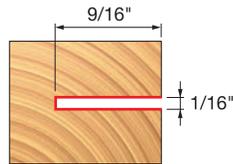


# Slotting Cutter Sets

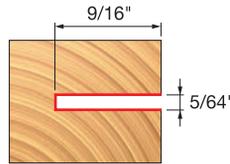


# JOINERY BITS

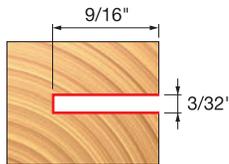
ITEM NUMBER	OVERALL DIA.	CARBIDE HEIGHT	CUT DEPTH	SHANK DIA.	OVERALL LENGTH
63-100	2"	1/16"	9/16"	1/4"	2-3/8"
63-104	2"	5/64"	9/16"	1/4"	2-3/8"
63-106	2"	3/32"	9/16"	1/4"	2-3/8"
63-108	2"	1/8"	9/16"	1/4"	2-3/8"
63-109	2"	5/32"	9/16"	1/4"	2-3/8"
63-110	2"	3/16"	9/16"	1/4"	2-3/8"
63-111	2"	15/64"	9/16"	1/4"	2-3/8"
63-112	2"	1/4"	9/16"	1/4"	2-3/8"
63-150	2"	1/16"	9/16"	1/2"	2-3/8"
63-154	2"	5/64"	9/16"	1/2"	2-3/8"
63-156	2"	3/32"	9/16"	1/2"	2-3/8"
63-158	2"	1/8"	9/16"	1/2"	2-3/8"
63-159	2"	5/32"	9/16"	1/2"	2-3/8"
63-160	2"	3/16"	9/16"	1/2"	2-3/8"
63-161	2"	15/64"	9/16"	1/2"	2-3/8"
63-162	2"	1/4"	9/16"	1/2"	2-3/8"



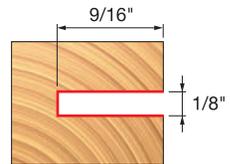
63-100 / 63-150



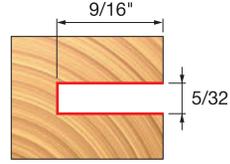
63-104 / 63-154



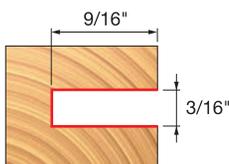
63-106 / 63-156



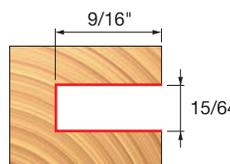
63-108 / 63-158



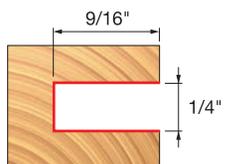
63-109 / 63-159



63-110 / 63-160



63-111 / 63-161



63-112 / 63-162

## USE IN



Table Router



Hand Router



CNC

## APPLICATION

Producing slots and grooves 9/16" deep for T-moldings, spline joints, tongue & groove joints, and other applications. Includes three wing slotting cutter, arbor and ball bearing.

## MATERIALS



Hardwood



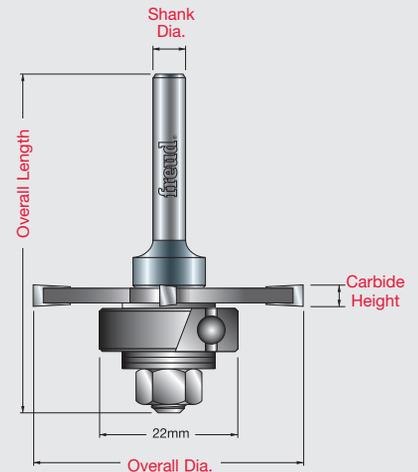
Softwood



MDF



Plywood



ROUTER BITS

\* Solid Carbide

Red Item Numbers Indicate 1/2" Shank

All Profile Drawings 1:1 Scale

# JOINERY BITS

## Canoe Joint Bits

### USE IN



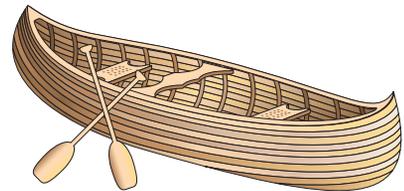
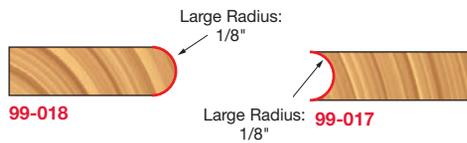
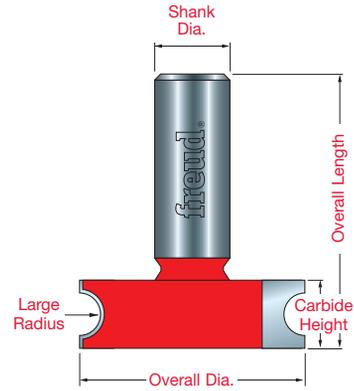
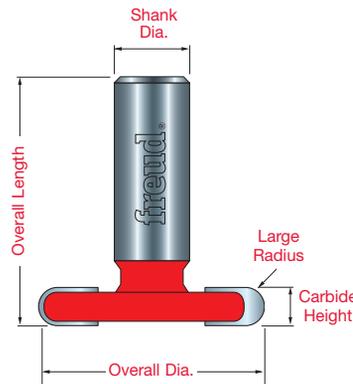
### APPLICATION

Producing joints for projects such as circular planters and canoes. Bit 99-017 cuts the flute and 99-018 cuts the mating bead.

### MATERIALS



ITEM NUMBER	OVERALL DIA.	CARBIDE HEIGHT	LARGE RADIUS	SHANK DIA.	OVERALL LENGTH
99-017	1-1/2"	1/4"	1/8"	1/2"	1-11/16"
99-018	1-1/2"	3/8"	1/8"	1/2"	1-7/8"



# JOINERY BITS

## Reversible Glue Joint Bit

### USE IN



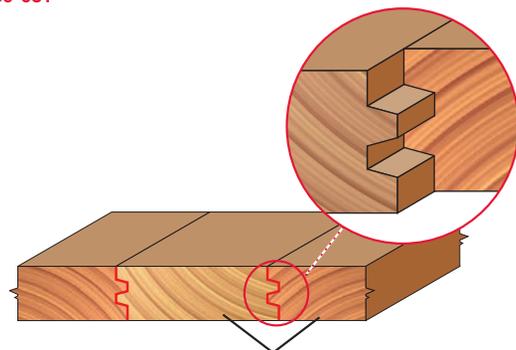
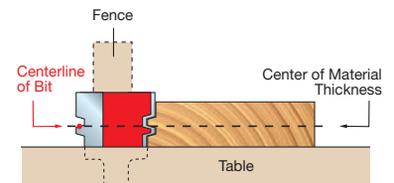
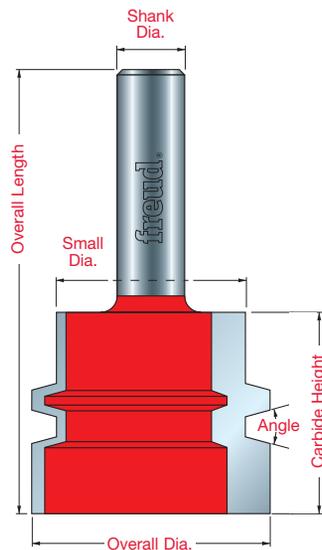
### APPLICATION

Providing a stronger joint by increasing the surface area for glue. Plane boards to a uniform thickness; align bit to the center of the board, then reverse each board for a perfect glue joint.

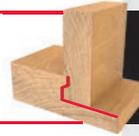
### MATERIALS



ITEM NUMBER	OVERALL DIA.	SMALL DIA.	CARBIDE HEIGHT	ANGLE	SHANK DIA.	OVERALL LENGTH
99-031	1-1/2"	1-3/16"	1-1/4"	30°	1/2"	2-3/4"

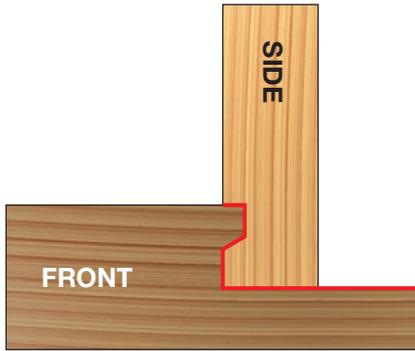


# Drawer Lock Bits

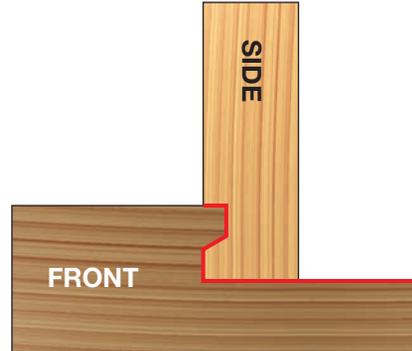


# JOINERY BITS

ITEM NUMBER	OVERALL DIA.	SMALL DIA.	CARBIDE HEIGHT	MINOR HEIGHT	ANGLE	SHANK DIA.	OVERALL LENGTH
99-239	1-1/4"	1-1/64"	1/2"	13/64"	30°	1/4"	1-3/4"
99-240	2"	1-3/4"	33/64"	5/32"	30°	1/2"	2"

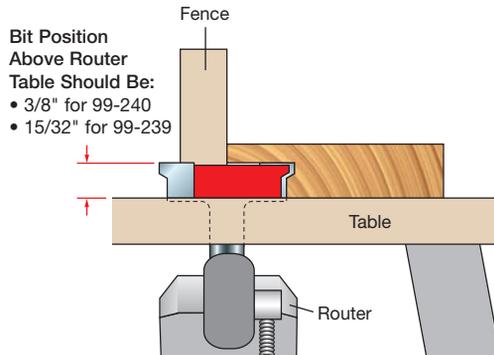


99-239

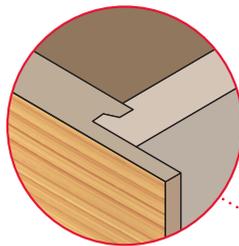
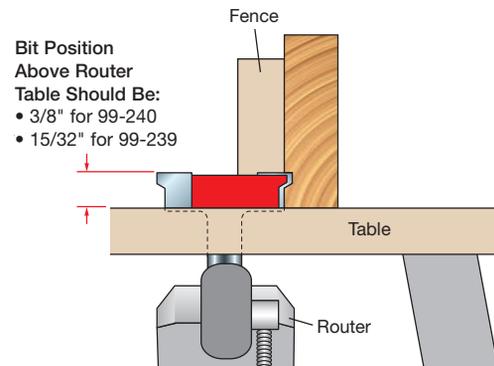


99-240

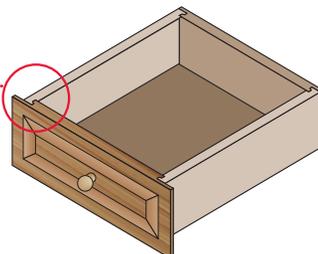
1



2



Example of Drawer Lock



## USE IN

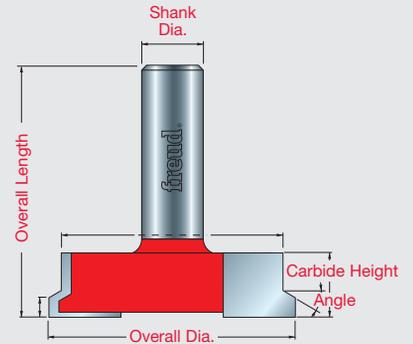


Table Router

## APPLICATION

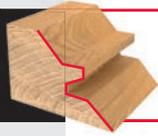
Forming a strong joint between the sides and front of a drawer. Drawer fronts are formed horizontally, flat on the table surface. Drawer sides are formed vertically against the fence of the table.

## MATERIALS



ROUTER BITS

# JOINERY BITS



## Lock Miter Bits

### USE IN



### APPLICATION

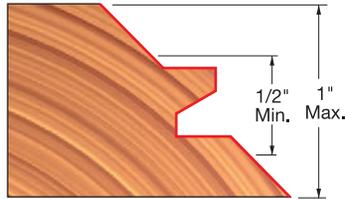
Creating interlocking corner joints. Run one board vertically and the piece to be joined horizontally. 99-035 cuts thinner panels for projects such as humidors and jewelry boxes.

### MATERIALS

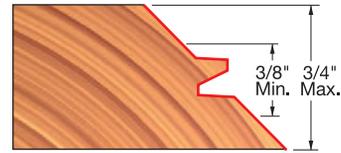


ROUTER BITS

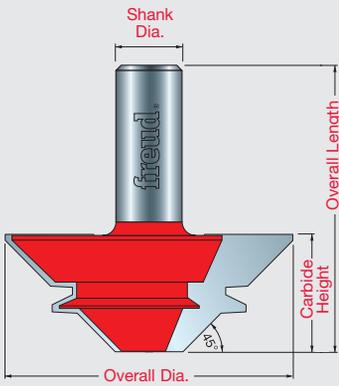
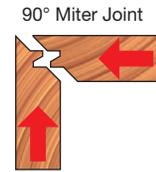
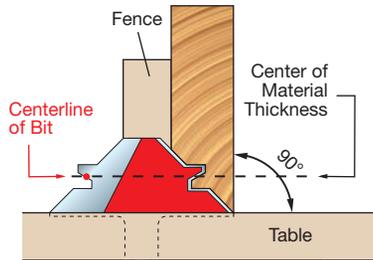
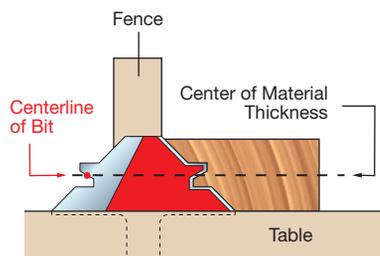
ITEM NUMBER	OVERALL DIA.	CARBIDE HEIGHT	ANGLE	SHANK DIA.	OVERALL LENGTH
99-034	2-3/4"	1-5/32"	45°	1/2"	2-5/8"
99-035	2-11/64"	7/8"	45°	1/2"	2-3/8"
99-043	1-15/32"	7/8"	22-1/2°	1/2"	2-3/8"



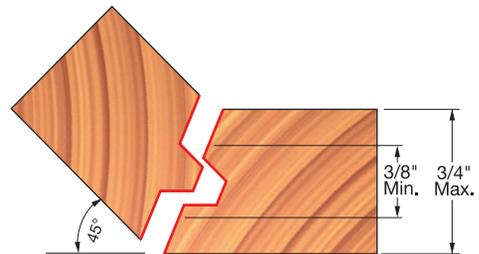
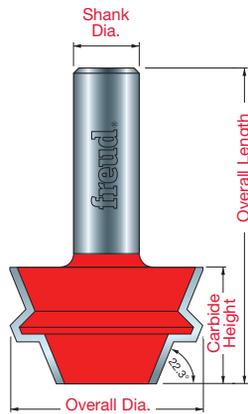
99-034



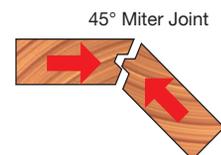
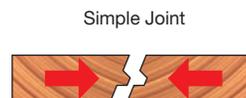
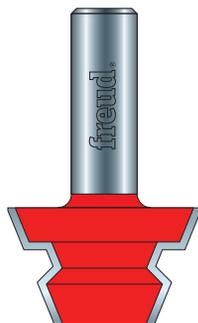
99-035



### 22-1/2° Set



99-043



# Wedge Tongue & Groove Bits



# JOINERY BITS

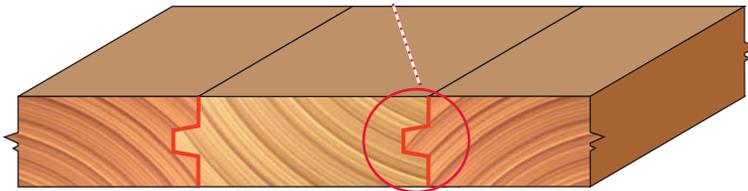
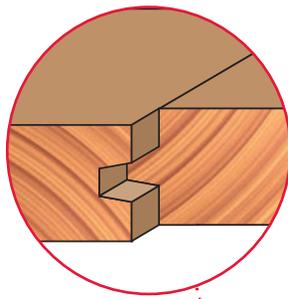
ITEM NUMBER	OVERALL DIA.	CUT DEPTH	CARBIDE HEIGHT	ANGLE	SHANK DIA.	OVERALL LENGTH
99-032	1-21/32"	5/16"	1-3/32"	10°	1/2"	2-5/8"
99-033	1-21/32"	5/16"	1-3/32"	10°	1/2"	2-5/8"



99-033



99-032



Opposing Grain Direction

## USE IN



Table Router

## APPLICATION

Joining boards for wide panels such as table tops. Provides a strong joint, due to the increased glue area.

## MATERIALS



Hardwood



Softwood

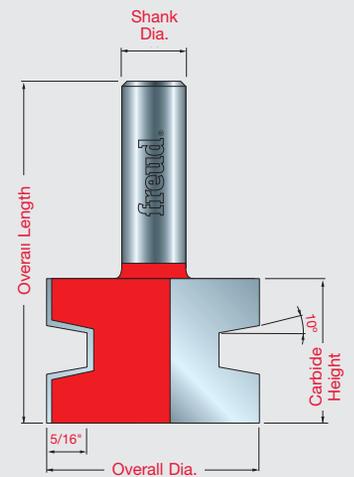
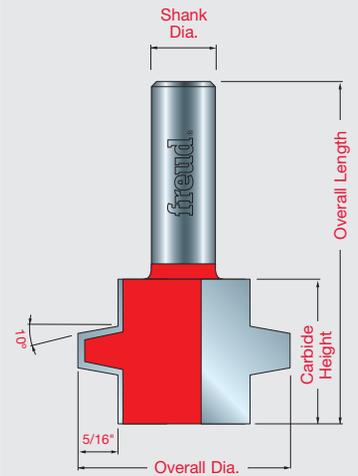


MDF



Plywood

ROUTER BITS



# JOINERY BITS



## Adjustable Tongue & Groove Bit Set

### USE IN



Table Router

### APPLICATION

Producing perfectly fitted tongue and groove joints for projects such as Shaker style cabinet doors. Exclusive Freud design features a tongue cutter with opposing shear angles to ensure a flawless finish. Adjustable at .002 inch increments for stock thickness of 1/2" to 1-1/4" and groove widths of 7/32" to 3/8".

### MATERIALS

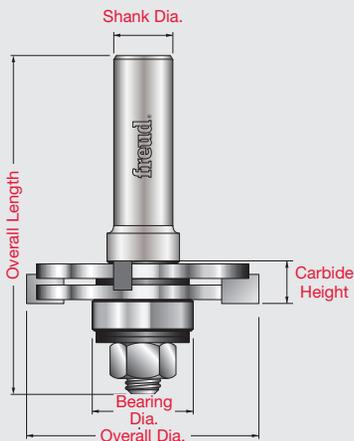
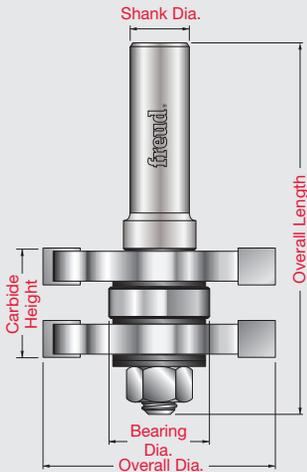


Hardwood

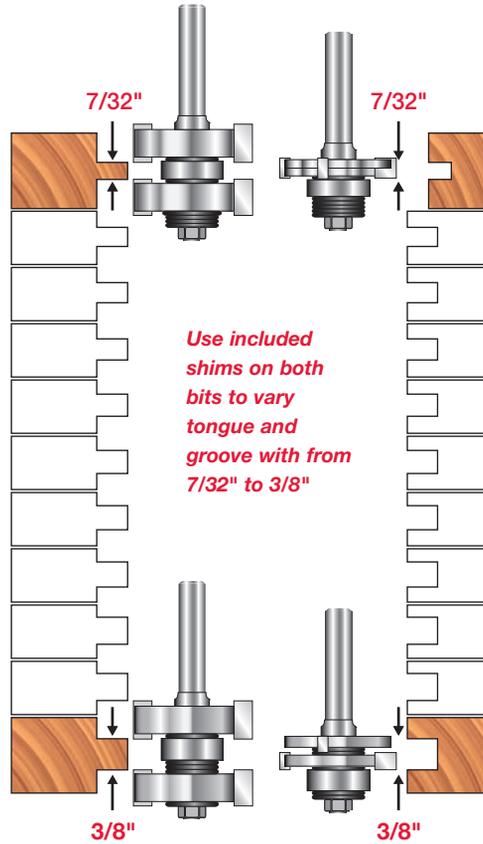
Softwood

MDF

Plywood



ITEM NUMBER	BIT TYPE	OVERALL DIA.	BEARING DIA.	CARBIDE HEIGHT	SHANK DIA.	OVERALL LENGTH
99-036	Tongue Bit	1-3/4"	7/8"	13/16" ~ 1-11/32"	1/2"	3-1/4"
	Groove Bit	1-3/4"	7/8"	7/32" ~ 3/8"	1/2"	2-11/16"



Use included shims on both bits to vary tongue and groove with from 7/32" to 3/8"



Tongue & Groove Joints

Breadboard Ends

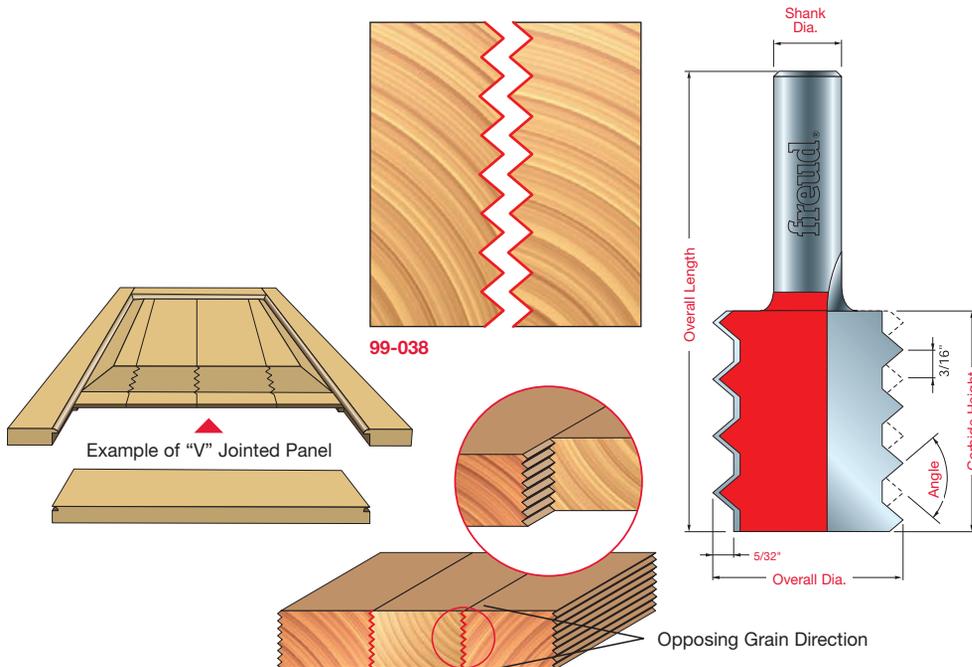
Shaker Style Doors

## Raised Panel "V" Joint Bit



## JOINERY BITS

ITEM NUMBER	OVERALL DIA.	CARBIDE HEIGHT	MINOR HEIGHT	ANGLE	SHANK DIA.	OVERALL LENGTH
99-038	1-3/8"	1-37/64"	3/16"	80°	1/2"	3-1/16"



### USE IN



Table Router

### APPLICATION

Producing strong, attractive glue joint raised panels. Mating surfaces are at an angle, not vertical, so the dark lines like those created by standard finger joint bits are not visible. Simply raise or lower the bit 3/32" to route the mating edge.

### MATERIALS



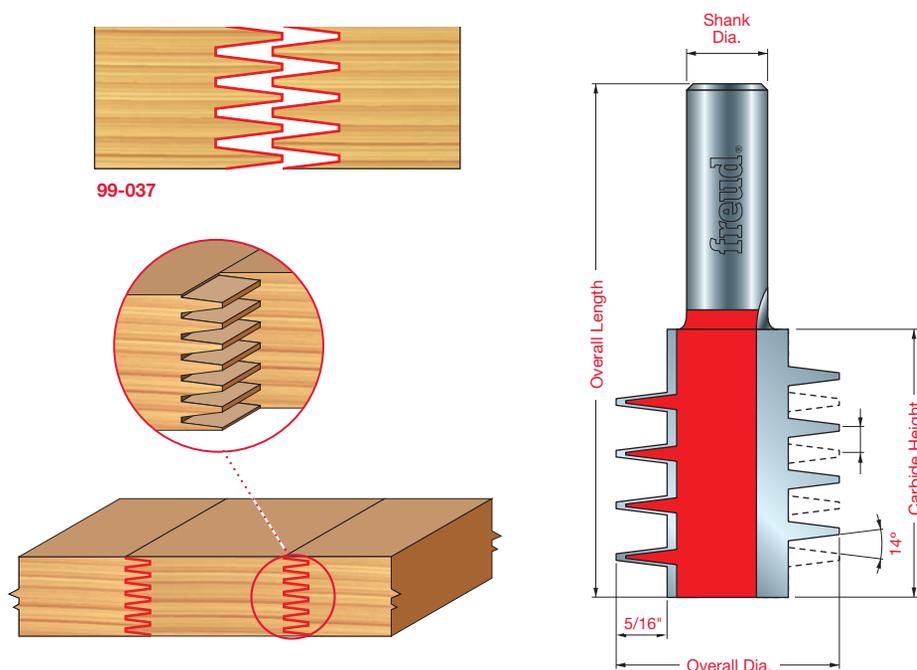
ROUTER BITS

## Finger Joint Bit



## JOINERY BITS

ITEM NUMBER	OVERALL DIA.	CARBIDE HEIGHT	MINOR HEIGHT	ANGLE	SHANK DIA.	OVERALL LENGTH
99-037	1-3/8"	5/16"	1-9/16"	21/64"	1/2"	3"



### USE IN



Table Router



CNC

### APPLICATION

Joining wood edge-to-edge or end-to-end. Produces a joint that is stronger than the wood itself. Tips on each side of the bit are offset, cutting twice as many fingers as you see tips on each side of the bit.

### MATERIALS



# JOINERY BITS

## Variable Height Finger Joint Bit

### USE IN



Table Router Hand Router

### APPLICATION

Adjustable to produce finger joints up to 1-25/32" thick. Ideal for joining wood edge-to-edge or end-to-end, because the joint produced is stronger than the wood itself. Replacement cutters available and uses arbor #60-152. Allows you complete freedom when producing finger joints.

### MATERIALS



Hardwood

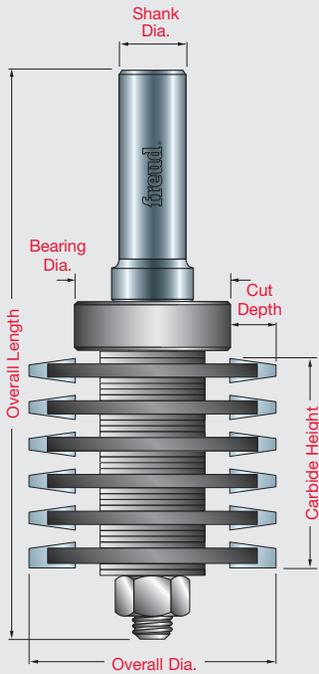
Softwood



MDF



Plywood



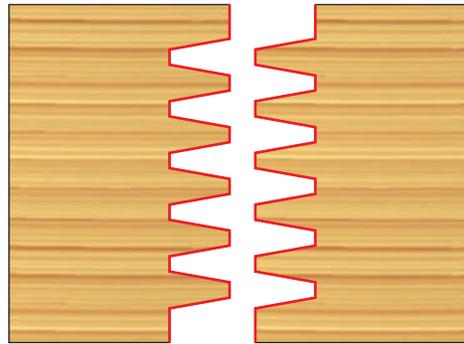
ITEM NUMBER	OVERALL DIA.	CUT DEPTH	BEARING DIA.	CARBIDE HEIGHT	SHANK DIA.	OVERALL LENGTH
99-039	2"	5/16"	1-3/8"(35mm)	1-9/16"	1/2"	4-1/4"

### Replacement Cutters

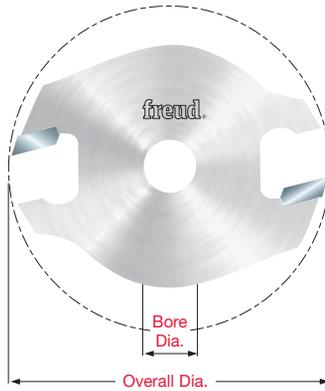
ITEM NUMBER	OVERALL DIA.	BORE DIA.	CARBIDE HEIGHT
52-104	2"	5/16"	7/32"
52-108	2"	5/16"	21/64"

### Replacement Bearings

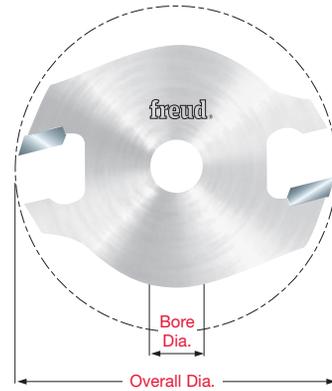
ITEM NUMBER	OUTSIDE DIA.	INSIDE DIA.	HEIGHT
62-109	35mm	15mm	11mm



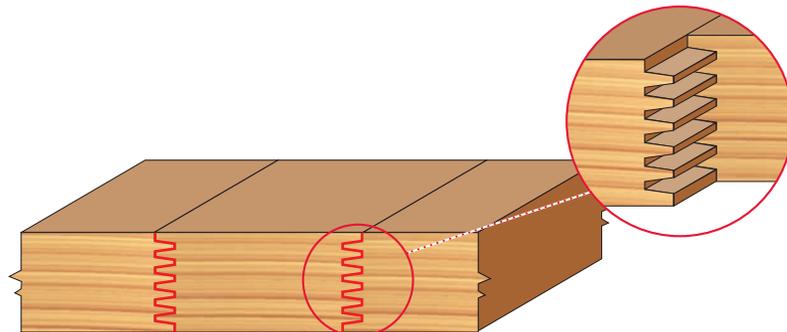
99-039



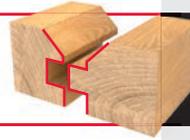
52-108



52-104



# "V" Panel Bit Set



# JOINERY BITS

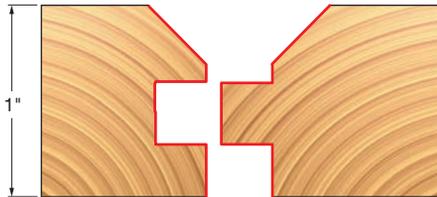
ITEM NUMBER	OVERALL DIA.	SMALL DIA.	CARBIDE HEIGHT	MINOR HEIGHT 1	MINOR HEIGHT 2	ANGLE	SHANK DIA.	OVERALL LENGTH
99-191	2-11/64"	1-37/64"	1-1/8"	5/32" - 5/16"	25/64"	45°	1/2"	3-3/8"



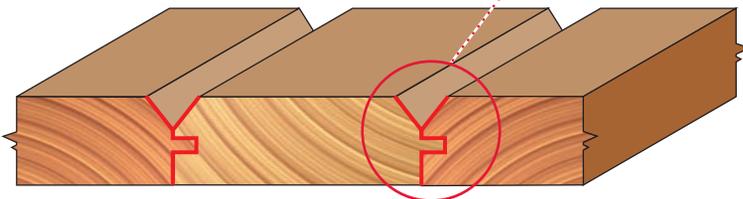
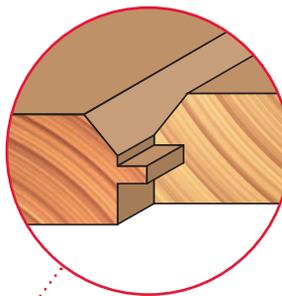
99-191



99-191



99-191



## USE IN



Table Router

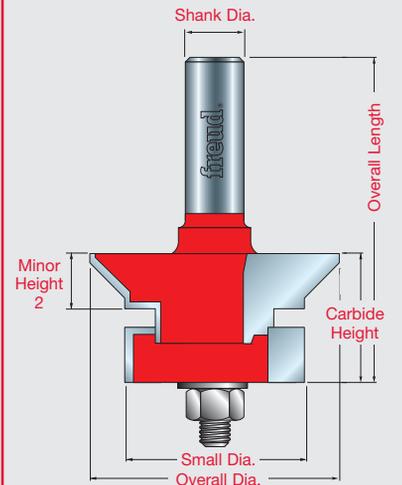
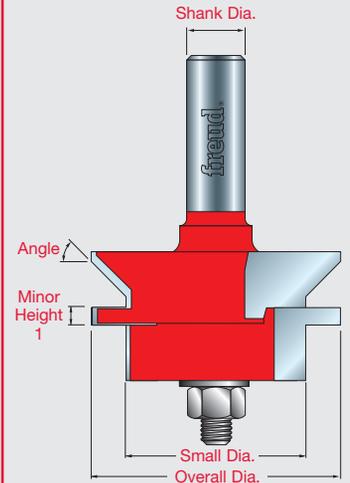
## APPLICATION

Creating attractive "V" Groove paneling. Set includes spacers that allow you to produce "V" paneling from 1/2", 3/4", or 1" thick stock.

## MATERIALS



ROUTER BITS



\* Solid Carbide

Red Item Numbers Indicate 1/2" Shank

All Profile Drawings 1:1 Scale

# SOLID SURFACE BITS

## Round Over Bowl Bits

### USE IN

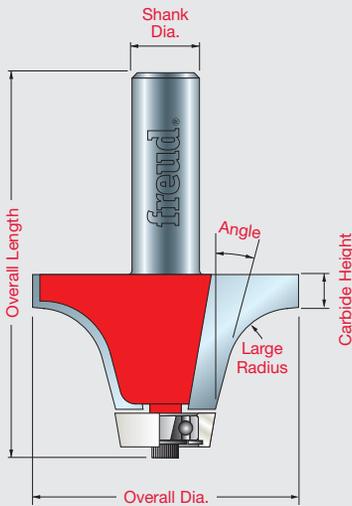
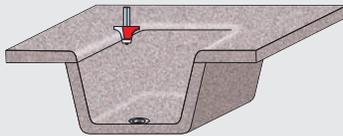


Hand Router

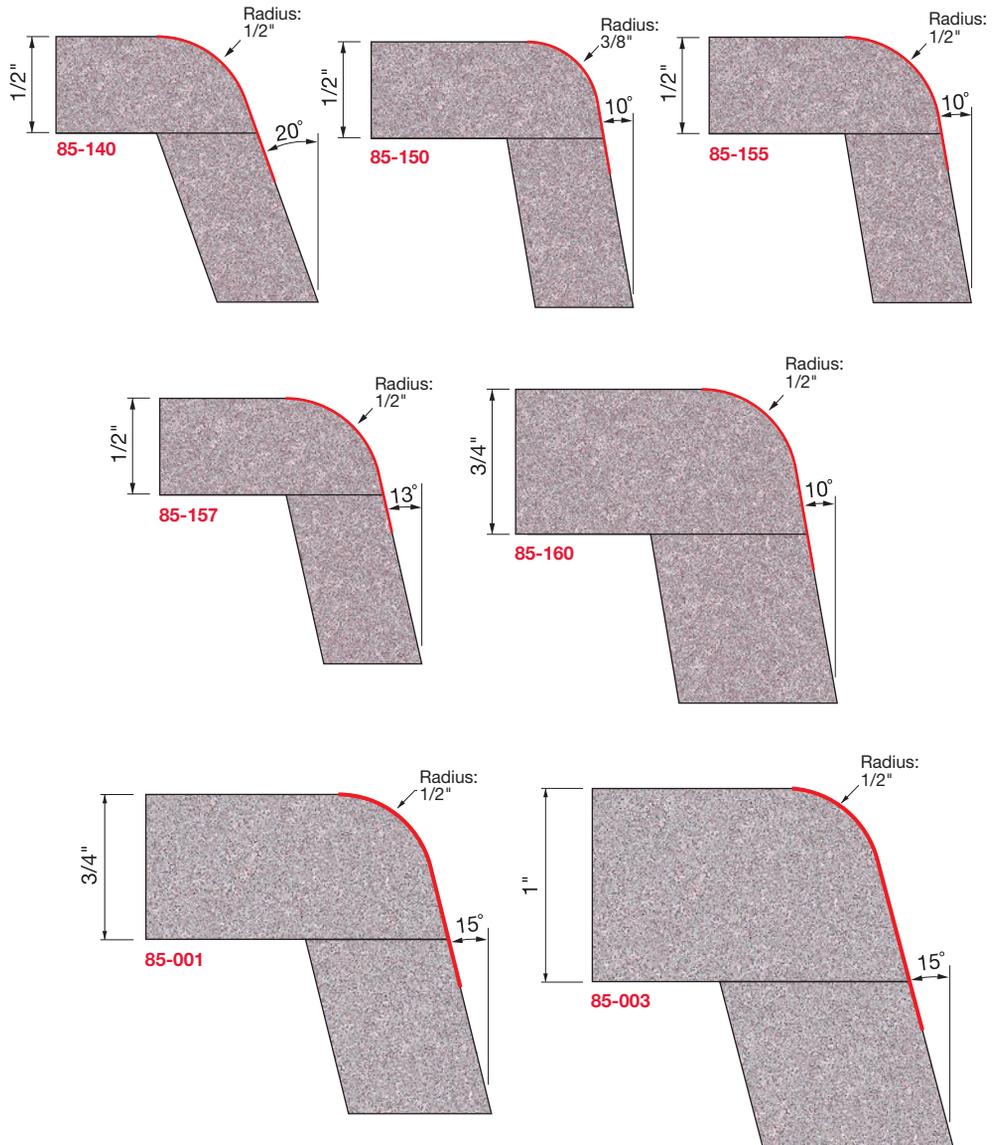
### APPLICATION

Trimming joint between solid surface countertops and solid surface sink bowls with a smooth, rounded edge. Specially formulated carbide is ideal for fabricating solid surface materials. Features non-marring synthetic bearing to protect finished edges.

ROUTER BITS

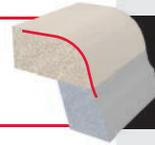


ITEM NUMBER	FOR TOP THICKNESS	OVERALL DIA.	CARBIDE HEIGHT	LARGE RADIUS	ANGLE	SHANK DIA.	OVERALL LENGTH
For Corian® Bowls 802, 809, 810, 871							
85-140	1/2"	2-1/8"	1"	1/2"	20°	1/2"	2-13/16"
For Avonite®, Corian®, Fountainhead®, & Formica® bowls, Transolid® and Hi-Macs® sinks							
85-150	1/2"	2-1/8"	7/8"	3/8"	10°	1/2"	2-3/4"
85-155	1/2"	2-1/4"	7/8"	1/2"	10°	1/2"	2-51/64"
85-160	3/4"	2-1/2"	1-1/8"	1/2"	10°	1/2"	3-3/64"
For Gruber®, Royal Stone®, Transolid® and Hi-Macs® Bowls							
85-157	1/2"	2-3/8"	7/8"	1/2"	13°	1/2"	2-51/64"
For various bowls and sinks with 15° angle							
85-001	3/4"	2"	1"	1/2"	15°	1/2"	2-7/8"
85-003	1"	2"	1-1/4"	1/2"	15°	1/2"	3-1/8"



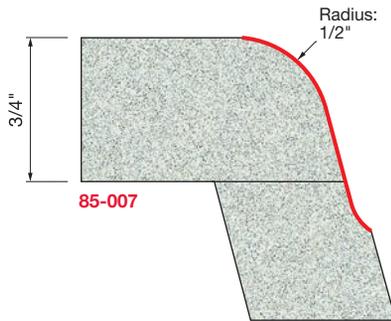
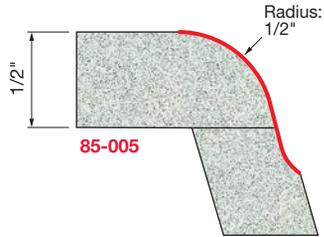
Avonite® is a registered trademark of Aristech Acrylics LLC, Corian® is a registered trademark of Dupont Co., Formica®, Fountainhead® and Surell® are registered trademarks of the Formica Corp., Gruber® is a registered trademark of Gruber System, Inc., HiMacs® is a registered trademark of LG Hi-Macs, Royal Stone® is a registered trademark of Royal Stone Industries, Inc., Transolid® is a registered trademark of Transolid, Inc.

# Ogee Bowl Bits



# SOLID SURFACE BITS

ITEM NUMBER	FOR TOP THICKNESS	OVERALL DIA.	CARBIDE HEIGHT	LARGE RADIUS	ANGLE	SHANK DIA.	OVERALL LENGTH
For Corian® Bowls 802, 809, 810, 871							
85-005	1/2"	2"	1"	1/2"	15°	1/2"	2-7/8"
85-007	3/4"	2"	1-1/4"	1/2"	15°	1/2"	3-1/8"



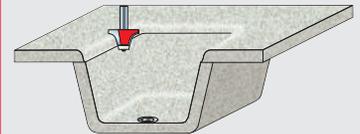
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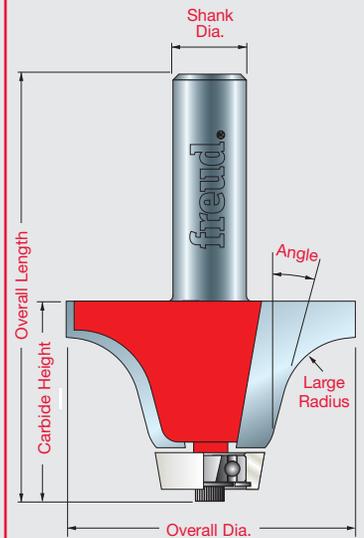
Hand Router

## APPLICATION

Trimming joint between solid surface countertops and solid surface sink bowls with a rounded ogee design. Specially formulated carbide is ideal for fabricating solid surface materials. Features non-marring synthetic bearing to protect finished edges.



ROUTER BITS



# SOLID SURFACE BITS

## Bevel Bowl Bits

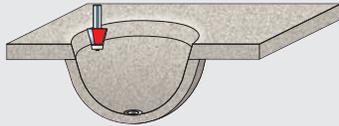
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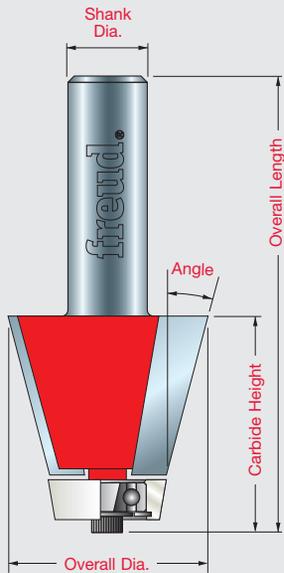
Hand Router

### APPLICATION

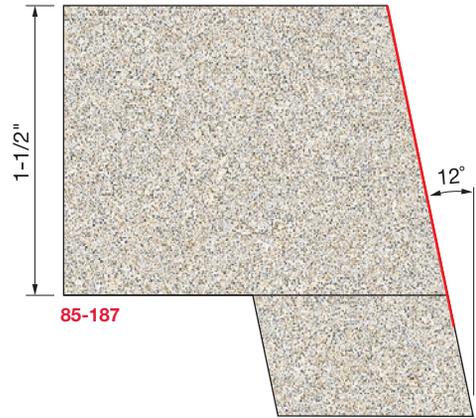
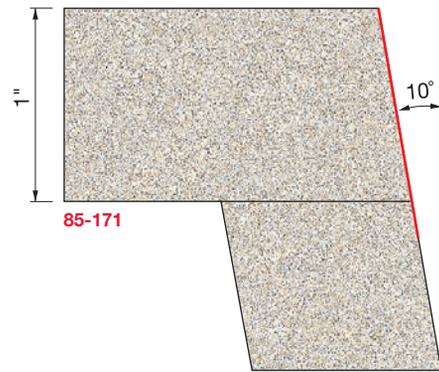
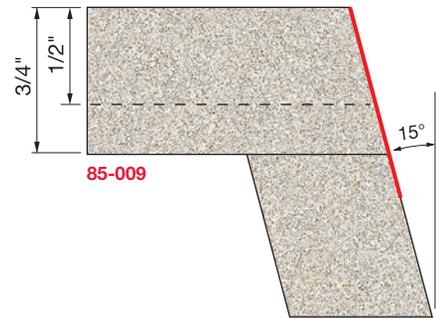
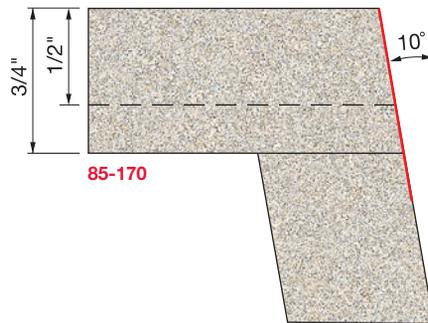
Trimming joint between solid surface countertops and solid surface sink bowls with a beveled edge. Specially formulated carbide is ideal for fabricating solid surface materials. Features non-marring synthetic bearing to protect finished edges.



ROUTER BITS



ITEM NUMBER	FOR TOP THICKNESS	OVERALL DIA.	CARBIDE HEIGHT	ANGLE	SHANK DIA.	OVERALL LENGTH
For Avonite®, Cerata® and Corian® sinks and bowls						
85-170	1/2" or 3/4"	1-3/8"	1"	10°	1/2"	2-7/8"
85-171	1"	1-9/16"	1-1/4"	10°	1/2"	3-1/8"
85-172	1-1/2"	1-3/4"	1-3/4"	10°	1/2"	3-3/8"
For Royal Stone®, Gruber® and Staron® sinks and bowls						
85-187	1-1/2"	1-3/4"	1-3/4"	12°	1/2"	3-5/8"
For 15° sinks and bowls						
85-009	1/2" or 3/4"	1-9/32"	1"	15°	1/2"	2-7/8"



Avonite® is a registered trademark of Aristech Acrylics LLC, Cerata® is a registered trademark of Hartson-Kennedy Corp., Corian® is a registered trademark of Dupont Co., Gruber® is a registered trademark of Gruber System, Inc., Royal Stone® is a registered trademark of Royal Stone Industries, Inc., Staron® is a registered trademark of Samsung, Inc.

# Flush Trim Solid Surface Bits

# SOLID SURFACE BITS

ITEM NUMBER	FOR TOP THICKNESS	SHEAR DIRECTION	OVERALL DIA.	CARBIDE HEIGHT	SHANK DIA.	OVERALL LENGTH
85-227	1/2" to 1-1/2"	N/A	3/4"	1-3/4"	1/2"	3-5/8"
<b>Spiral Flush Trim Bits</b>						
75-508	1"	Up	1/2"	1-1/4"	1/2"	3-3/4"
75-509	1-3/4"	Up	1/2"	2"	1/2"	4-11/16"
76-508	1"	Down	1/2"	1-1/4"	1/2"	3-3/4"
76-509	1-3/4"	Down	1/2"	2"	1/2"	4-11/16"

## USE IN

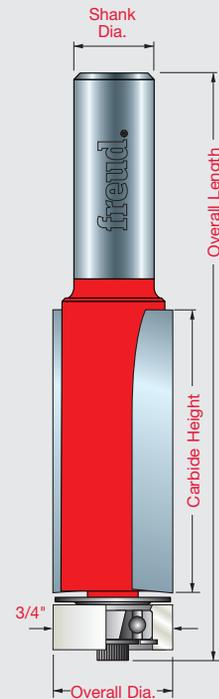
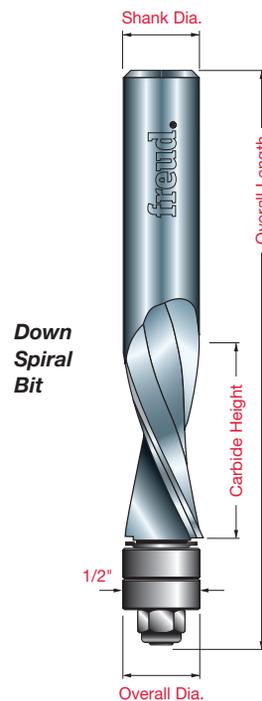
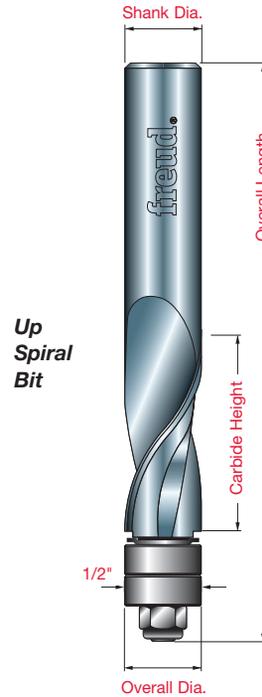
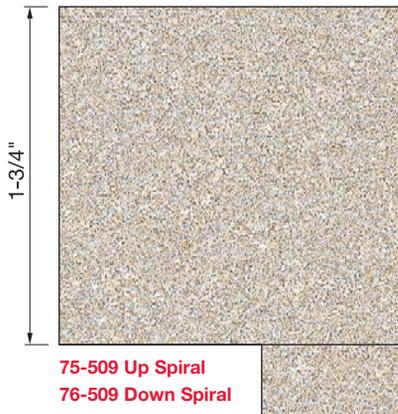
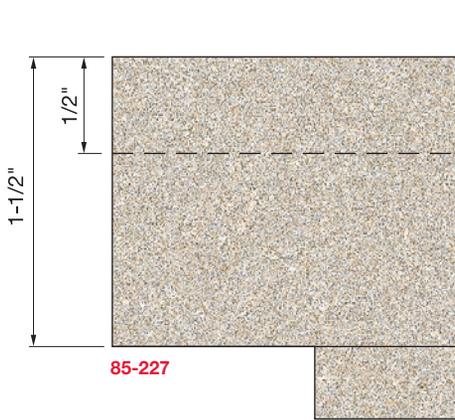


Hand Router

## APPLICATION

Flush trimming of solid surface materials. Specially formulated carbide is ideal for fabricating solid surface materials. Bit #85-227 features non-marring synthetic bearing to protect finished edges. Spiral flush trim bits deliver very fast, clean cuts in thick solid surface materials.

ROUTER BITS



Red Item Numbers Indicate 1/2" Shank

All Profile Drawings 1:1 Scale

# SOLID SURFACE BITS

## Overhang Trim and Cut Out Bits

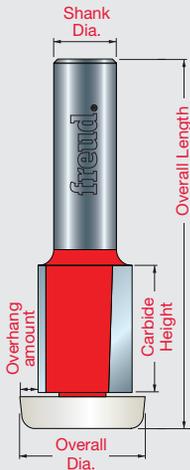
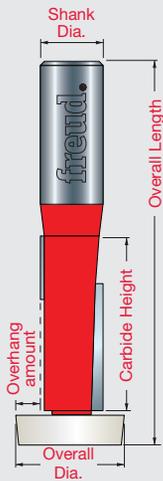
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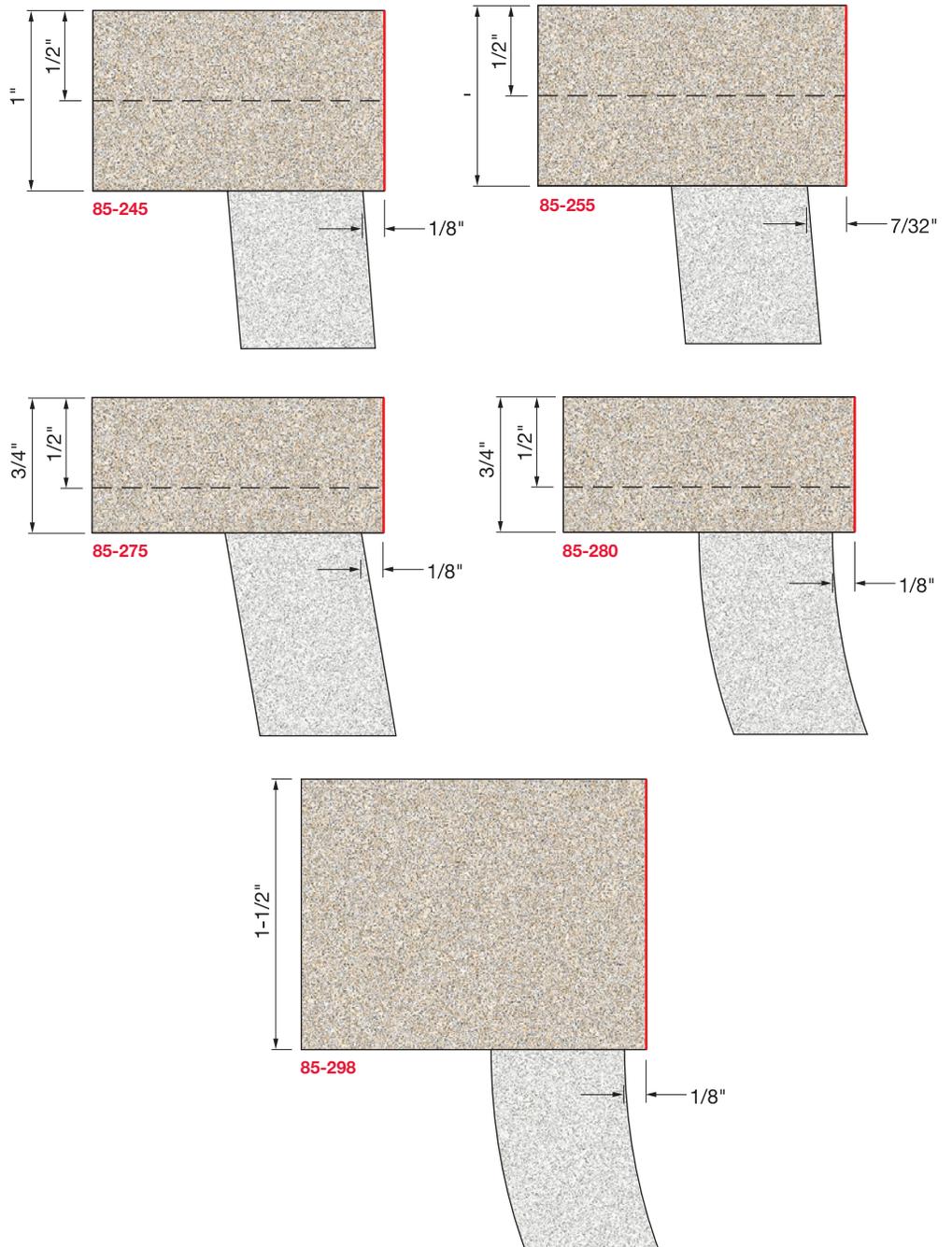
Hand Router

### APPLICATION

Initial bowl cut out to prepare for round over, ogee, bevel or bull nose finish cuts. Specially formulated carbide is ideal for fabricating solid surface materials. Features non-marring synthetic bearing to protect finished edges.



ITEM NUMBER	FOR TOP THICKNESS	OVERHANG AMOUNT	OVERALL DIA.	CARBIDE HEIGHT	SHANK DIA.	OVERALL LENGTH
<b>Overhang Cut Out Bits with 5° beveled bearing</b>						
85-245	1-1/4"	1/8"	1/2"	1-3/8"	1/2"	3"
85-255	1-1/4"	7/32"	1/2"	1-3/8"	1/2"	3"
<b>Overhang Trim Bit with 10° beveled bearing</b>						
85-275	1/2" or 3/4"	1/8"	3/4"	1"	1/2"	2-7/8"
<b>Overhang Trim Bits with 5° radiused bearing</b>						
85-280	1/2" or 3/4"	1/8"	3/4"	1"	1/2"	2-7/8"
85-298	1-1/2"	1/8"	3/4"	1-3/4"	1/2"	3-5/8"

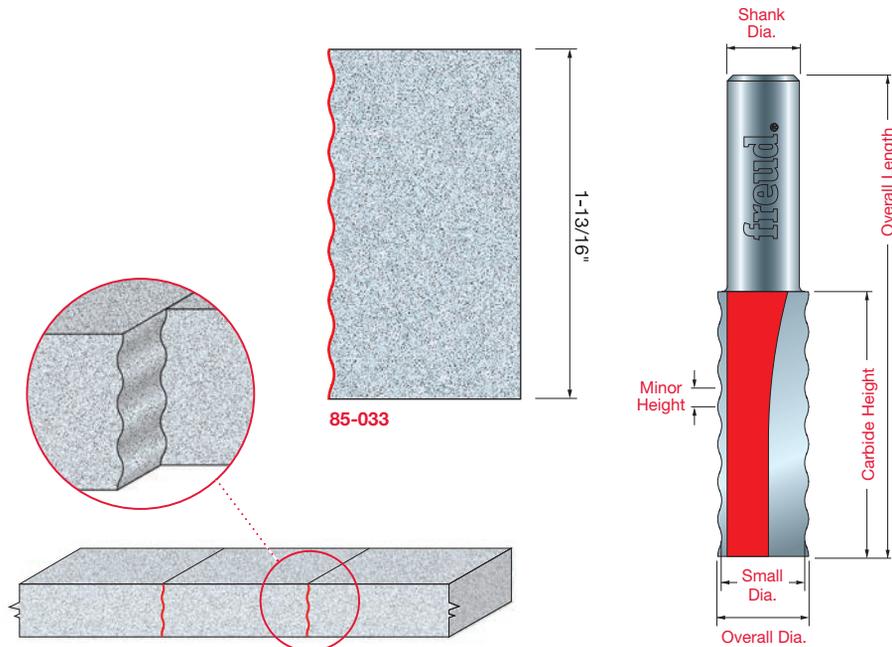


ROUTER BITS

## Wavy Joint Bit

# SOLID SURFACE BITS

ITEM NUMBER	OVERALL DIA.	SMALL DIA.	CARBIDE HEIGHT	MINOR HEIGHT	SHANK DIA.	OVERALL LENGTH
85-033	5/8"	37/64"	1-13/16"	1/8"	1/2"	3-1/8"



### USE IN



Hand Router

### APPLICATION

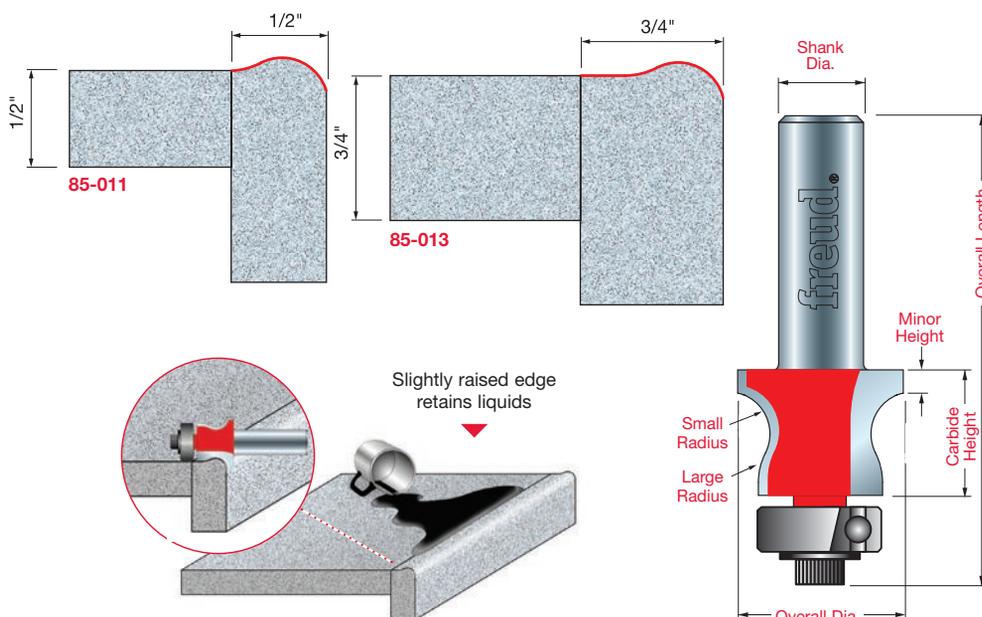
Producing a sturdy joint in solid surface countertops. Waves formed in material accommodate more surface glue, creating a solid joint. Specially formulated carbide is ideal for fabricating solid surface materials.

ROUTER BITS

## No Drip Edge Bits

# SOLID SURFACE BITS

ITEM NUMBER	OVERALL DIA.	CARBIDE HEIGHT	MINOR HEIGHT	LARGE RADIUS	SMALL RADIUS	SHANK DIA.	OVERALL LENGTH
85-011	1"	3/4"	9/64"	3/8"	1/4"	1/2"	2-13/16"
85-013	1"	1"	9/64"	3/8"	1/4"	1/2"	3-1/16"



### USE IN



Hand Router

### APPLICATION

Creating a slightly raised edge on a solid surface countertop. Specially formulated carbide is ideal for fabricating solid surface materials.

# SOLID SURFACE BITS



## Under Rounding Bit For Bull Nose

### USE IN



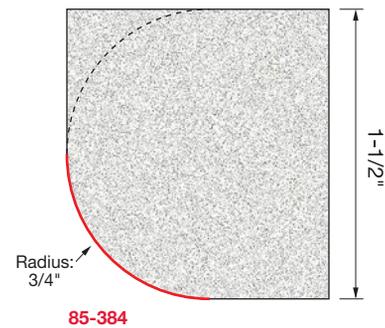
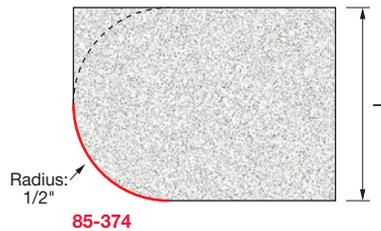
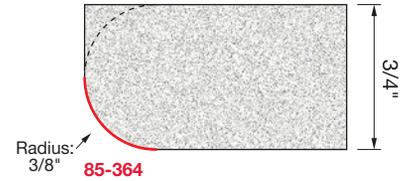
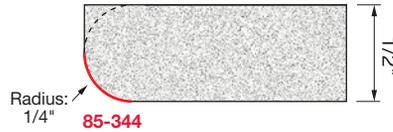
Hand Router

### APPLICATION

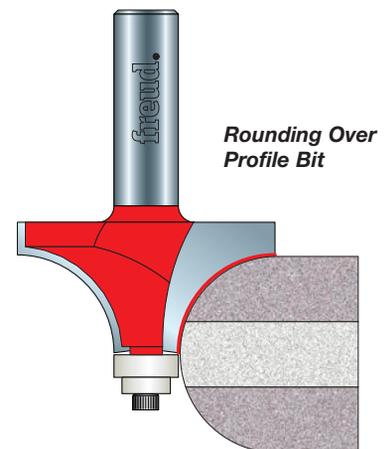
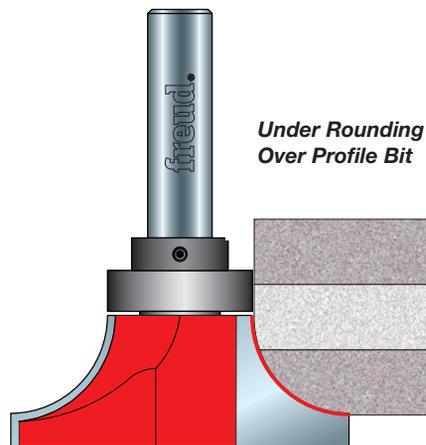
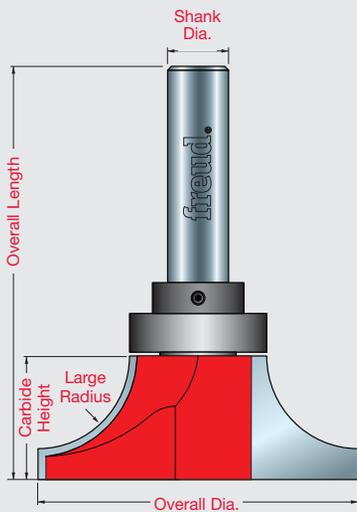
Routing the lower portion of a bull nose edge. Combine these bits with the rounding over bits above to create perfect bull nose edges. Specially formulated carbide is ideal for fabricating solid surface materials.

ROUTER BITS

ITEM NUMBER	FOR TOP THICKNESS	OVERALL DIA.	CARBIDE HEIGHT	LARGE RADIUS	SHANK DIA.	OVERALL LENGTH
85-344	1/2"	1-5/8"	3/8"	1/4"	1/2"	2-5/8"
85-364	3/4"	1-7/8"	1/2"	3/8"	1/2"	2-3/4"
85-374	1"	2-1/8"	3/4"	1/2"	1/2"	3"
85-384	1-1/2"	2-5/8"	1"	3/4"	1/2"	3-3/8"



A full bull nose profile can be created by using the under rounding bit to create the bottom round over profile and use the rounding over bit (next page) to create the top round over profile.

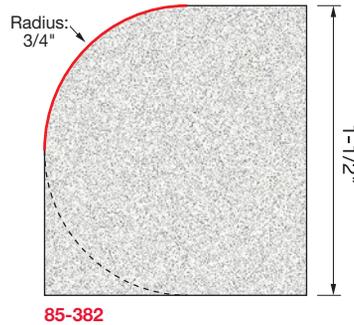
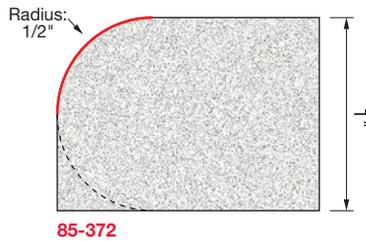
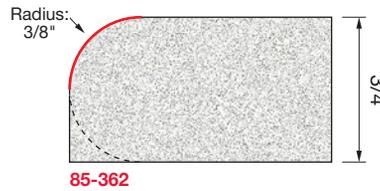
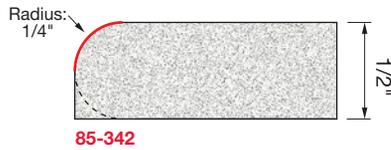


## Rounding Over Bits



# SOLID SURFACE BITS

ITEM NUMBER	FOR TOP THICKNESS	OVERALL DIA.	CARBIDE HEIGHT	LARGE RADIUS	SHANK DIA.	OVERALL LENGTH
85-342	1/2"	1"	3/8"	1/4"	1/2"	2-3/8"
85-362	3/4"	1-1/4"	1/2"	3/8"	1/2"	2-1/2"
85-372	1"	1-1/2"	3/4"	1/2"	1/2"	2-3/4"
85-382	1-1/2"	2"	1"	3/4"	1/2"	3"



### USE IN

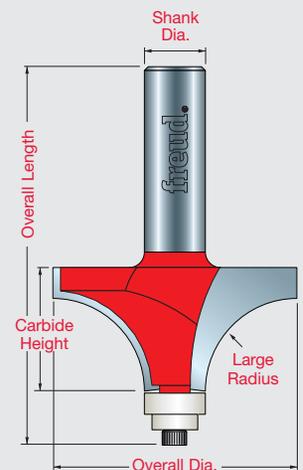


Hand Router

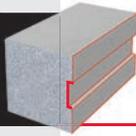
### APPLICATION

Rout rounded top edges, or use with under rounding bits to create bull nose profiles. Use to rout a round over, or in combination with the under rounding bits with the same radius to rout a bull nose. Specially formulated carbide is ideal for fabricating solid surface materials. Features non-marring synthetic bearing to protect finished edges.

ROUTER BITS



# SOLID SURFACE BITS



## Inlay Bits

### USE IN

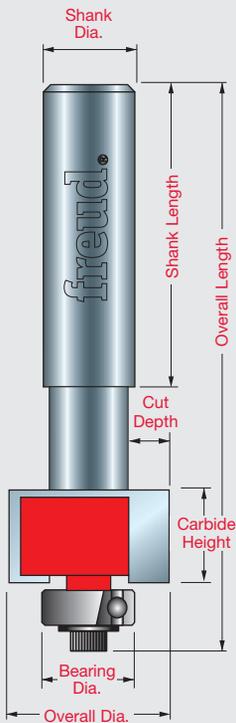


Hand Router

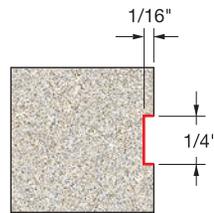
### APPLICATION

Decorative inlay work in solid surface countertops. Specially formulated carbide is ideal for fabricating solid surface materials.

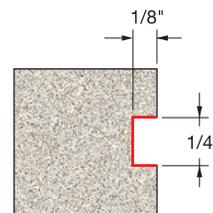
ROUTER BITS



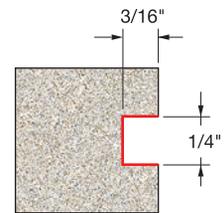
ITEM NUMBER	OVERALL DIA.	CUT DEPTH	BEARING DIA.	CARBIDE HEIGHT	SHANK LENGTH	SHANK DIA.	OVERALL LENGTH
85-015	7/8"	1/16"	3/4"	1/4"	1-5/8"	1/2"	2-13/16"
85-017	7/8"	1/8"	5/8"	1/4"	1-5/8"	1/2"	2-13/16"
85-019	7/8"	3/16"	1/2"	1/4"	1-5/8"	1/2"	2-13/16"
85-021	7/8"	1/16"	3/4"	1/2"	1-5/8"	1/2"	3-1/16"
85-023	7/8"	1/8"	5/8"	1/2"	1-5/8"	1/2"	3-1/16"
85-025	7/8"	3/16"	1/2"	1/2"	1-5/8"	1/2"	3-1/16"
85-027	7/8"	1/16"	3/4"	3/4"	1-5/8"	1/2"	3-5/16"
85-029	7/8"	1/8"	5/8"	3/4"	1-5/8"	1/2"	3-5/16"
85-031	7/8"	3/16"	1/2"	3/4"	1-5/8"	1/2"	3-5/16"



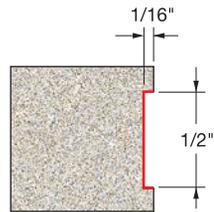
85-015



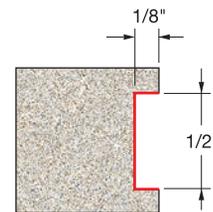
85-017



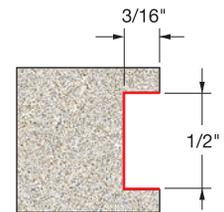
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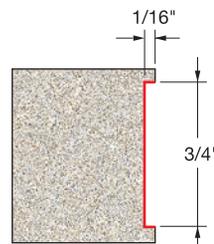
85-021



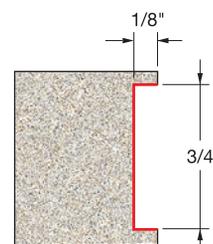
85-023



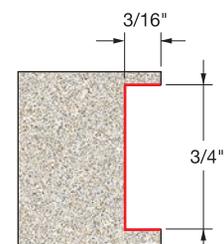
85-025



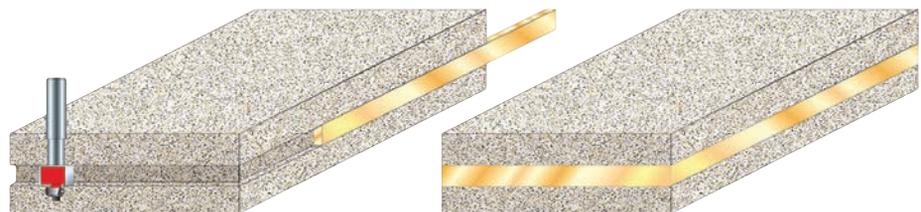
85-027



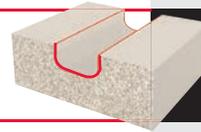
85-029



85-031

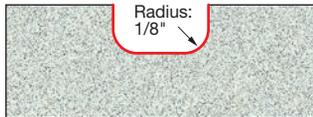


## Drainboard Bits

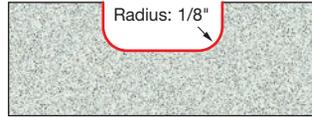


# SOLID SURFACE BITS

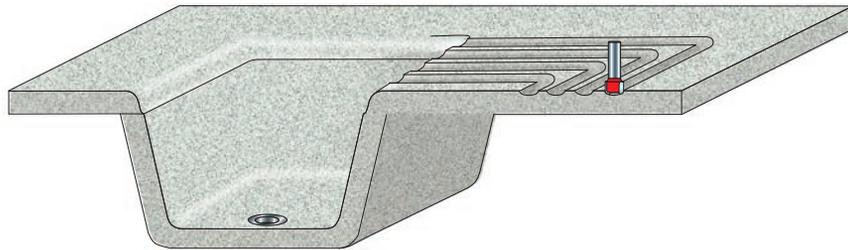
ITEM NUMBER	OVERALL DIA.	CARBIDE HEIGHT	LARGE RADIUS	SHANK DIA.	OVERALL LENGTH
85-050	1/2"	1/2"	1/8"	1/2"	2-7/8"
85-052	5/8"	1/2"	1/8"	1/2"	2-7/8"



85-050



85-052



### USE IN

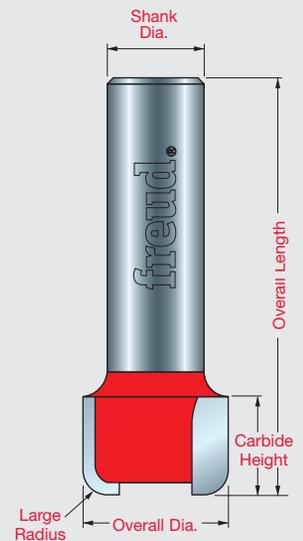


Hand Router

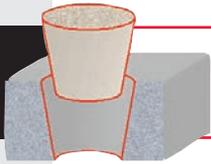
### APPLICATION

Routing grooves in drainboard countertops. Specially formulated carbide is ideal for fabricating solid surface materials.

ROUTER BITS



# SOLID SURFACE BITS



## Trimming, Repair and Bowl Removal Bits

### USE IN



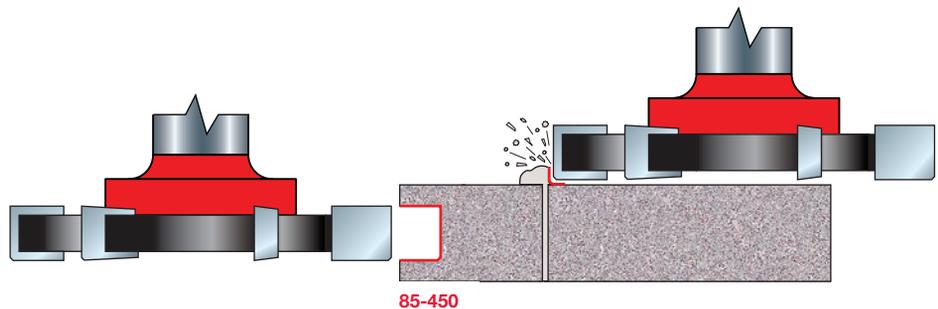
Hand Router

### APPLICATION

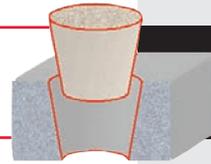
Trimming, repair and bowl removal. Specially formulated carbide is ideal for fabricating solid surface materials.

ROUTER BITS

ITEM NUMBER	DESCRIPTION	OVERALL DIA.	CARBIDE HEIGHT	ANGLE	SHANK DIA.	OVERALL LENGTH
<b>Trimming &amp; Grooving Bit, removes excess adhesive, cuts spline grooves</b>						
85-450	6 wing trim	2"	1/4"	-	1/2"	3-1/8"
<b>Solid Surface "Dovetail" Repair Set, produces matching bevel edges</b>						
85-300	Bevel Bit	1-1/8"	1"	12-1/2°	1/2"	3"
85-305	Dovetail Bit	1-1/8"	1"	13°	1/2"	3"
<b>4-Wing Bowl Removal Bits, remove damaged bowls from tops</b>						
85-465	1-1/8" cut depth, For all bowls except Corian®	3-5/8"	1/4"	-	1/2"	2-5/8"
85-470	15/16" cut depth, For Corian® bowls	3-3/16"	1/4"	-	1/2"	2-5/8"
<b>Plug Cutter Repair Set, use to repair holes and gouges in tops</b>						
85-175	Plug Cutter	2-1/4"	1-7/16"	-	1/2"	3-5/16"
	Tapered Hole Cutter	1-11/16"	1-7/16"	-	1/2"	3-5/16"



# Trimming, Repair and Bowl Removal Bits



## SOLID SURFACE BITS

CONTINUED

USE IN

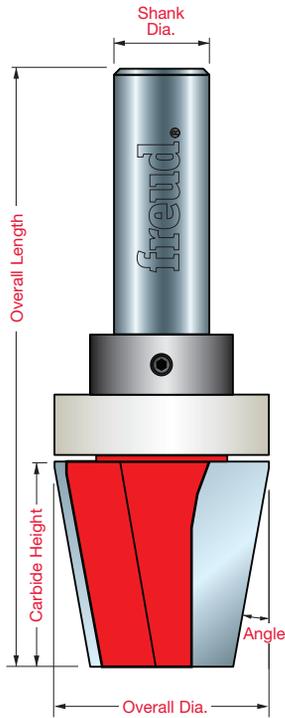


Hand Router

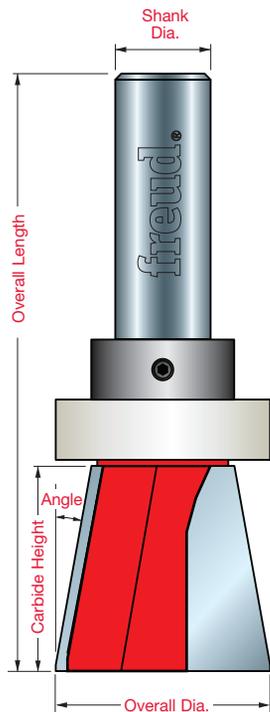
### APPLICATION

Trimming, repair and bowl removal. Specially formulated carbide is ideal for fabricating solid surface materials.

ROUTER BITS

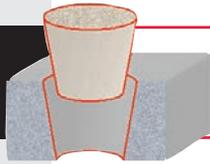


85-300



85-305

# SOLID SURFACE BITS



## Trimming, Repair and Bowl Removal Bits

CONTINUED

### USE IN

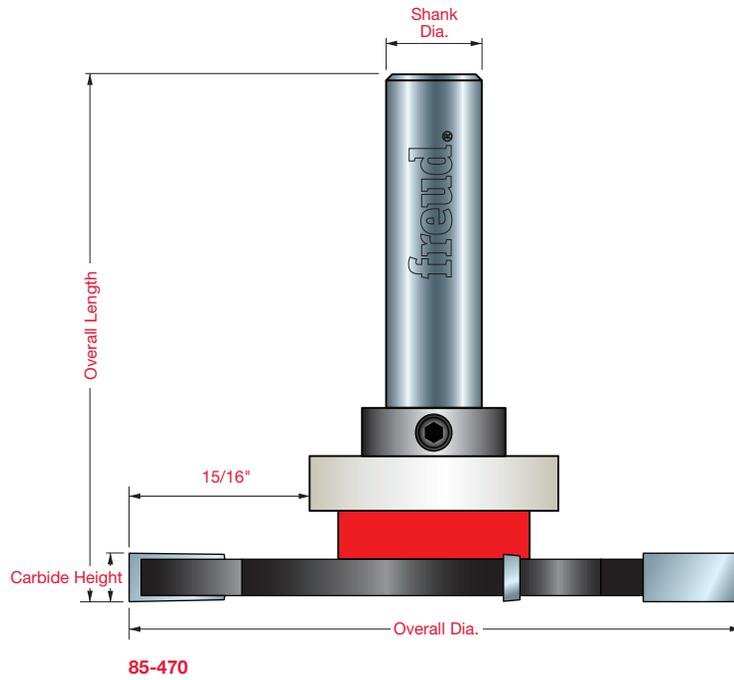


Hand Router

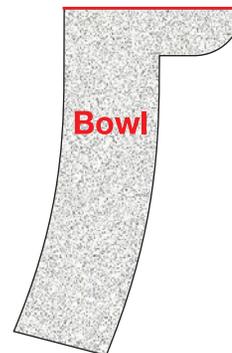
### APPLICATION

Trimming, repair and bowl removal. Specially formulated carbide is ideal for fabricating solid surface materials.

ROUTER BITS

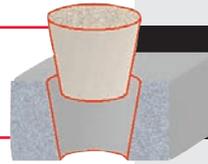


Bits #85-465 & #85-470 are used for removing mounted bowls as shown below.



85-465 / 85-470

# Trimming, Repair and Bowl Removal Bits



## SOLID SURFACE BITS

CONTINUED

USE IN



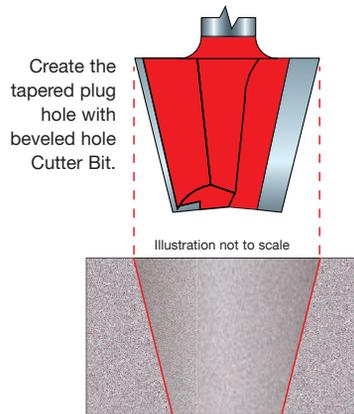
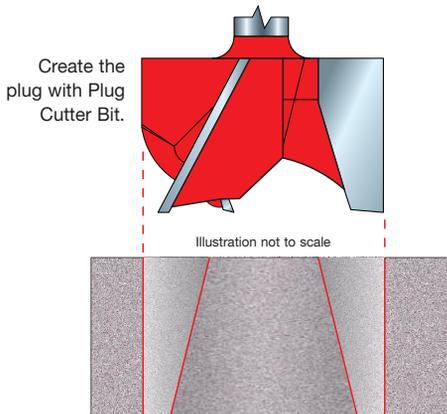
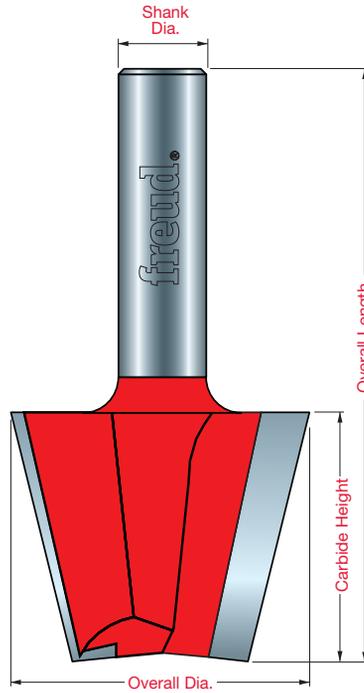
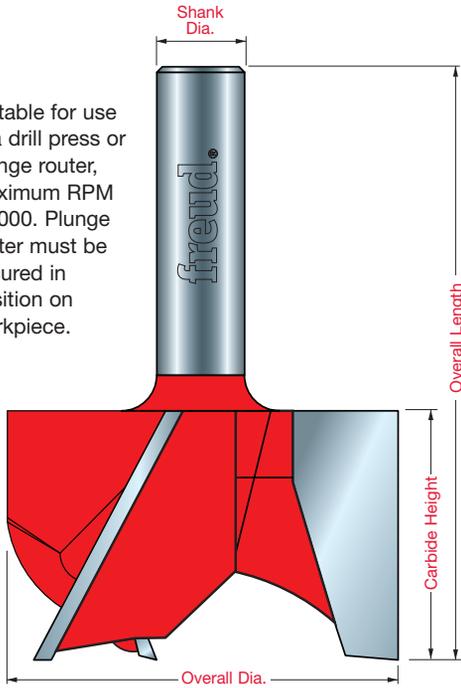
Hand Router

### APPLICATION

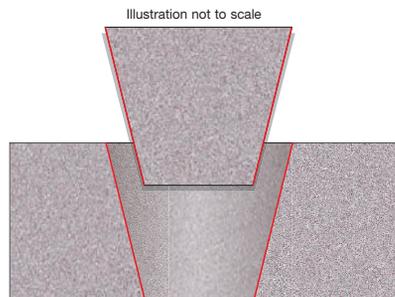
Trimming, repair and bowl removal. Specially formulated carbide is ideal for fabricating solid surface materials.

ROUTER BITS

Suitable for use in a drill press or plunge router, maximum RPM 12,000. Plunge router must be secured in position on workpiece.



Plug is ready for installation and finishing. Maximum plug diameter is 1-3/4".



85-175 2 Bit Set

# SOLID SURFACE BITS



## Solid Surface Edge Profile Bits

### USE IN



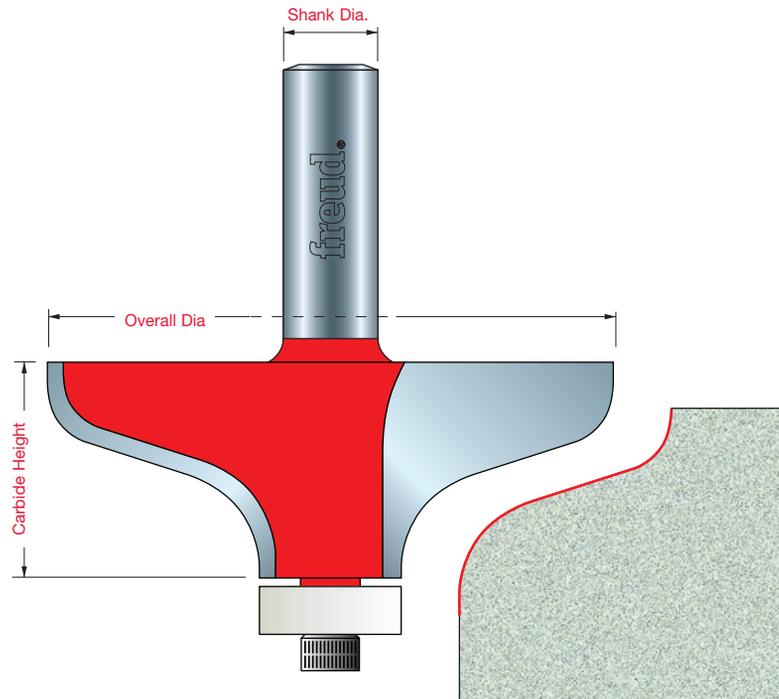
Hand Router

### APPLICATION

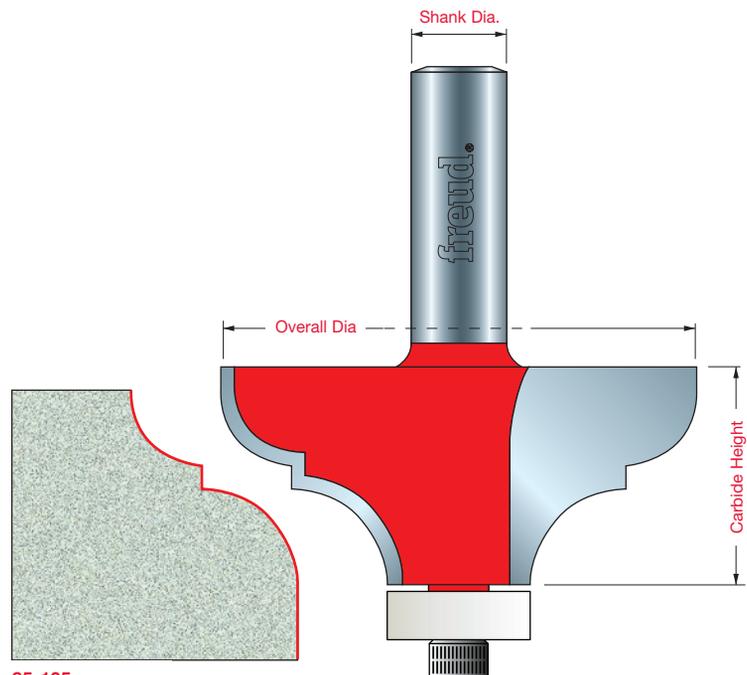
Decorative edges on all solid surface tops. Specially formulated carbide is ideal for fabricating solid surface materials.

ROUTER BITS

ITEM NUMBER	OVERALL DIA.	CARBIDE HEIGHT	SHANK DIA.	BEARING TYPE
85-101	3"	1-1/8"	1/2"	Synthetic
85-105	2-1/2"	1-1/8"	1/2"	Synthetic
85-108	2-1/2"	1-1/4"	1/2"	Steel
85-115	3-1/8"	1"	1/2"	Steel
85-118	1-11/16"	3/4"	1/2"	Steel
85-127	2-1/8"	1"	1/2"	Steel
85-131	2"	7/8"	1/2"	Steel
85-135	1-5/16"	1-1/16"	1/2"	Synthetic

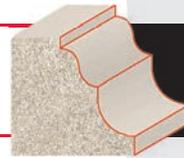


85-101



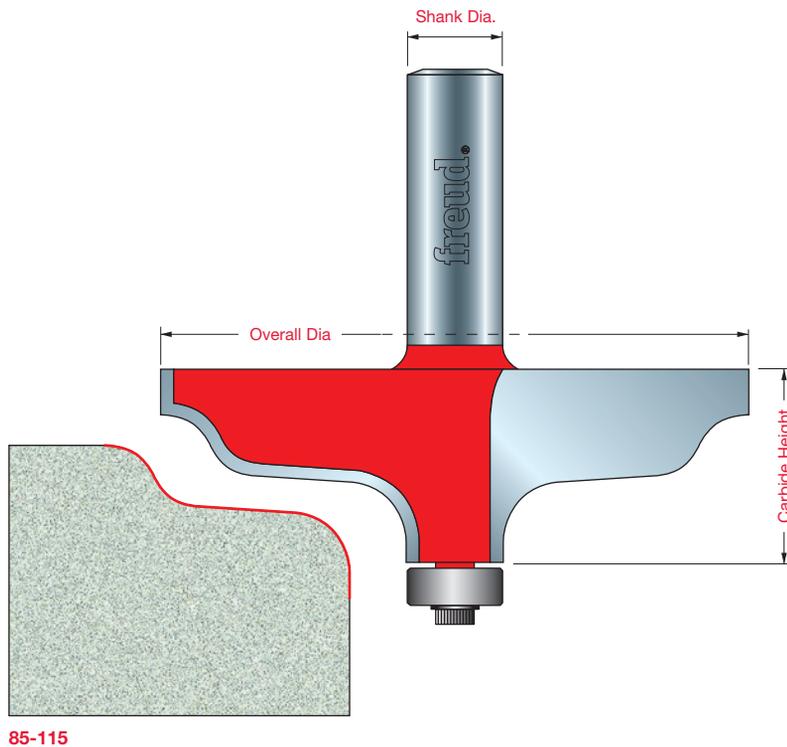
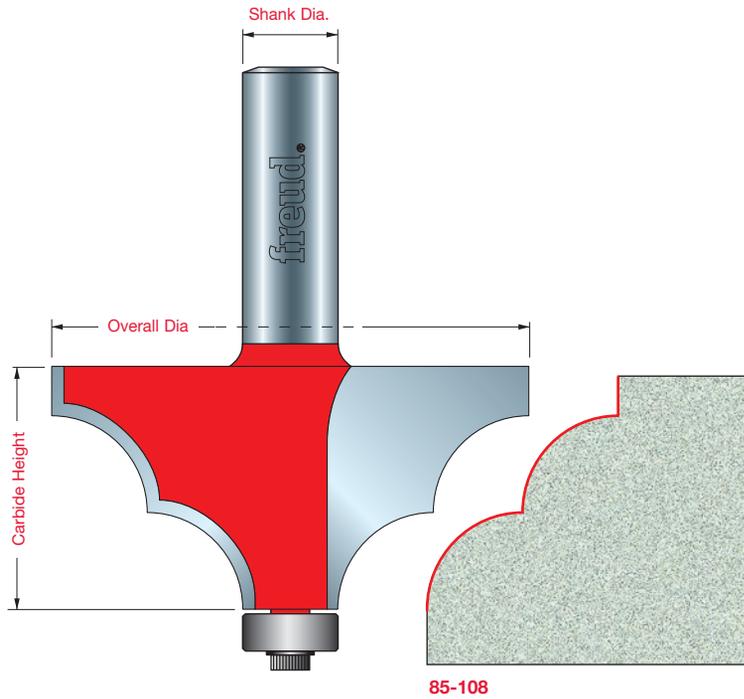
85-105

# Solid Surface Edge Profile Bits



## SOLID SURFACE BITS

CONTINUED



### USE IN



Hand Router

### APPLICATION

Decorative edges on all solid surface tops. Specially formulated carbide is ideal for fabricating solid surface materials.

ROUTER BITS

# SOLID SURFACE BITS



## Solid Surface Edge Profile Bits

CONTINUED

### USE IN

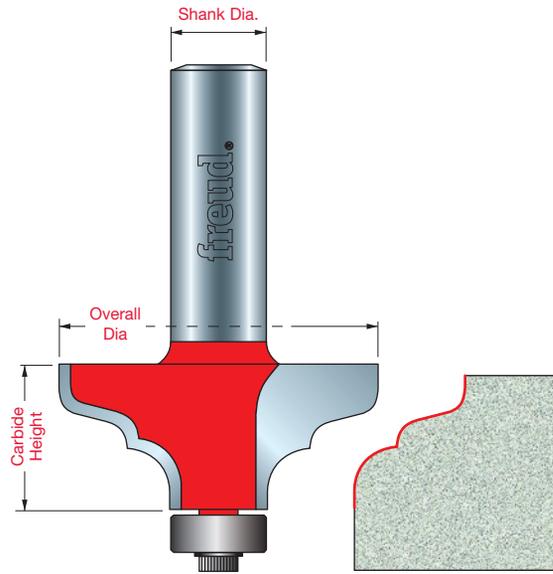


Hand Router

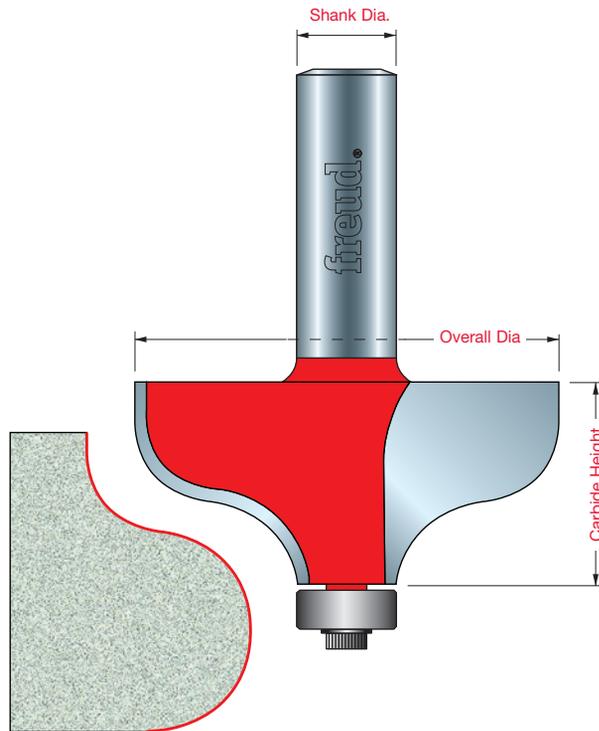
### APPLICATION

Decorative edges on all solid surface tops. Specially formulated carbide is ideal for fabricating solid surface materials.

ROUTER BITS

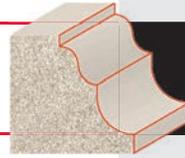


85-118



85-127  
(Profile shown requires two passes)

# Solid Surface Edge Profile Bits



# SOLID SURFACE BITS

CONTINUED

## USE IN

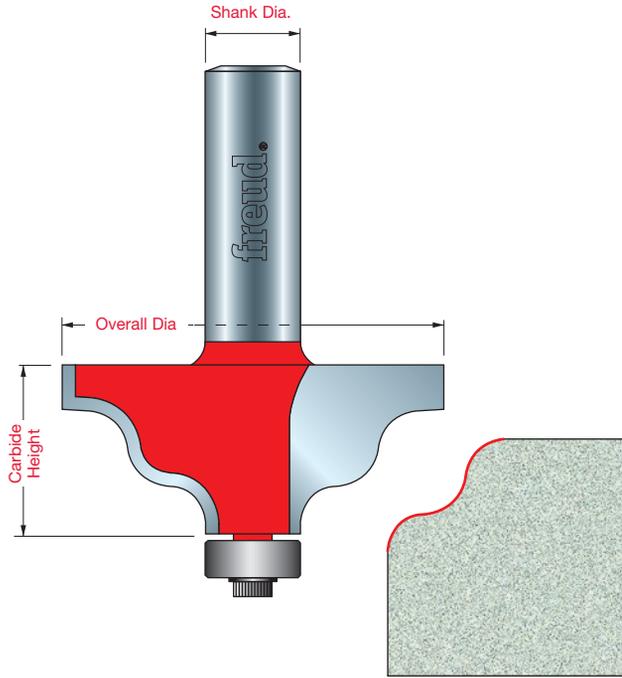


Hand Router

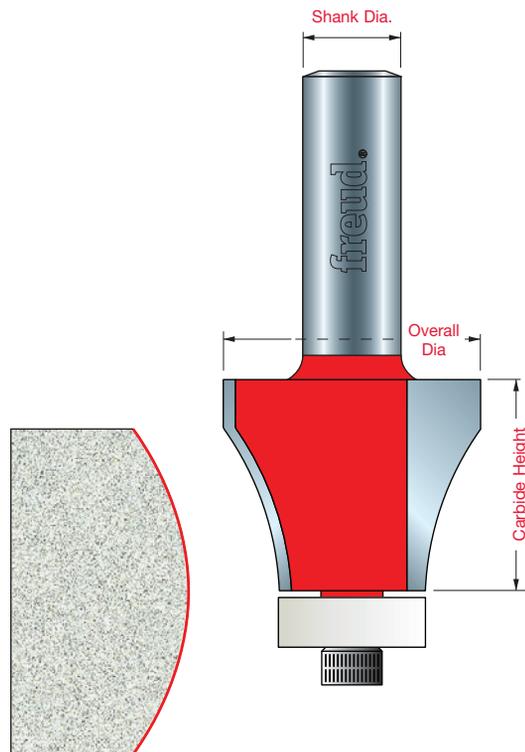
## APPLICATION

Decorative edges on all solid surface tops. Specially formulated carbide is ideal for fabricating solid surface materials.

ROUTER BITS



85-131



85-135  
(Profile shown  
requires two passes)

# DOOR & WINDOW BITS



## Window Sash & Rail Bits

### USE IN



Table Router

### APPLICATION

Two bits work together to produce a complete divided lite sash. 99-050 copes the rails, sash bars and muntins, while 99-051 cuts the profile on all components. Includes instruction manual.

### MATERIALS



Hardwood

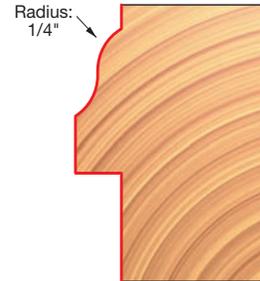
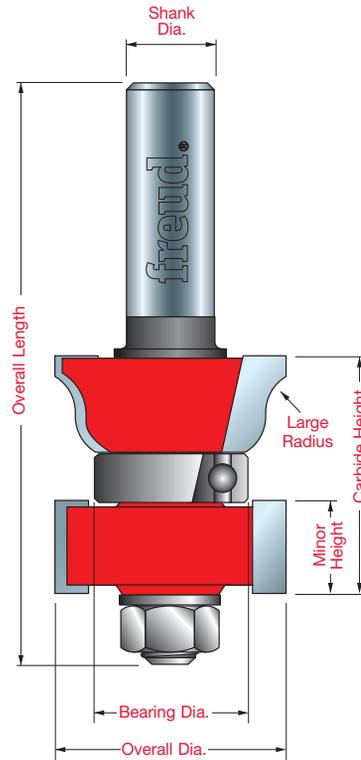
Softwood

MDF

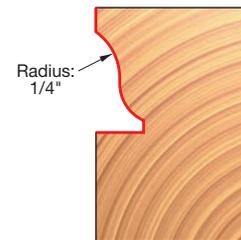
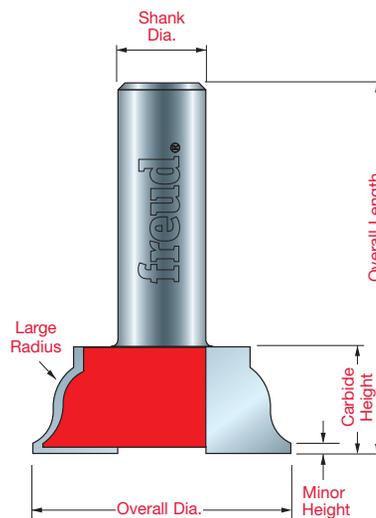
Plywood

ROUTER BITS

ITEM NUMBER	OVERALL DIA.	BEARING DIA.	CARBIDE HEIGHT	MINOR HEIGHT	LARGE RADIUS	SHANK DIA.	OVERALL LENGTH
99-051	1-11/32"	22mm	1-25/64"	17/32"	1/4"	1/2"	3-7/16"
99-050	1-1/2"	-	39/64"	1/16"	1/4"	1/2"	2-1/16"



99-051



99-050

# Glass Panel Cabinet Door Bit Set



## DOOR & WINDOW BITS

ITEM NUMBER	OVERALL DIA.	BEARING DIA.	CARBIDE HEIGHT	LARGE RADIUS	SMALL RADIUS	SHANK DIA.	OVERALL LENGTH
99-286	2"	16mm	1-3/32"	7/32"	11/64"	1/2"	3-1/8"

### Glass Panel Molding Spline

ITEM NUMBER	COLOR	ROLL LENGTH
GM005	Fruitwood (medium brown)	25'

### USE IN



Table Router

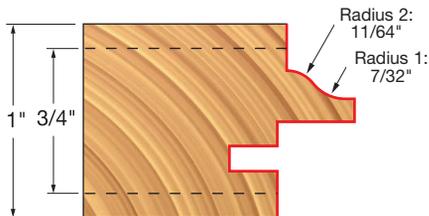
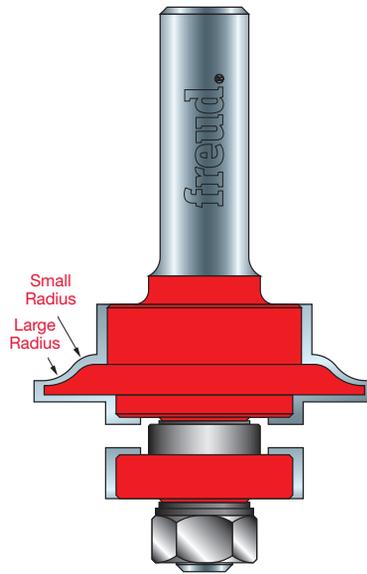
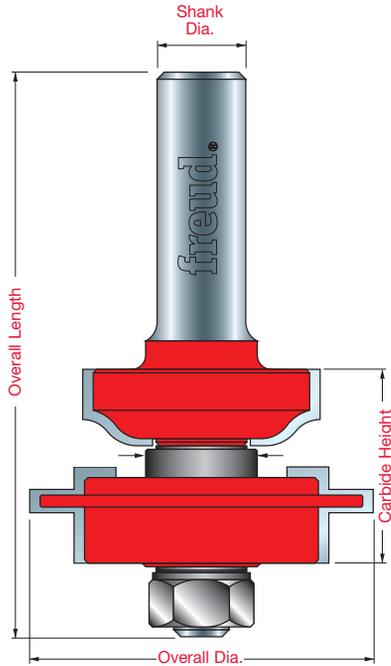
### APPLICATION

Creates top quality strong, tight-fitting glass panel door joints with ease and accuracy. Extra strong rail and stile joints with a unique lock in the stile and rail joint, plus significantly more gluing surface. Easy time saving set-up improves accuracy and increases profitability for the professional.

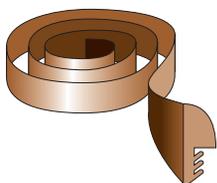
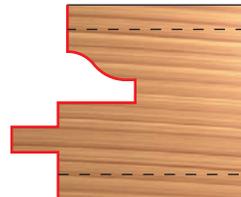
### MATERIALS



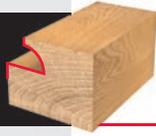
ROUTER BITS



99-286



# DOOR & WINDOW BITS



## Recoverable Bead Glass Door Bit Sets

### USE IN



Table Router

### APPLICATION

Creates glass doors that look equally good from the front and back. Each bit produces a unique profile on the front of the door and a matching profile on the back that can be removed with a 1/8" kerf saw blade, then miter cut to make a bead to secure the glass panel.

### MATERIALS



Hardwood

Softwood

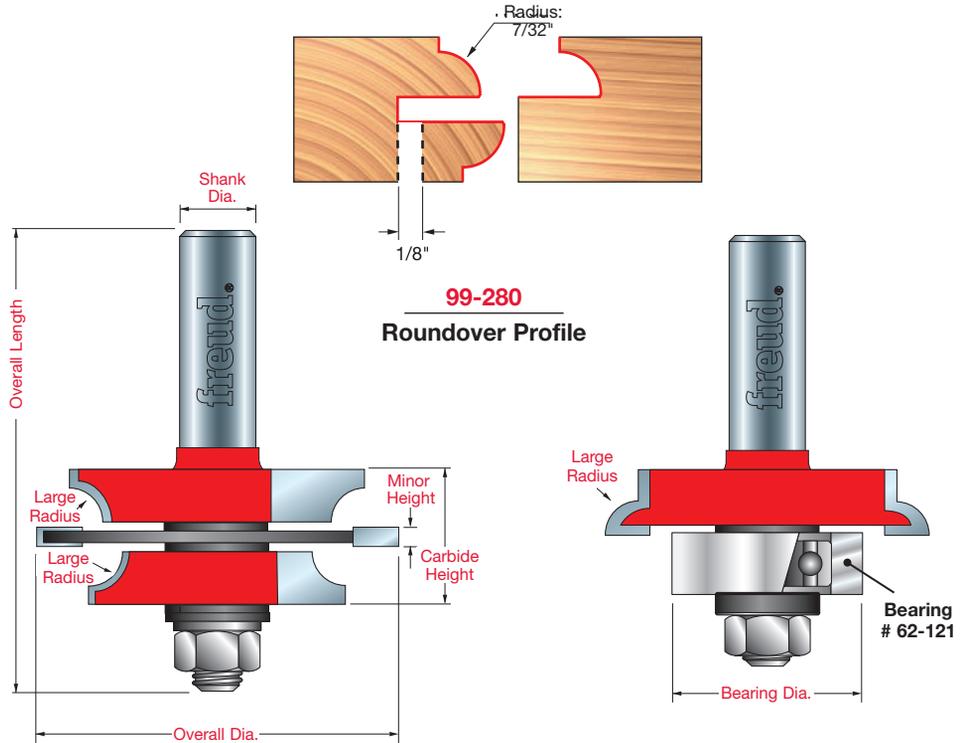
MDF

Plywood

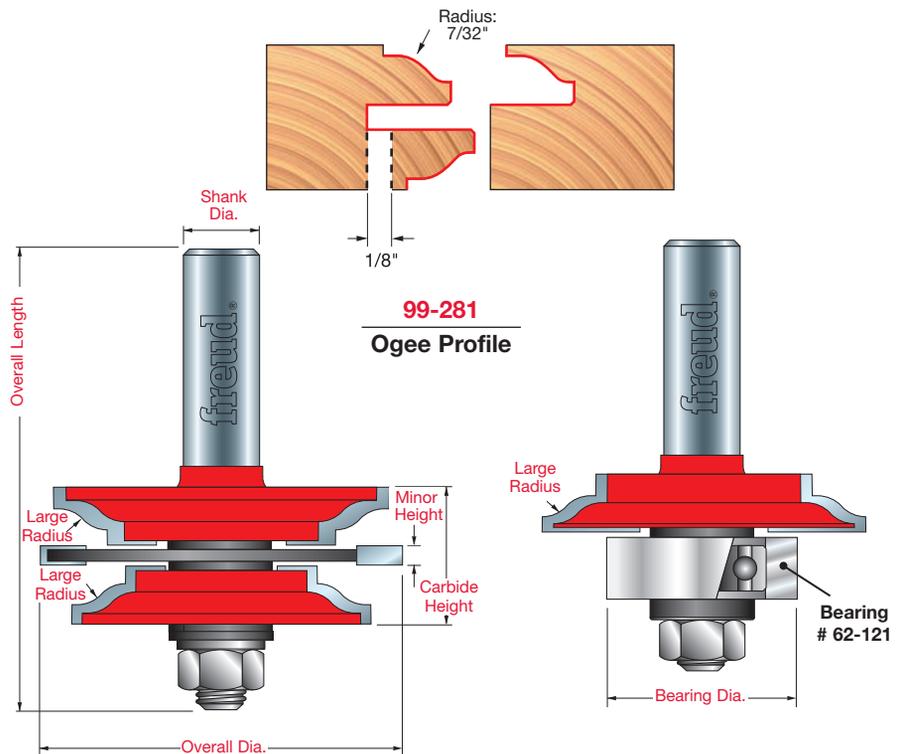
ROUTER BITS

ITEM NUMBER	OVERALL DIA.	BEARING DIA.	CARBIDE HEIGHT	MINOR HEIGHT	LARGE RADIUS	SHANK DIA.	OVERALL LENGTH
99-280	2-3/8"	1-1/4"	7/8"	1/8"	7/32"	1/2"	3"
99-281	2-3/8"	1-1/4"	7/8"	1/8"	7/32"	1/2"	3"
99-283	2-3/8"	1-1/4"	7/8"	1/8"	15/64"	1/2"	3"

For bearing replacement, use specialty sleeve bearing item # 62-121



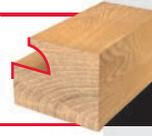
**99-280**  
Roundover Profile



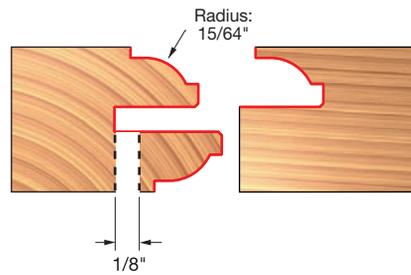
**99-281**  
Ogee Profile

# Recoverable Bead Glass Door Bit Sets

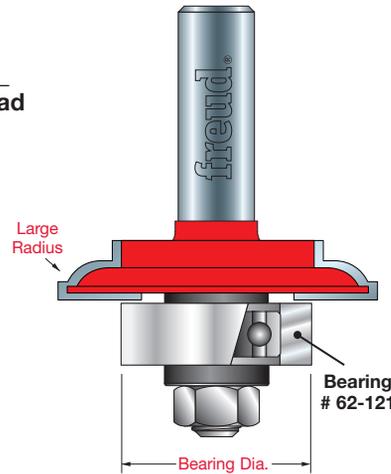
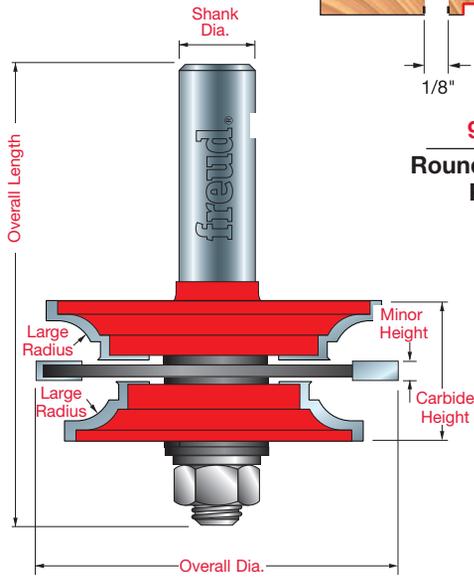
# DOOR & WINDOW BITS



CONTINUED



**99-283**  
**Roundover Bead Profile**



## USE IN



Table Router

## APPLICATION

Creates glass doors that look equally good from the front and back. Each bit produces a unique profile on the front of the door and a matching profile on the back that can be removed with a 1/8" kerf saw blade, then miter cut to make a bead to secure the glass panel.

## MATERIALS



ROUTER BITS

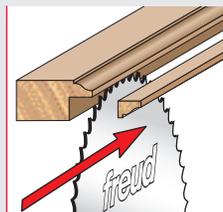
## STEPS TO PERFECT GLASS CABINET DOORS

1



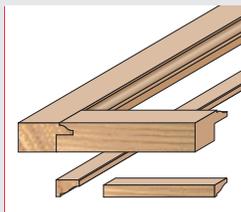
Cut profiles on stiles and rails using the Freud Recoverable Bead Glass Door Bit Set

2



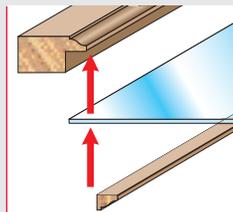
Remove beads with 1/8" kerf saw blade (10" Freud LM72 or LM74 Series recommended)

3



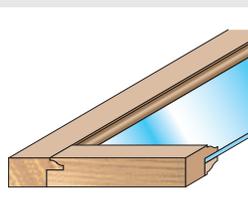
Assemble stiles and rails. Miter cut beads to size

4



Install 1/8" glass and secure with beads

5



Now you have cabinet doors that look as good open as they do closed

# DOOR & WINDOW BITS



## Divided Lite Cabinet Door Bit Set

### USE IN



Table Router

### APPLICATION

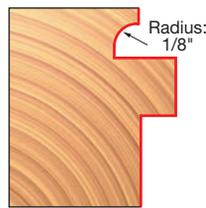
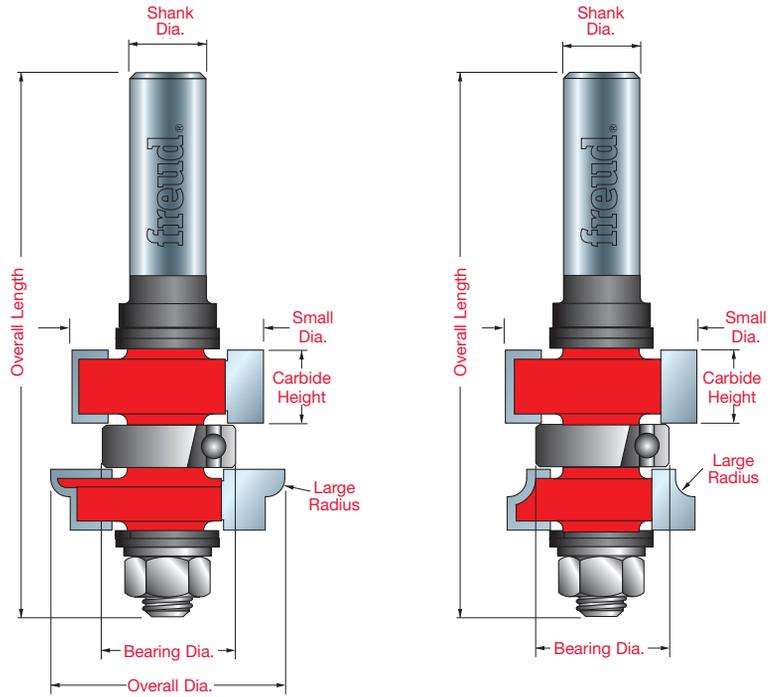
Build beautiful glass panel doors with classic multiple pane styling. The perfectly matched bits mill profiles for stiles, rails, mullions and muntins that allow you to build strong mortise and tenon joints.

### MATERIALS

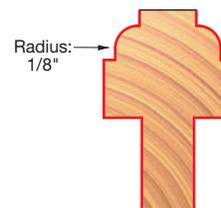


ROUTER BITS

ITEM NUMBER	OVERALL DIA.	BEARING DIA.	SMALL DIA.	CARBIDE HEIGHT	LARGE RADIUS	SHANK DIA.	OVERALL LENGTH
99-270	1-17/32"	22mm	1-1/4"	1-1/8"	1/8"	1/2"	3-7/16"



99-270



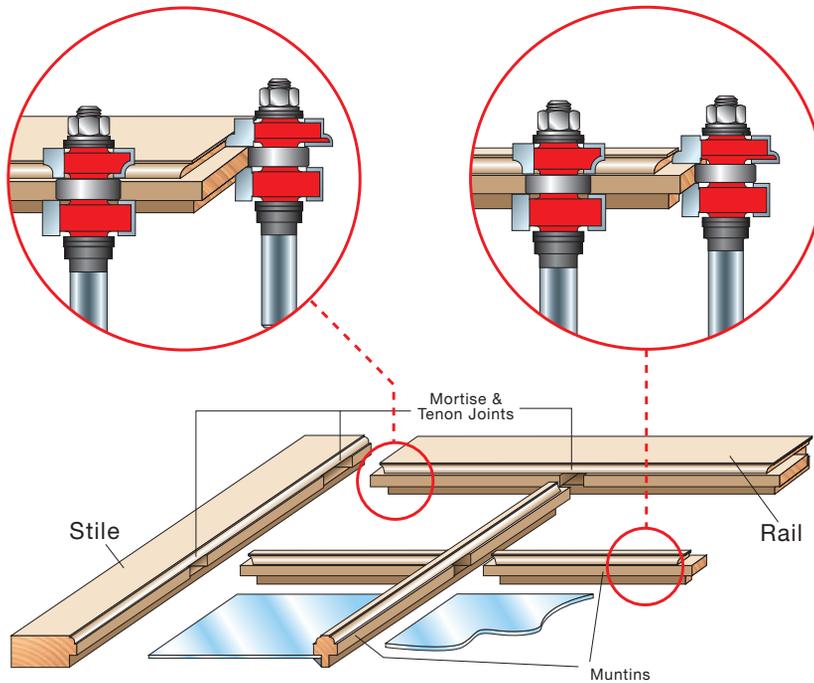
99-270

# Divided Lite Cabinet Door Bit Set



## DOOR & WINDOW BITS

CONTINUED



### USE IN



Table Router

### APPLICATION

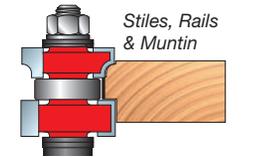
Build beautiful glass panel doors with classic multiple pane styling. The perfectly matched bits mill profiles for stiles, rails, mullions and muntins that allow you to build strong mortise and tenon joints.

### MATERIALS

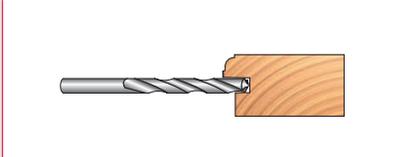


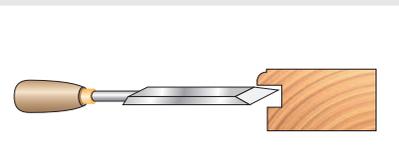
ROUTER BITS

### STEPS TO PRODUCE A DIVIDED LITE DOOR

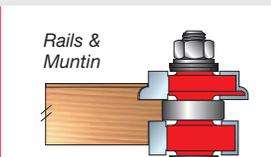
- 1** 

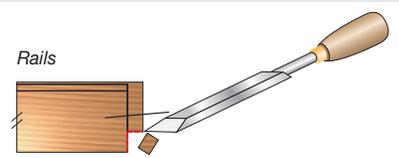
Rout bead profile

**2** 

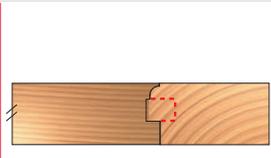
Drill starter hole for mortise
- 3** 

Chisel out drilled holes to complete mortise

**4** 

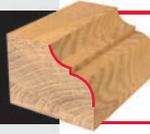
Rout Cope profile
- 5** 

Trim tenon width (rails only) to match mortise in stiles

**6** 

Fit the mortise and tenon cuts together

# DOOR & WINDOW BITS



## Rail & Stile Profile Bits

### USE IN



Table Router Hand Router

### APPLICATION

Creates rail and stile doors matched reverse profiles. 99-060 and 99-061 bits cope and stick cut the rails and stiles, and also can be used alone to form a matching edge profile. 99-062 cuts the panel slot and the back of the tongue on the coped piece.

### MATERIALS



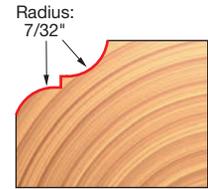
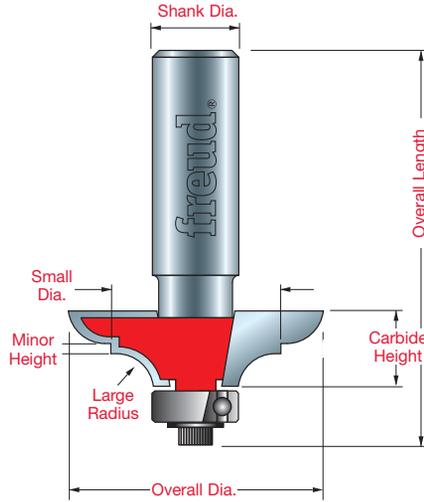
Hardwood Softwood



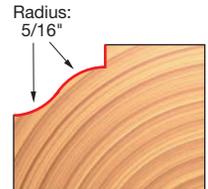
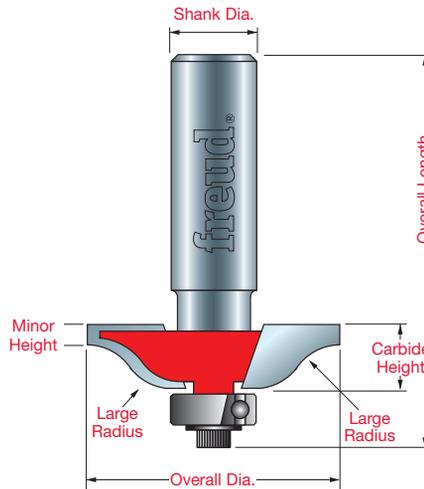
MDF

ROUTER BITS

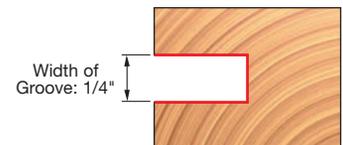
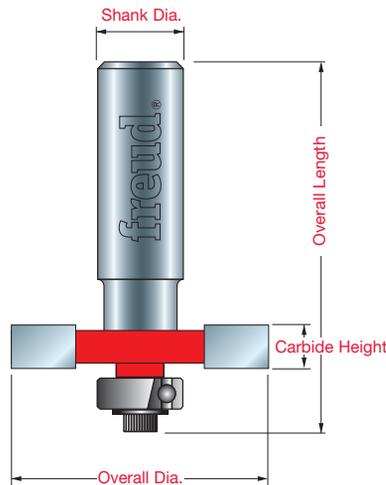
ITEM NUMBER	OVERALL DIA.	SMALL DIA.	CARBIDE HEIGHT	MINOR HEIGHT	LARGE RADIUS	SHANK DIA.	OVERALL LENGTH
99-060	1-1/2"	1"	7/16"	1/16"	7/32"	1/2"	2-1/4"
99-061	1-1/2"	-	3/8"	1/8"	5/16"	1/2"	2-1/4"
99-062	1-1/2"	-	1/4"	-	-	1/2"	2-1/8"



99-060

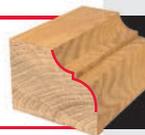


99-061



99-062

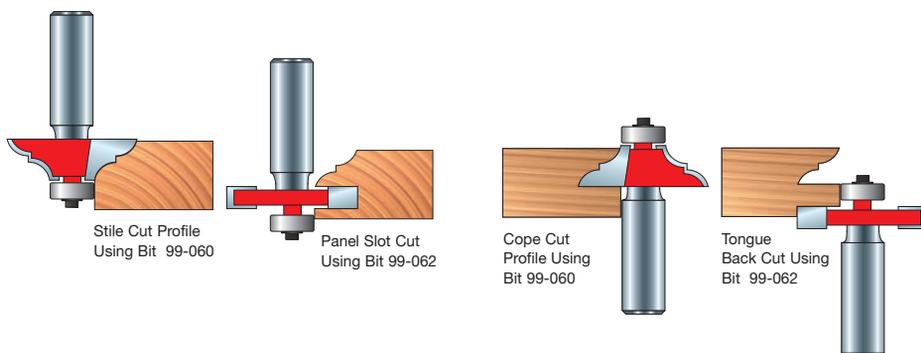
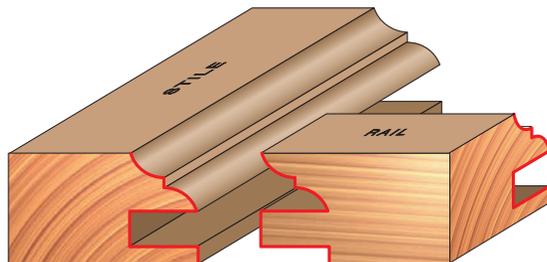
## Rail & Stile Profile Bits



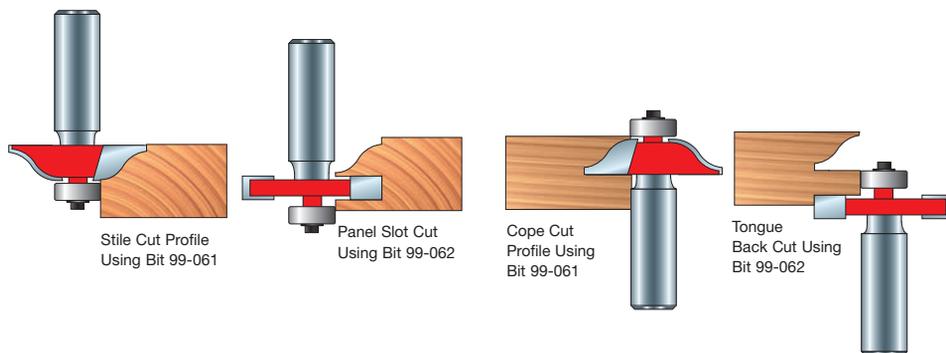
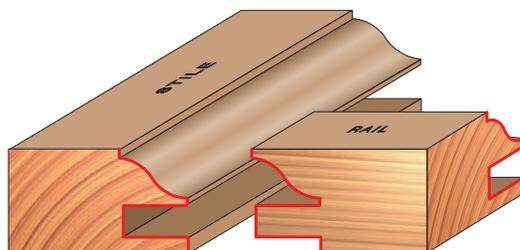
# DOOR & WINDOW BITS

CONTINUED

### 99-060 & 99-062



### 99-061 & 99-062



### USE IN



Table Router Hand Router

### APPLICATION

Creates rail and stile doors matched reverse profiles. 99-060 and 99-061 bits cope and stick cut the rails and stiles, and also can be used alone to form a matching edge profile. 99-062 cuts the panel slot and the back of the tongue on the coped piece.

### MATERIALS



ROUTER BITS

# DOOR & WINDOW BITS



## Premier Adjustable Rail & Stile Bit Sets

### USE IN

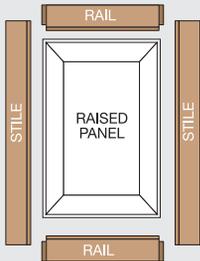


Table Router

### APPLICATION

Produces perfect fitting rail and stile doors from 5/8" to 1-1/4" stock. Create extended tenons for extra door joint strength (patented solution). Adjust groove width to suit different panel thicknesses for rattle free plywood panels or solid wood raised panels. Add an optional cutter to your bits to create glass panel or screen doors. Add multiple cutters to create double sided profiles in thicker stock material. Produce flawless raised panel doors when you combine these bits with one of Freud's Raised Panel Bits. Shims are included.

### MATERIALS



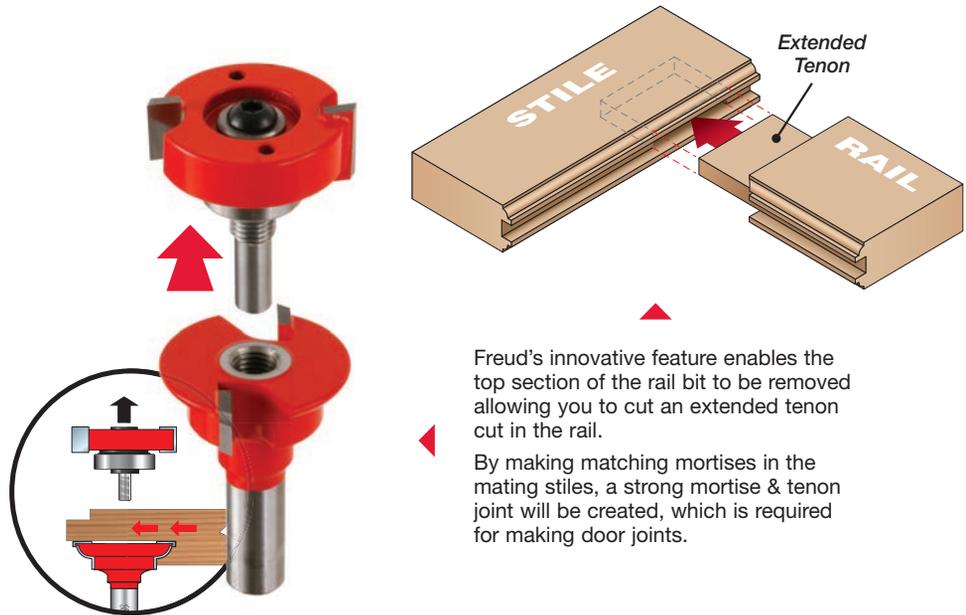
ITEM NUMBER	DESCRIPTION	OVERALL DIA.	LARGE RADIUS	SHANK DIA.	OVERALL LENGTH	PAGE NUMBER
99-760	Round Over	1-11/16"	7/32"	1/2"	3-3/4"	214
99-761	Ogee	1-11/16"	13/64"	1/2"	3-3/4"	215
99-762	Shaker (Bevel)	1-11/16"	-	1/2"	3-3/4"	216
99-763	Round Over Bead	1-11/16"	9/32"	1/2"	3-5/8"	217
99-764	Bevel	1-11/16"	-	1/2"	3-3/4"	218

#### Optional Double Sided Profile Cutters

99-860	Round Over	1-11/16"	7/32"	-	3-13/16"	214
99-861	Ogee	1-11/16"	13/64"	-	3-13/16"	215
99-862	Shaker (Bevel)	1-11/16"	-	-	3-13/16"	216
99-863	Round Over Bead	1-11/16"	9/32"	-	3-13/16"	217
99-864	Bevel	1-11/16"	-	-	3-13/16"	218

#### Optional Glass/Screen Panel Cutter

54-760	Flush Cutter	1-11/16"	-	-	-	214
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Freud's innovative feature enables the top section of the rail bit to be removed allowing you to cut an extended tenon cut in the rail.

By making matching mortises in the mating stiles, a strong mortise & tenon joint will be created, which is required for making door joints.

### THIS SYSTEM OFFERS UNMATCHED VERSATILITY IN CABINET DOOR MAKING WITH



Extended Tenons



Adjustable Grooves



Varying Stock Thicknesses



Glass/Screen Panels



Double Sided Profiles

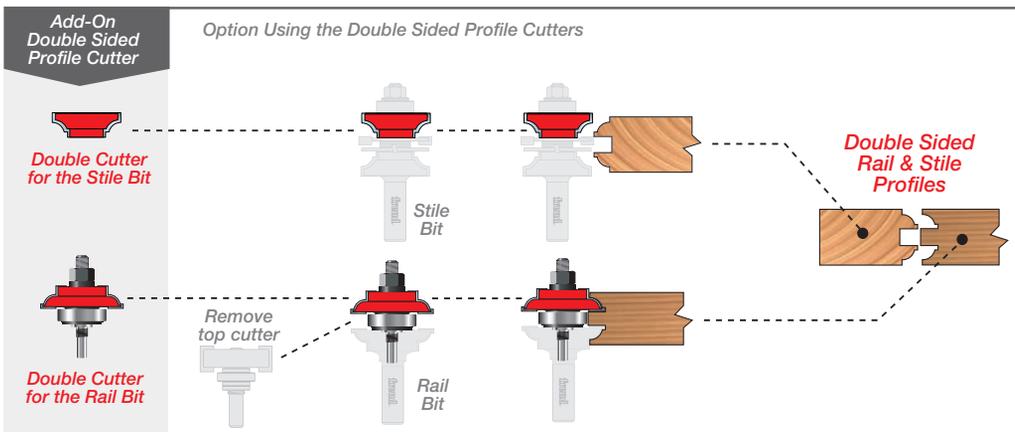
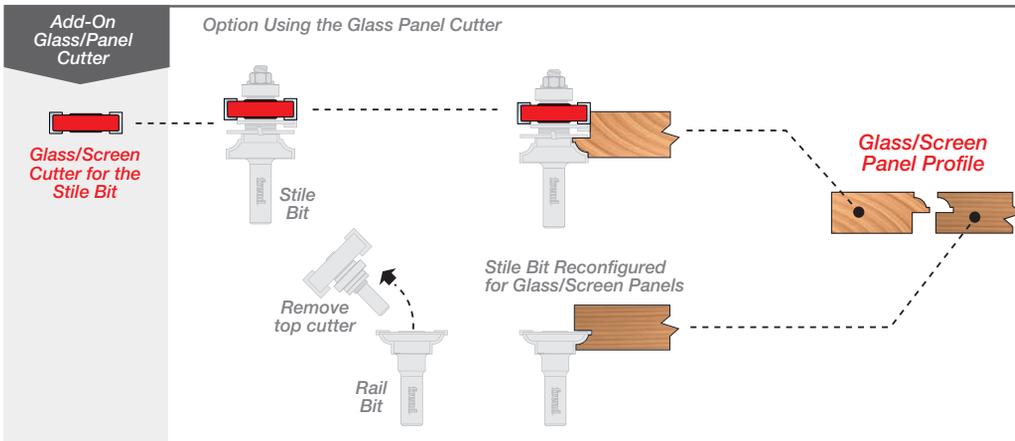
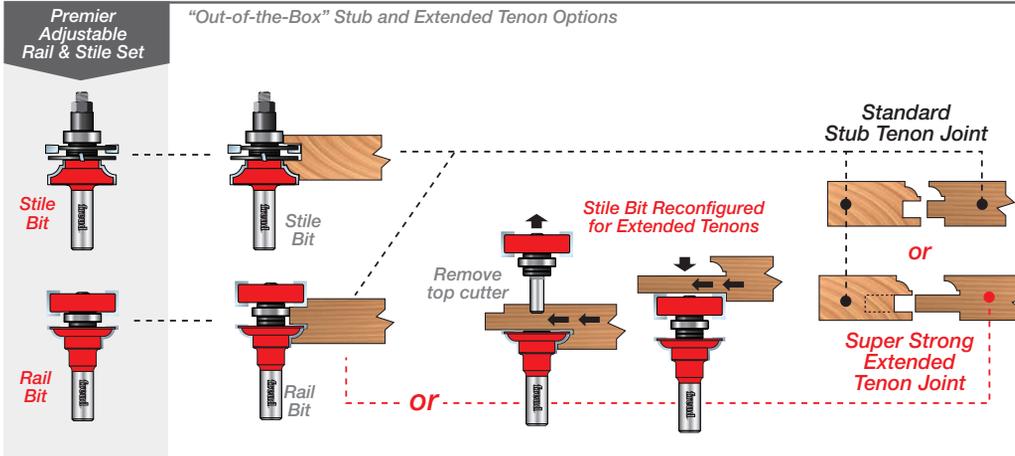
# Premier Adjustable Rail & Stile Bit Sets



# DOOR & WINDOW BITS

CONTINUED

## Options



## USE IN



Table Router

## APPLICATION

Produces perfect fitting rail and stile doors from 5/8" to 1-1/4" stock. Create extended tenons for extra door joint strength (patented solution). Adjust groove width to suit different panel thicknesses for rattle free plywood panels or solid wood raised panels. Add an optional cutter to your bits to create glass panel or screen doors. Add multiple cutters to create double sided profiles in thicker stock material. Produce flawless raised panel doors when you combine these bits with one of Freud's Raised Panel Bits. Shims are included.

## MATERIALS



ROUTER BITS

# DOOR & WINDOW BITS



## Premier Adjustable Rail & Stile Bit Sets

CONTINUED

### USE IN



Table Router

### APPLICATION

Produces perfect fitting rail and stile doors from 5/8" to 1-1/4" stock

### MATERIALS

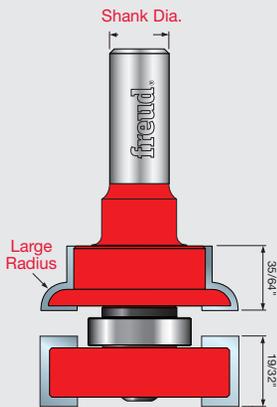
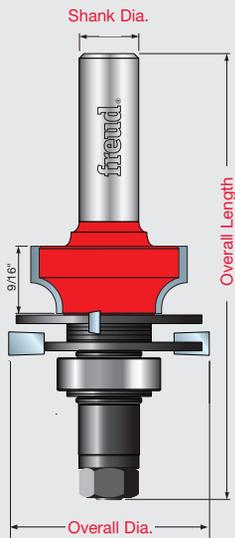


Hardwood

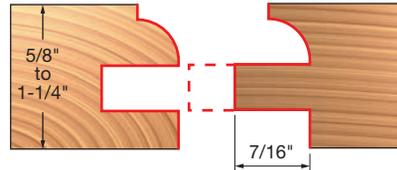
Softwood

MDF

Plywood



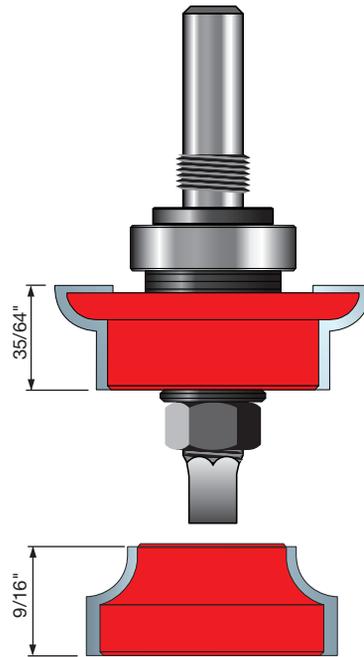
### 99-760 ROUND OVER



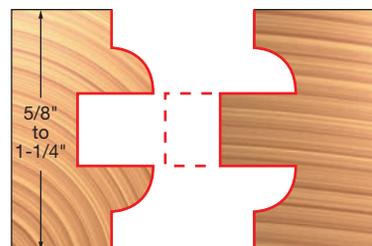
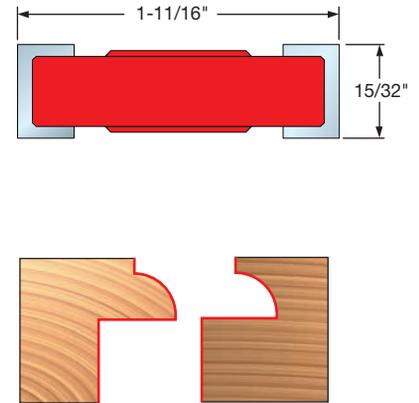
Stub & Extended Tenons

### OPTIONAL CUTTER ADD-ONS

#### 99-860 for creating double sided profiles



#### 54-760 for creating glass/screen panel doors



# Premier Adjustable Rail & Stile Bit Sets

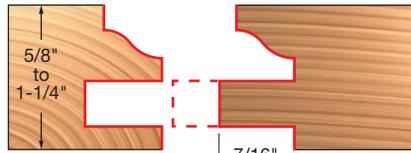


# DOOR & WINDOW BITS

CONTINUED

**99-761**

**OGEE**

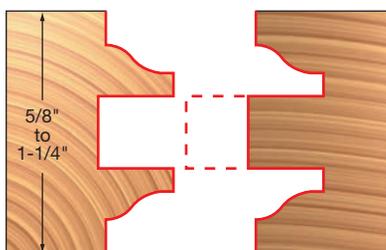
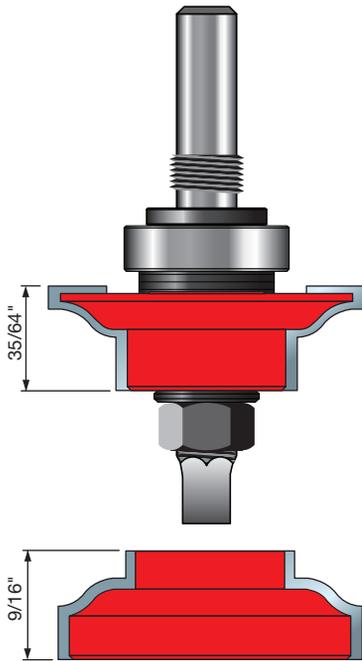


#9  
Stub & Extended Tenons

## OPTIONAL CUTTER ADD-ONS

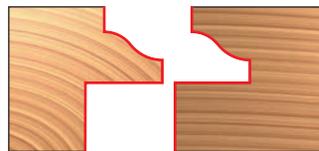
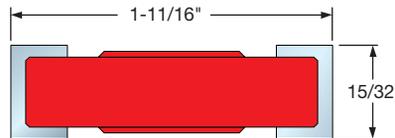
**99-861**

for creating  
double sided profiles



**54-760**

for creating  
glass/screen panel  
doors



## USE IN



Table Router

## APPLICATION

Produces perfect fitting rail and stile doors from 5/8" to 1-1/4" stock

## MATERIALS



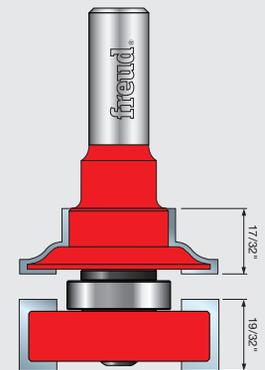
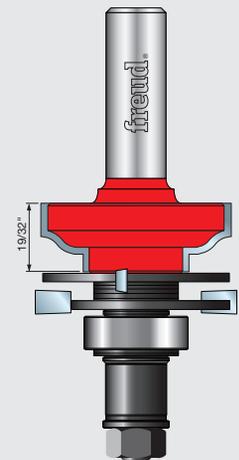
Hardwood

Softwood

MDF

Plywood

ROUTER BITS



# DOOR & WINDOW BITS



## Premier Adjustable Rail & Stile Bit Sets

CONTINUED

### USE IN



Table Router

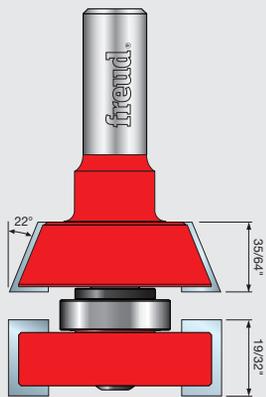
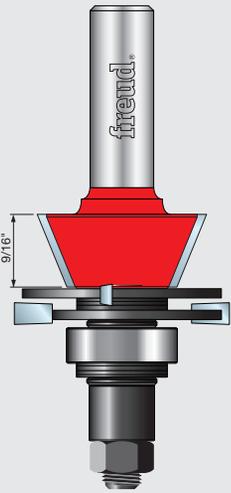
### APPLICATION

Produces perfect fitting rail and stile doors from 5/8" to 1-1/4" stock

### MATERIALS

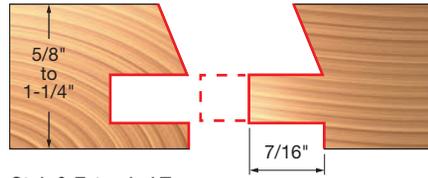


ROUTER BITS



99-762

SHAKER

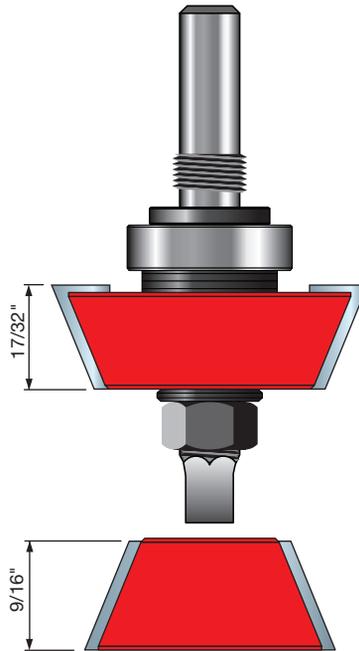


Stub & Extended Tenons

### OPTIONAL CUTTER ADD-ONS

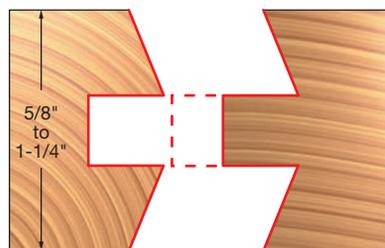
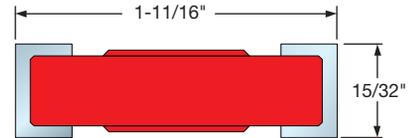
99-862

for creating double sided profiles



54-760

for creating glass/screen panel doors



# Premier Adjustable Rail & Stile Bit Sets

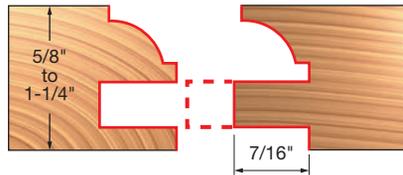


# DOOR & WINDOW BITS

CONTINUED

**99-763**

## ROUND OVER BEAD

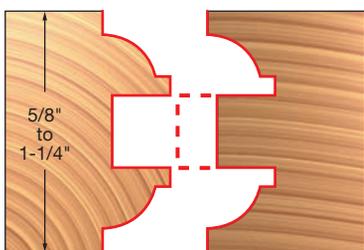
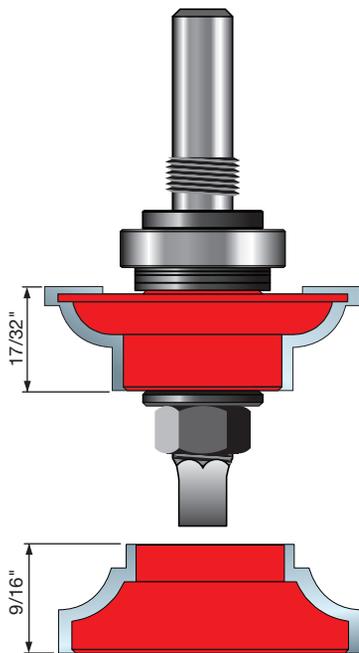


Stub & Extended Tenons

## OPTIONAL CUTTER ADD-ONS

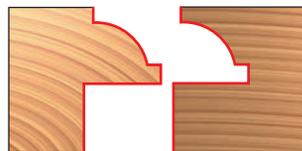
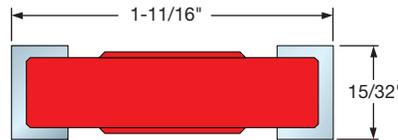
**99-863**

for creating double sided profiles



**54-760**

for creating glass/screen panel doors



## USE IN

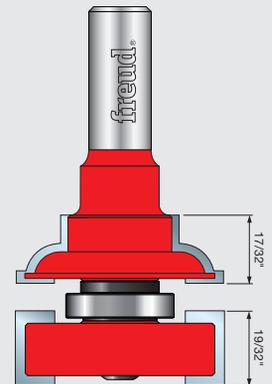
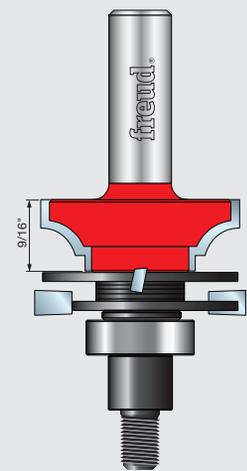


Table Router

## APPLICATION

Produces perfect fitting rail and stile doors from 5/8" to 1-1/4" stock

## MATERIALS



ROUTER BITS

# DOOR & WINDOW BITS



## Premier Adjustable Rail & Stile Bit Sets

CONTINUED

### USE IN



Table Router

### APPLICATION

Produces perfect fitting rail and stile doors from 5/8" to 1-1/4" stock

### MATERIALS



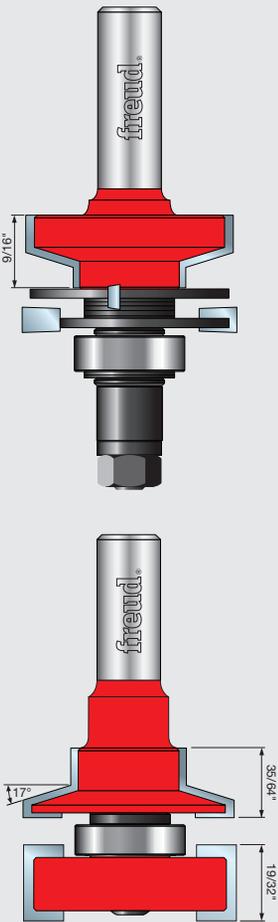
Hardwood

Softwood

MDF

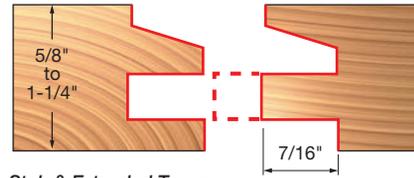
Plywood

ROUTER BITS



### 99-764

#### BEVEL

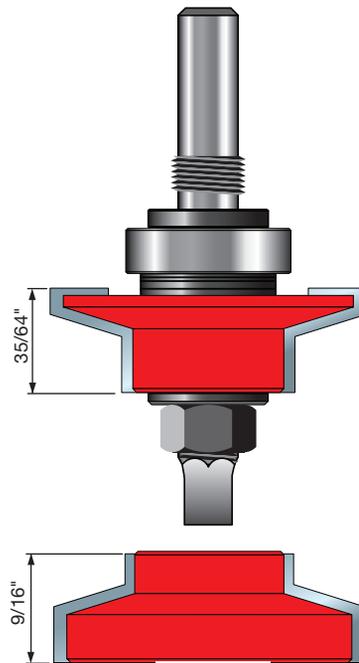


Stub & Extended Tenons

### OPTIONAL CUTTER ADD-ONS

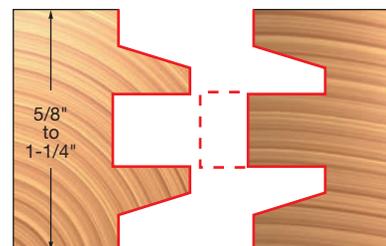
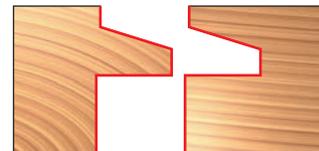
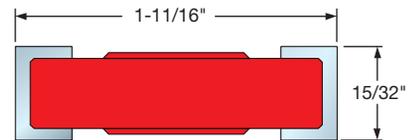
#### 99-864

for creating double sided profiles



#### 54-760

for creating glass/screen panel doors



# One-Piece Rail & Stile Bits



# DOOR & WINDOW BITS

ITEM NUMBER	OVERALL DIA.	SMALL DIA.	CARBIDE HEIGHT	MINOR HEIGHT	LARGE RADIUS	SMALL RADIUS	SHANK DIA.	OVERALL LENGTH
99-290	2"	1-1/4"	1-9/32"	15/64"	7/32"	-	1/2"	4-3/32"
99-291	2"	1-1/4"	1-9/32"	15/64"	7/32"	11/64"	1/2"	4-3/32"
99-293	2"	1-1/4"	1-9/32"	15/64"	9/32"	-	1/2"	4-3/32"

## USE IN



Table Router

## APPLICATION

An efficient method for creating beautiful cabinet doors without having to reconfigure or change cutters or fence settings. Cuts all frame members face down so variations in stock thickness are not a problem.

## MATERIALS



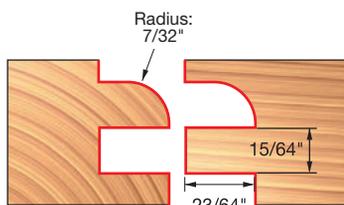
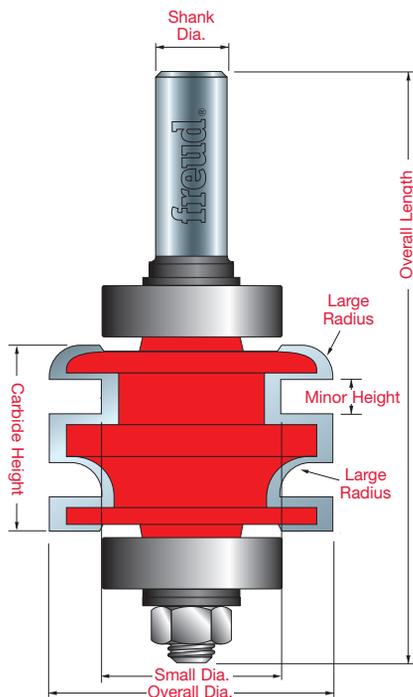
Hardwood

Softwood

MDF

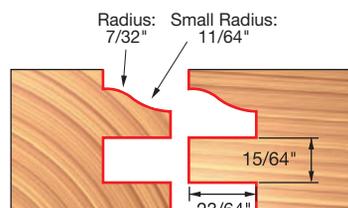
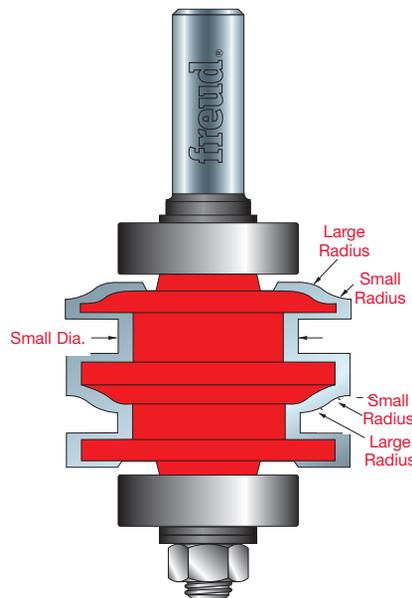
Plywood

ROUTER BITS



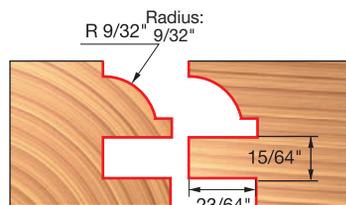
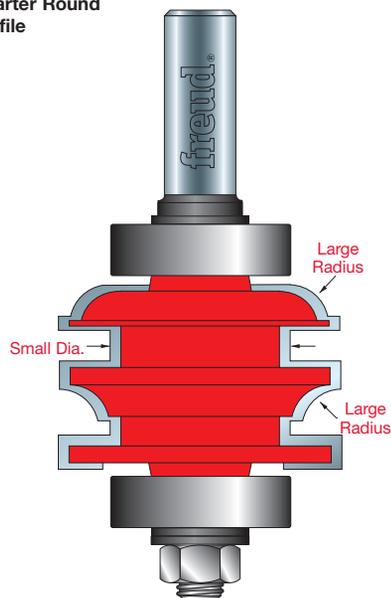
99-290

Quarter Round Profile



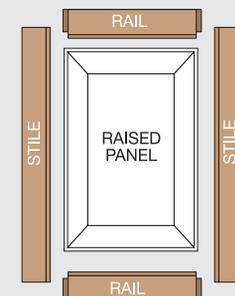
99-291

Ogee Profile

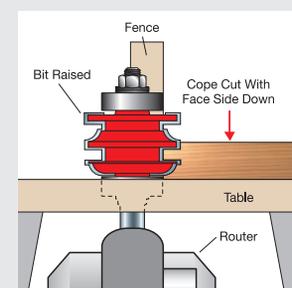
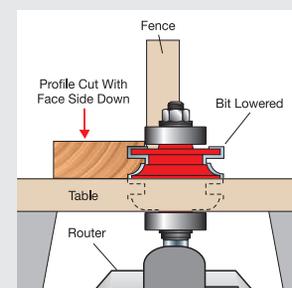


99-293

Classical Bead Profile.



## SET UP



# DOOR & WINDOW BITS



## Entry & Interior Door Router Bit System

### USE IN



Table Router

### APPLICATION

Build entry and interior doors with true mortise and tenon construction for rock-solid joints that last a lifetime. Comes fully assembled to mill perfect 1-3/4" rail and stile joints for exterior doors. To mill 1-3/8" interior door joints, simply remove the spacers from each bit. To mill a tenon of virtually any length, the top cutter and bearing of the rail bit is simply unscrewed from the lower cutter and shank from the router or changing the height of the cutter.

### MATERIALS

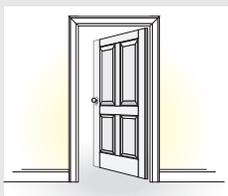


Hardwood

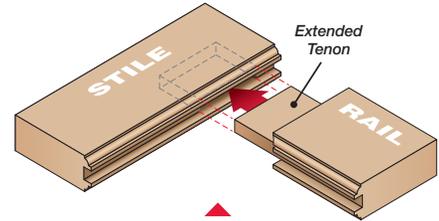
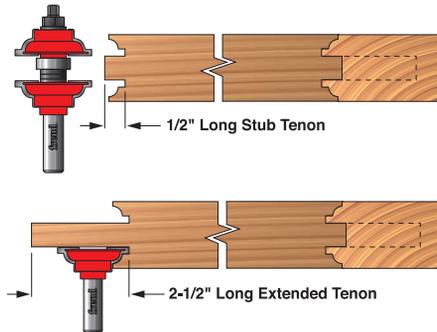
Softwood

MDF

Plywood

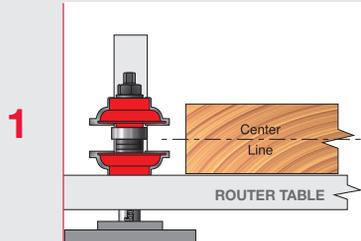


ITEM NUMBER	PROFILE	OVERALL DIA.	BEARING DIA.	CARBIDE HEIGHT	SHANK DIA.	OVERALL LENGTH
<b>2 Piece Entry &amp; Interior Door Bit Sets For 1-3/8" &amp; 1-3/4" Stock</b>						
99-267	Beading	1-7/8"	7/8"	1-7/8"	1/2"	4-1/8"
99-268	Ogee	1-7/8"	7/8"	1-7/8"	1/2"	4-1/8"
99-269	Cove & Bead	1-7/8"	7/8"	1-7/8"	1/2"	4-1/8"
<b>2 Piece Entry &amp; Interior Door Bit Set For 2" &amp; 2-1/4" Thick Stock</b>						
99-277	Beading	1-7/8"	7/8"	2-3/8"	1/2"	4-19/32"

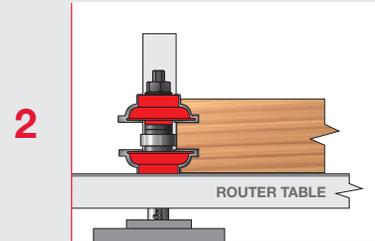


Freud's innovative feature enables the top section of the rail bit to be removed allowing you to cut an extended tenon cut in the rail. By making matching mortises in the mating stiles, a strong mortise & tenon joint will be created, which is required for making entry and interior door joints.

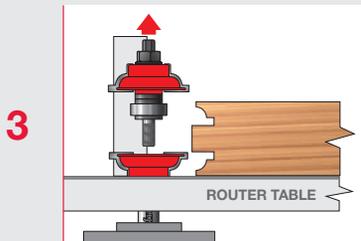
### — STEPS TO CREATE RAIL & STILE JOINTS WITH EXTENDED TENONS —



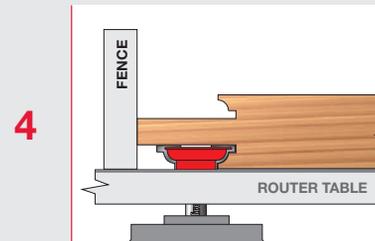
1 Install the rail bit and vertically center the bit with the stock.



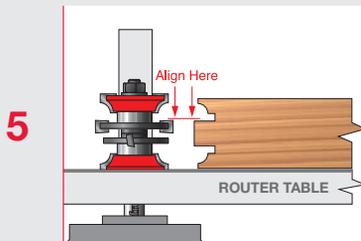
2 Rout the rail ends with stub tenons.



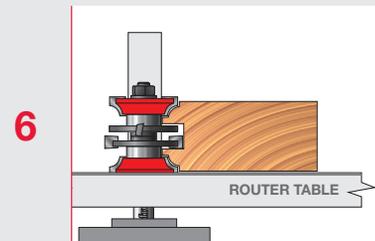
3 While leaving the rail bit in place, remove the top section of the router bit.



4 With the assistance of the fence, make several passes to create the extended tenon.



5 Install the stile cutter bit and align the top of the groove cutter to the top of the tongue of rail cut.



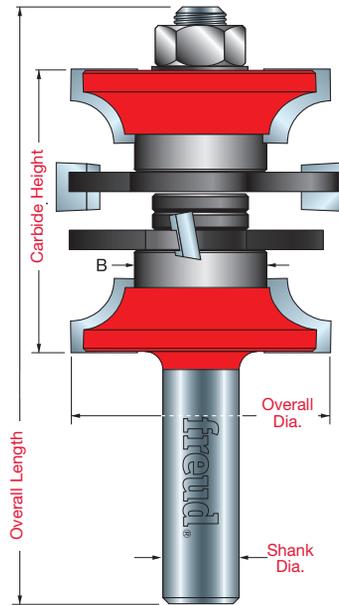
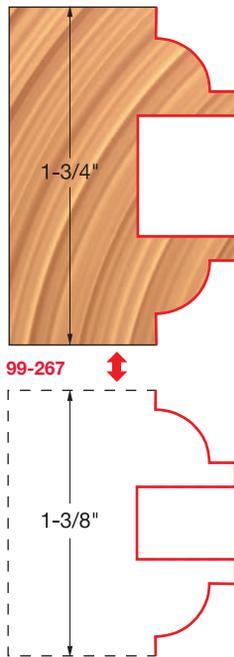
6 Using multiple passes, the stile cuts can now be made.

# Entry & Interior Door Router Bit System



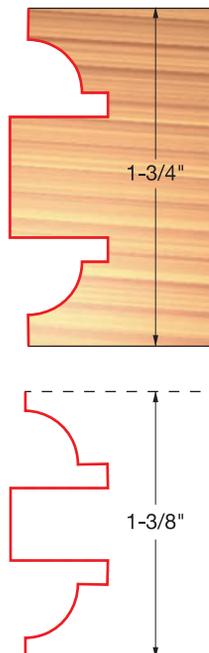
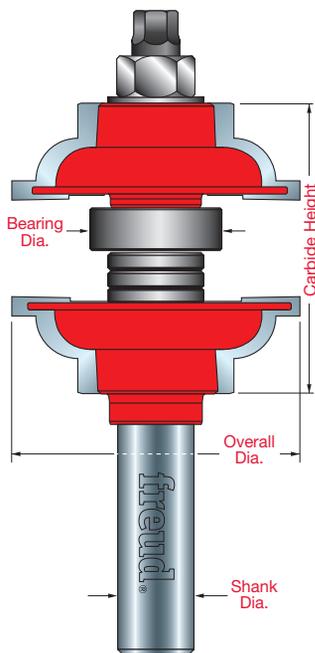
# DOOR & WINDOW BITS

CONTINUED



99-267

## BEADING



## USE IN



Table Router

## APPLICATION

Build entry and interior doors with true mortise and tenon construction for rock-solid joints that last a lifetime. Comes fully assembled to mill perfect 1-3/4" rail and stile joints for exterior doors. To mill 1-3/8" interior door joints, simply remove the spacers from each bit. To mill a tenon of virtually any length: the top cutter and bearing of the rail bit is simply unscrewed from the lower cutter and shank, without removing the bit from the router or changing the height of the cutter.

## MATERIALS



ROUTER BITS



CONTINUED

### USE IN



Table Router

### APPLICATION

Build entry and interior doors with true mortise and tenon construction for rock-solid joints that last a lifetime. Comes fully assembled to mill perfect 1-3/4" rail and stile joints for exterior doors. To mill 1-3/8" interior door joints, simply remove the spacers from each bit. To mill a tenon of virtually any length: the top cutter and bearing of the rail bit is simply unscrewed from the lower cutter and shank, without removing the bit from the router or changing the height of the cutter.

### MATERIALS

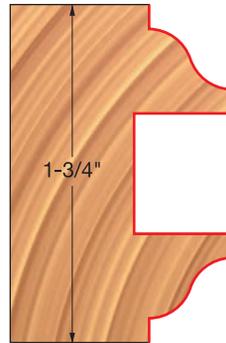
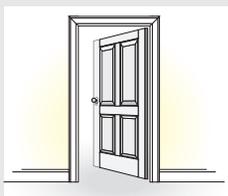


Hardwood

Softwood

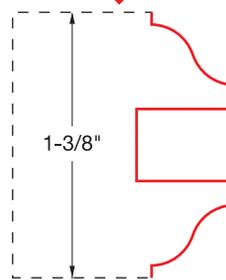
MDF

Plywood

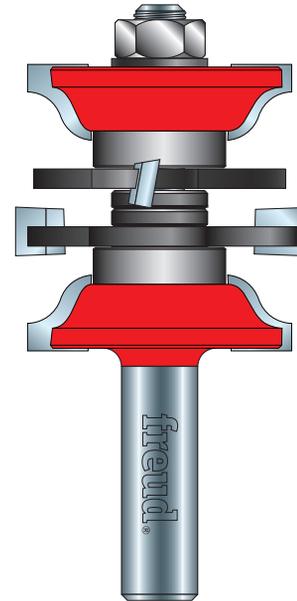


1-3/4"

99-268

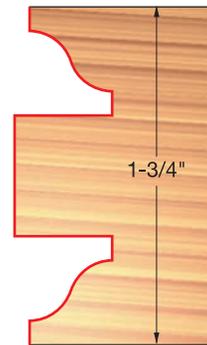
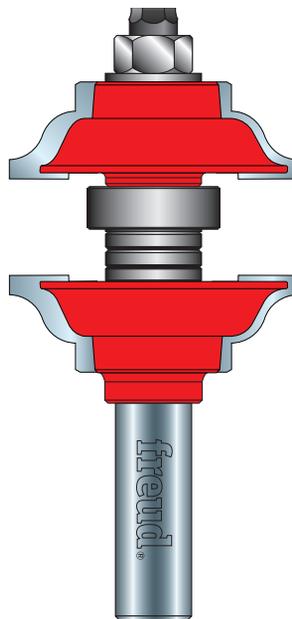


1-3/8"

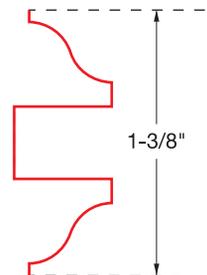


99-268

OGEE



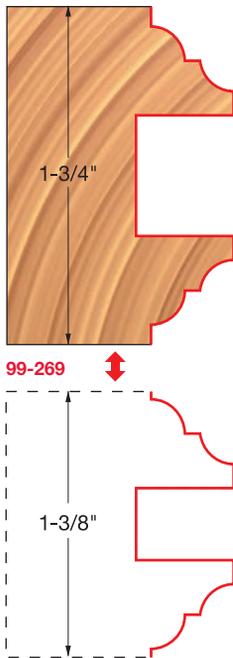
1-3/4"



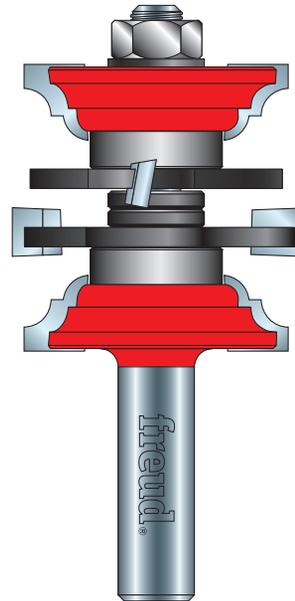
1-3/8"



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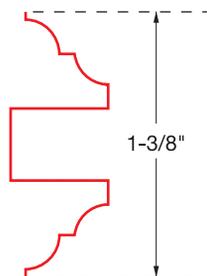
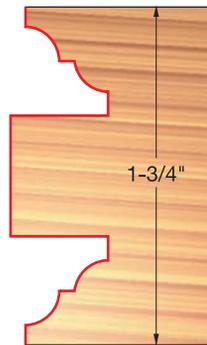
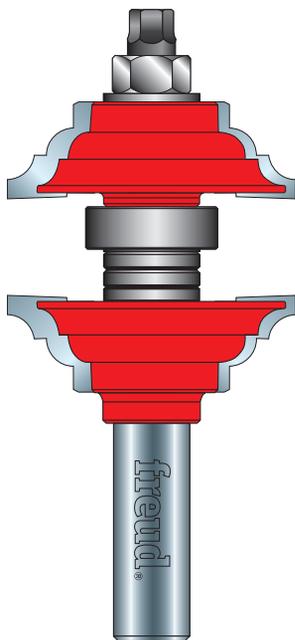


99-269



99-269

COVE & BEAD



## USE IN

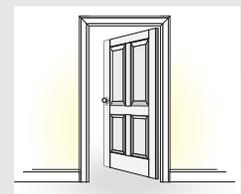


Table Router

## APPLICATION

Build entry and interior doors with true mortise and tenon construction for rock-solid joints that last a lifetime. Comes fully assembled to mill perfect 1-3/4" rail and stile joints for exterior doors. To mill 1-3/8" interior door joints, simply remove the spacers from each bit. To mill a tenon of virtually any length: the top cutter and bearing of the rail bit is simply unscrewed from the lower cutter and shank, without removing the bit from the router or changing the height of the cutter.

## MATERIALS



ROUTER BITS

# DOOR & WINDOW BITS



## Entry & Interior Door Router Bit System

### USE IN



Table Router

### APPLICATION

Build entry and interior doors with true mortise and tenon construction for rock-solid joints that last a lifetime. Comes fully assembled to mill perfect 1-3/4" rail and stile joints for exterior doors. To mill 1-3/8" interior door joints, simply remove the spacers from each bit. To mill a tenon of virtually any length: the top cutter and bearing of the rail bit is simply unscrewed from the lower cutter and shank, without removing the bit from the router or changing the height of the cutter.

### MATERIALS

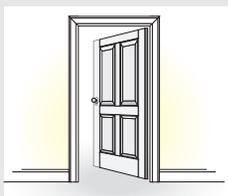


Hardwood

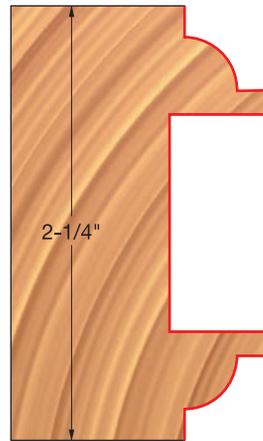
Softwood

MDF

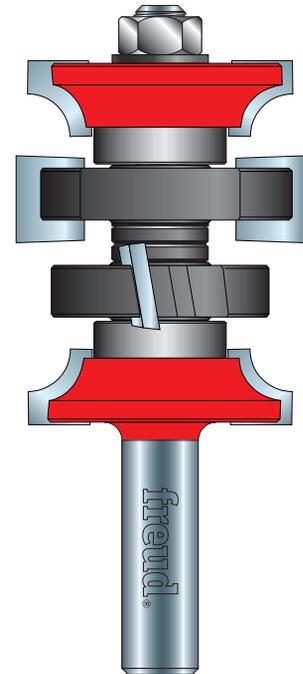
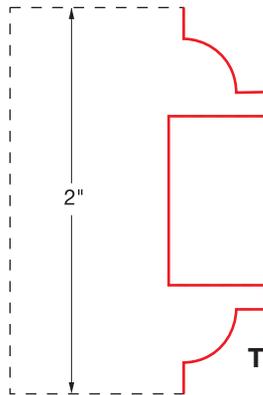
Plywood



CONTINUED

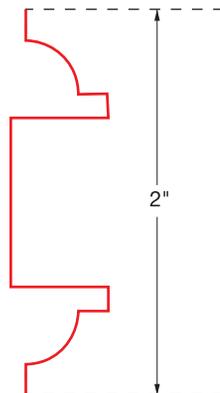
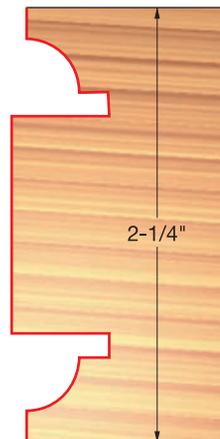
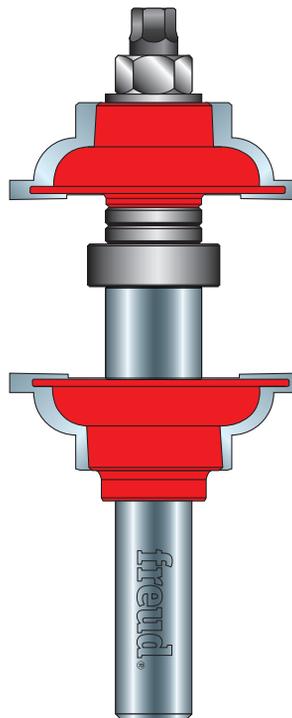


99-277



99-277

**THICK STOCK BEADING**  
UP TO 2-1/4" THICK



## 3-Piece French Door Bit Set

# DOOR & WINDOW BITS

BIT TYPE	ITEM NO.	OVERALL DIA.	CARBIDE HEIGHT	SHANK DIA.	OVERALL LENGTH
<b>Item Number 98-307</b>					
Stile Bit, Roundover	99-367	1-7/8"	1-7/8"	1/2"	3-7/8"
Rail Bit, Roundover	99-367	1-7/8"	19/32"	1/2"	2-1/4"
Mortising Bit	16-120	22mm	1-1/2"	1/2"	3"
<b>Item Number 98-308</b>					
Stile Bit, Ogee	99-368	1-7/8"	1-7/8"	1/2"	3-7/8"
Rail Bit, Ogee	99-368	1-7/8"	19/32"	1/2"	2-1/4"
Mortising Bit	16-120	22mm	1-1/2"	1/2"	3"
<b>Item Number 98-309</b>					
Stile Bit, Cove & Bead	99-369	1-7/8"	1-7/8"	1/2"	3-7/8"
Rail Bit, Cove & Bead	99-369	1-7/8"	19/32"	1/2"	2-1/4"
Mortising Bit	16-120	22mm	1-1/2"	1/2"	3"

### USE IN



Table Router

### APPLICATION

Precise shear and hook angles for smooth finishes and end of bit relief for fast plunging in general stock removal

### MATERIALS



Hardwood

Softwood

MDF

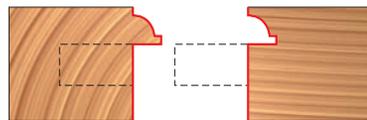
Plywood



98-307



**16-120**  
Mortising Bit



**99-367**  
Rail Bit

**99-367**  
Stile Bit



**99-368**  
Rail Bit

**99-368**  
Stile Bit

**99-369**  
Rail Bit

**99-369**  
Stile Bit

# DOOR & WINDOW BITS



## 5-Piece French Door Bit Set

### USE IN



Table Router

### APPLICATION

Create custom Full Lite, Simulated Divided Lite and True Divided Lite French Doors in any size, and with any wood species you choose. Unique design allows woodworkers to produce tenons of any length for extra-strong joints. Perfectly matched bits are designed to produce 1-3/4" thick exterior or 1-3/8" interior doors. Sets are offered in Roundover, Ogee, and Cove & Bead profiles. Perfect for milling fine hardwoods and softwoods, and also produces an excellent cut in other materials. Includes an instructional informative poster.

### MATERIALS



Hardwood

Softwood

MDF

Plywood



BIT TYPE	ITEM NO.	OVERALL DIA.	CARBIDE HEIGHT	SHANK DIA.	OVERALL LENGTH
<b>Item Number 98-317</b>					
Stile Bit, Roundover	99-367	1-7/8"	1-7/8"	1/2"	3-7/8"
Rail Bit, Roundover	99-367	1-7/8"	19/32"	1/2"	2-1/4"
Mortising Bit	16-120	22mm	1-1/2"	1/2"	3"
Intersection Bit, Roundover	39-367	1-1/8"	5/8"	1/2"	2-1/2"
Straight Bit	12-100	1/4"	3/4"	1/2"	2-3/8"
<b>Item Number 98-318</b>					
Stile Bit, Ogee	99-368	1-7/8"	1-7/8"	1/2"	3-7/8"
Rail Bit, Ogee	99-368	1-7/8"	19/32"	1/2"	2-1/4"
Mortising Bit	16-120	22mm	1-1/2"	1/2"	3"
Intersection Bit, Ogee	39-368	1-1/8"	5/8"	1/2"	2-1/2"
Straight Bit	12-100	1/4"	3/4"	1/2"	2-3/8"
<b>Item Number 98-319</b>					
Stile Bit, Cove & Bead	99-369	1-7/8"	1-7/8"	1/2"	3-7/8"
Rail Bit, Cove & Bead	99-369	1-7/8"	19/32"	1/2"	2-1/4"
Mortising Bit	16-120	22mm	1-1/2"	1/2"	3"
Intersection Bit, Cove & Bead	39-369	1-1/8"	5/8"	1/2"	2-1/2"
Straight Bit	12-100	1/4"	3/4"	1/2"	2-3/8"



98-317



16-120  
Mortising Bit



12-120  
Straight Bit



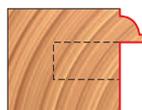
39-367  
Muntin Joint Bit



39-368  
Muntin Joint Bit



39-369  
Muntin Joint Bit



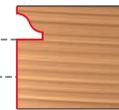
99-367  
Rail Bit



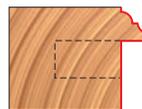
99-367  
Stile Bit



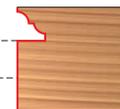
99-368  
Rail Bit



99-368  
Stile Bit

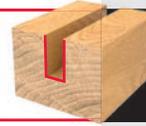


99-369  
Rail Bit



99-369  
Stile Bit

## 2-Piece French Door Grill Set



# DOOR & WINDOW BITS

BIT TYPE	ITEM NO.	OVERALL DIA.	CARBIDE HEIGHT	SHANK DIA.	OVERALL LENGTH
<b>Item Number 98-327</b>					
Intersection Bit, Roundover	39-367	1-1/8"	5/8"	1/2"	2-1/2"
Straight Bit	12-100	1/4"	3/4"	1/2"	2-3/8"
<b>Item Number 98-328</b>					
Intersection Bit, Ogee	39-368	1-1/8"	5/8"	1/2"	2-1/2"
Straight Bit	12-100	1/4"	3/4"	1/2"	2-3/8"
<b>Item Number 98-329</b>					
Intersection Bit, Cove & Bead	39-369	1-1/8"	5/8"	1/2"	2-1/2"
Straight Bit	12-100	1/4"	3/4"	1/2"	2-3/8"

### USE IN



Table Router

### APPLICATION

Create perfect joints in grills for simulated divided lite door construction. Bits match the profiles of French Door bit sets.

### MATERIALS



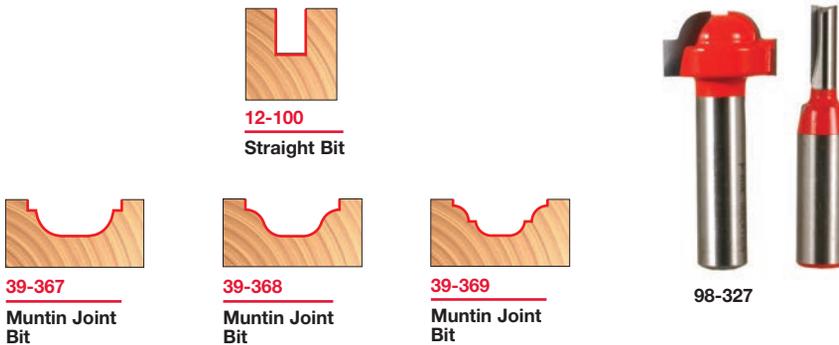
Hardwood

Softwood

MDF

Plywood

ROUTER BITS



12-100

Straight Bit

39-367

Muntin Joint Bit

39-368

Muntin Joint Bit

39-369

Muntin Joint Bit

98-327

# DOOR & WINDOW BITS



## French Provincial Raised Panel Bit

### USE IN



Table Router

CNC

### APPLICATION

Ideal for making decorative grooves in panels, tops and plaques. Produces raised panels used in doors and paneling from 3/4" stock. Adjust the length of the tongue by using a fence.

### MATERIALS



Hardwood

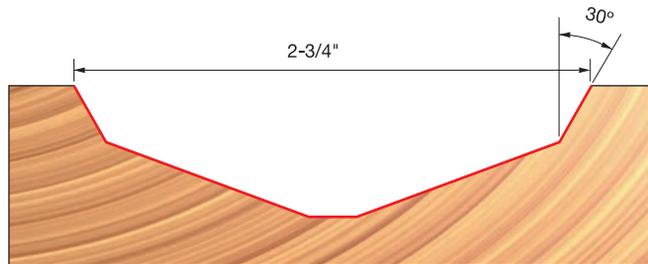
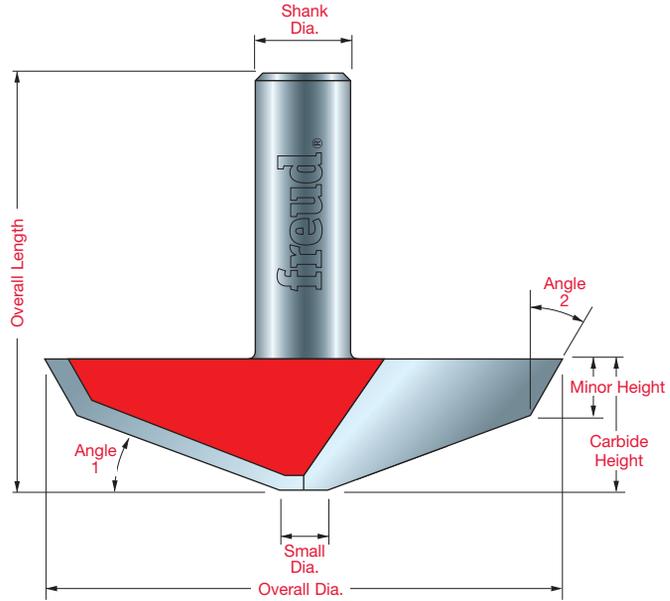
Softwood

MDF

Plywood

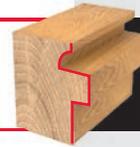
ROUTER BITS

ITEM NUMBER	OVERALL DIA.	SMALL DIA.	CARBIDE HEIGHT	MINOR HEIGHT	ANGLE 1	ANGLE 2	SHANK DIA.	OVERALL LENGTH
99-214	2-3/4"	1/4"	11/16"	19/64"	20°	30°	1/2"	2-3/16"



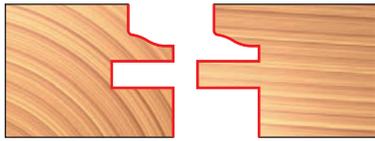
99-214

## Matched Rail & Stile Mini Profile Bit Sets

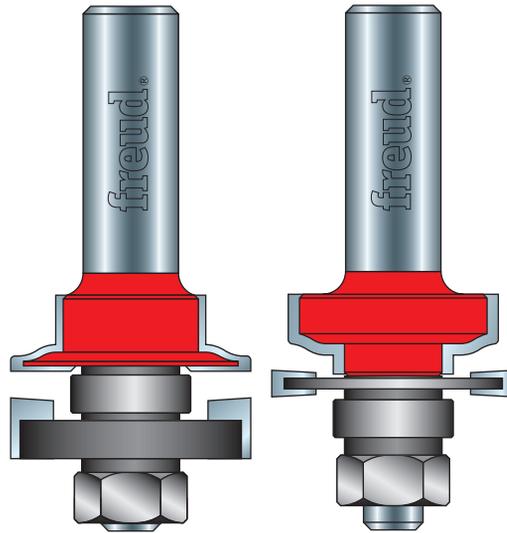


## DOOR & WINDOW BITS

ITEM NUMBER	OVERALL DIA.	SMALL DIA.	CARBIDE HEIGHT	MINOR HEIGHT	LARGE RADIUS	SHANK DIA.	OVERALL LENGTH
99-266	1-9/32"	25/32"	13/16"	-	-	1/2"	2-11/16"



99-266



### USE IN

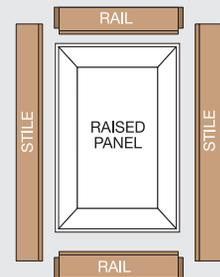


Table Router

### APPLICATION

Produces perfect fitting rail and stile doors from 3/4" stock. Produce flawless raised panel doors when you combine these bits with one of Freud's Raised Panel Bits. Shims are included to ensure a perfect fit.

### MATERIALS



ROUTER BITS

# DOOR & WINDOW BITS



## Quadra-Cut™ Raised Panel Bits

### USE IN



Table Router



### APPLICATION

Ideal for creating raised panels for doors and paneling, as well as decorative tops, plaques and molding. Revolutionary design combines two small wings that cut downward to shear the top edge for a splinter-free surface, and two large wings that shear upward for a smooth finish.

### MATERIALS



Hardwood

Softwood

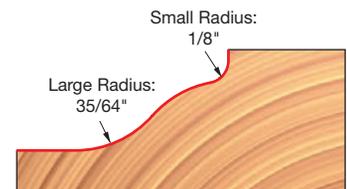
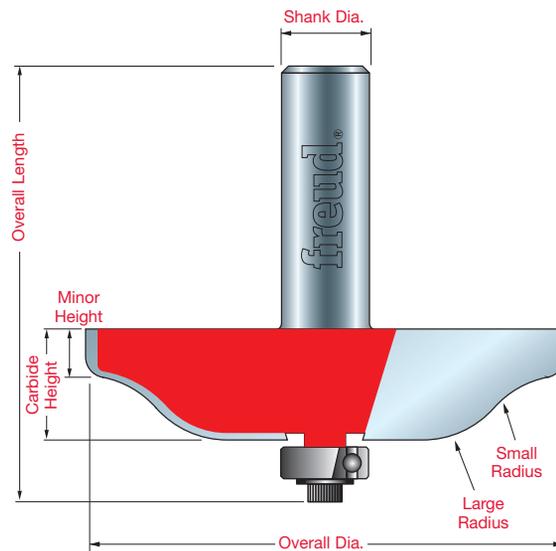
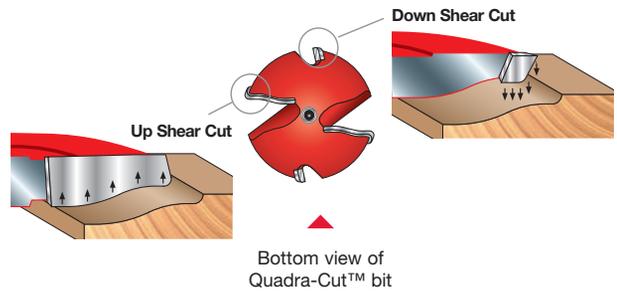
MDF

Plywood

ITEM NUMBER	OVERALL DIA.	SMALL DIA.	CARBIDE HEIGHT	MINOR HEIGHT	LARGE RADIUS	SMALL RADIUS	SHANK DIA.	OVERALL LENGTH
99-510	2-3/4"	-	5/8"	7/32"	35/64"	1/8"	1/2"	2-1/2"
99-511	2-3/4"	1-1/8"	5/8"	15/64"	-	-	1/2"	2-1/2"
99-512	2-3/4"	1-1/4"	5/8"	17/64"	13/64"	-	1/2"	2-1/2"
99-513*	2-3/4"	-	5/8"	15/64"	7/16"	-	1/2"	2-1/2"
99-515	3-1/2"	1-1/4"	5/8"	5/32"	-	-	1/2"	2-1/2"
99-516	3-1/2"	1-1/4"	1/2"	5/32"	-	-	1/2"	2-1/2"
99-518	3-1/2"	-	5/8"	5/64"	1-1/2"	-	1/2"	2-1/2"
99-519	3-1/2"	-	1/2"	5/64"	1-1/2"	-	1/2"	2-1/2"
99-520	3-1/2"	-	5/8"	7/32"	25/32"	5/32"	1/2"	2-1/2"
99-521	3-1/2"	-	1/2"	-	1-3/16"	5/32"	1/2"	2-1/2"
99-522	3-1/2"	1-1/4"	5/8"	-	15/64"	-	1/2"	2-1/2"
99-523	3-1/2"	1-1/4"	1/2"	-	5/32"	-	1/2"	2-1/2"



### FREUD'S QUADRA-CUT™ 4 CUTTER DESIGN



99-510

Quadra-Cut Design

\* Angle=110°

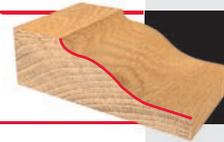
U.S. Patent No. 5,899,252

Red Item Numbers Indicate 1/2" Shank

Drawings are not to scale

# Quadra-Cut™ Raised Panel Bits

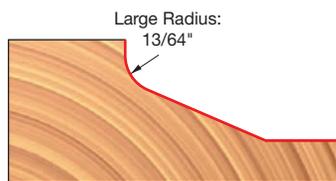
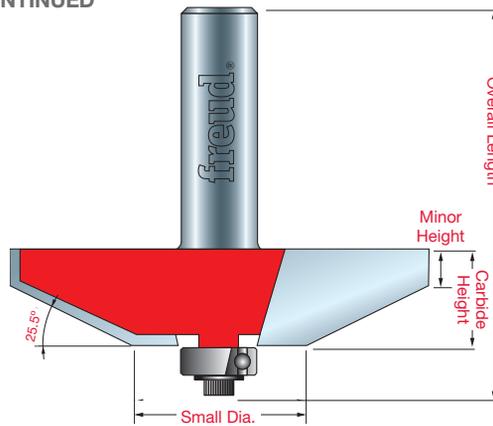
# DOOR & WINDOW BITS



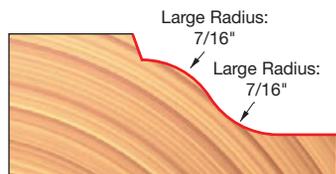
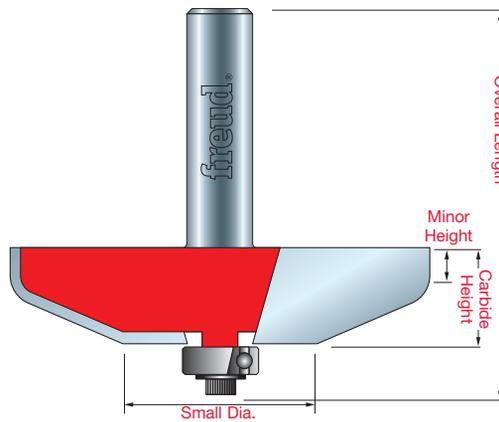
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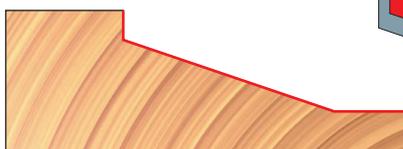
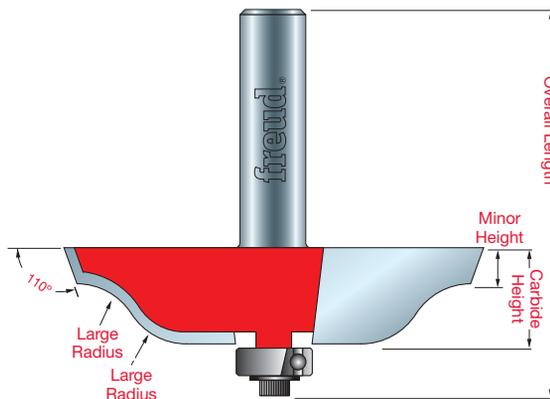
99-511



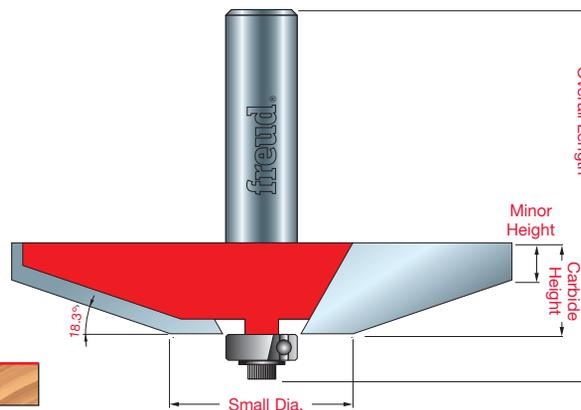
99-512



99-513



99-515



## USE IN



Table Router

## APPLICATION

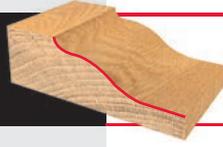
Ideal for creating raised panels for doors and paneling, as well as decorative tops, plaques and molding. Revolutionary design combines two small wings that cut downward for a splinter-free surface, and two large wings that shear upward for a smooth finish.

## MATERIALS



ROUTER BITS

# DOOR & WINDOW BITS



## Quadra-Cut™ Raised Panel Bits

### USE IN



Table Router

### APPLICATION

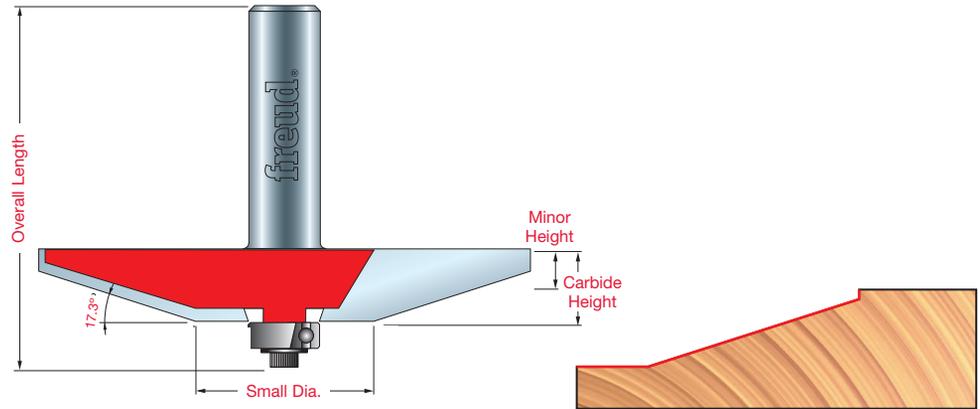
Ideal for creating raised panels for doors and paneling, as well as decorative tops, plaques and molding. Revolutionary design combines two small wings that cut downward to shear the top edge for a splinter-free surface, and two large wings that shear upward for a smooth finish.

### MATERIALS

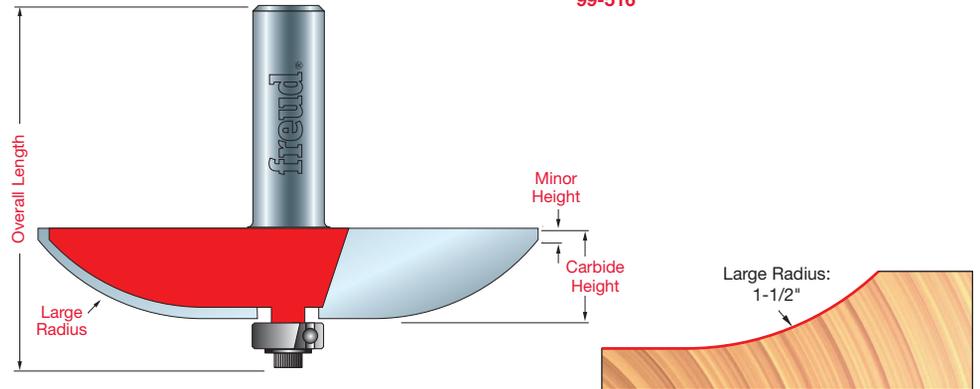


ROUTER BITS

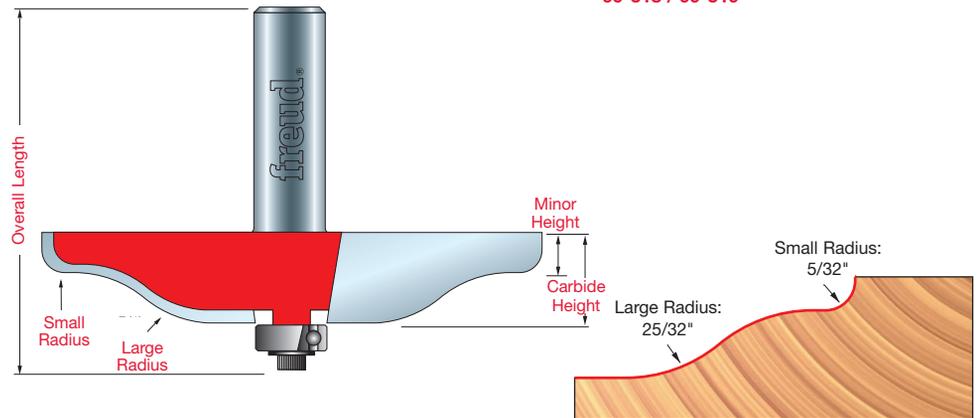
CONTINUED



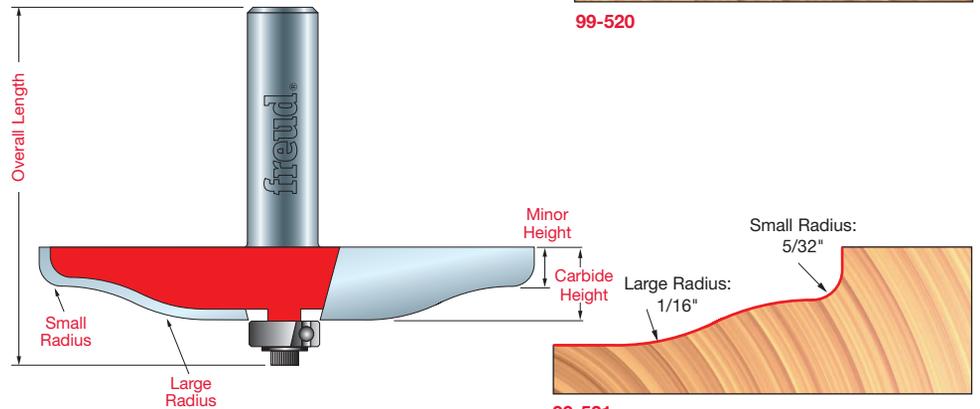
99-516



99-518 / 99-519

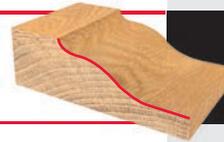


99-520



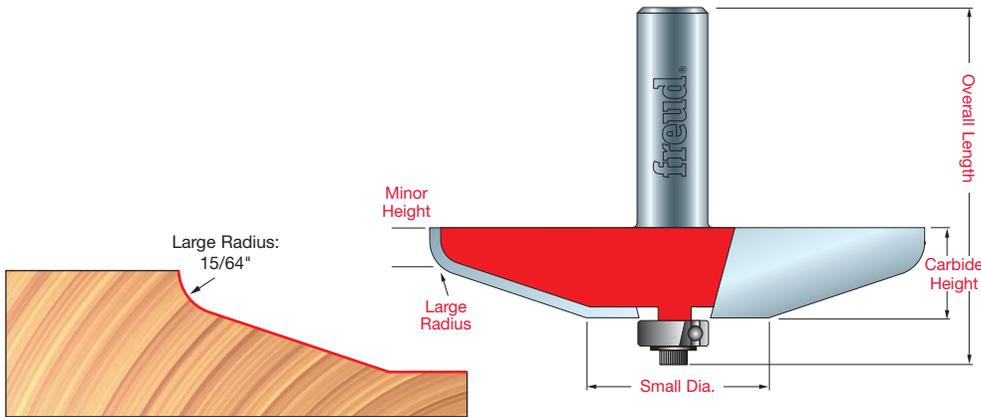
99-521

# Quadra-Cut™ Raised Panel Bits

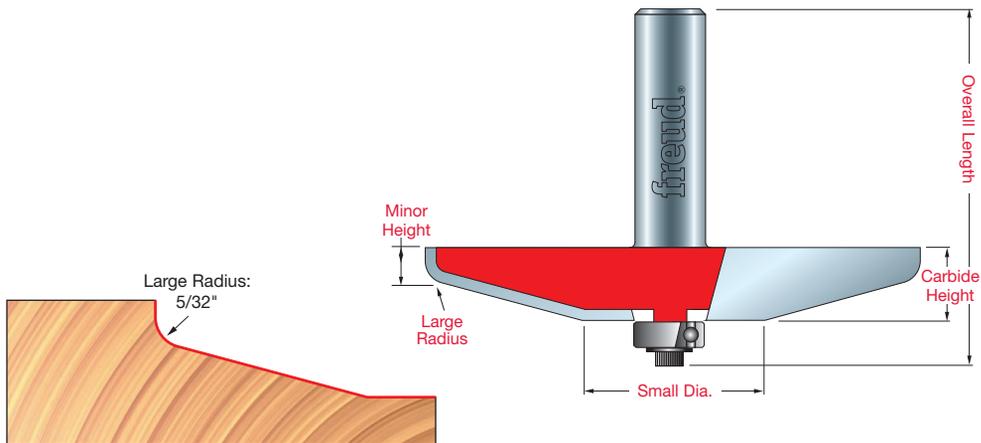


## DOOR & WINDOW BITS

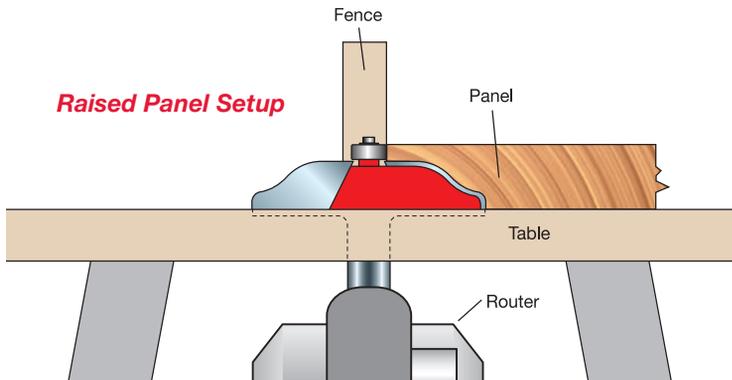
CONTINUED



99-522



99-523



### USE IN



Table Router

### APPLICATION

Ideal for creating raised panels for doors and paneling, as well as decorative tops, plaques and molding. Revolutionary design combines two small wings that cut downward to shear the top edge for a splinter-free surface, and two large wings that shear upward for a smooth finish.

### MATERIALS



Hardwood

Softwood

MDF

Plywood

ROUTER BITS

# DOOR & WINDOW BITS



## Quadra-Cut™ Raised Panel Bits with Backcutters

### USE IN



Table Router



### APPLICATION

Producing panels from 3/4" stock that are flush with the doorframe for a professional, architecturally correct appearance. Exclusive design combines a backcutter with the smooth cuts of Freud's Quadra-Cut™ Raised Panel Bits. Shims are included to allow adjustment of tongue thickness from 7/32" to 1/4" for maximum versatility and compatibility. Patented design allows these bits to produce a full 1-1/2" wide reveal for traditional raised panel doors. Included 54-562 radius backcutter gives double-sided appearance and can be replaced with optional 54-560 square backcutter for a more contemporary look.

### MATERIALS

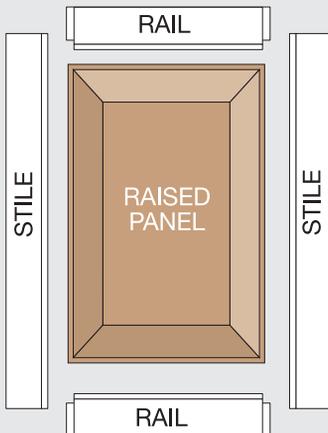


Hardwood

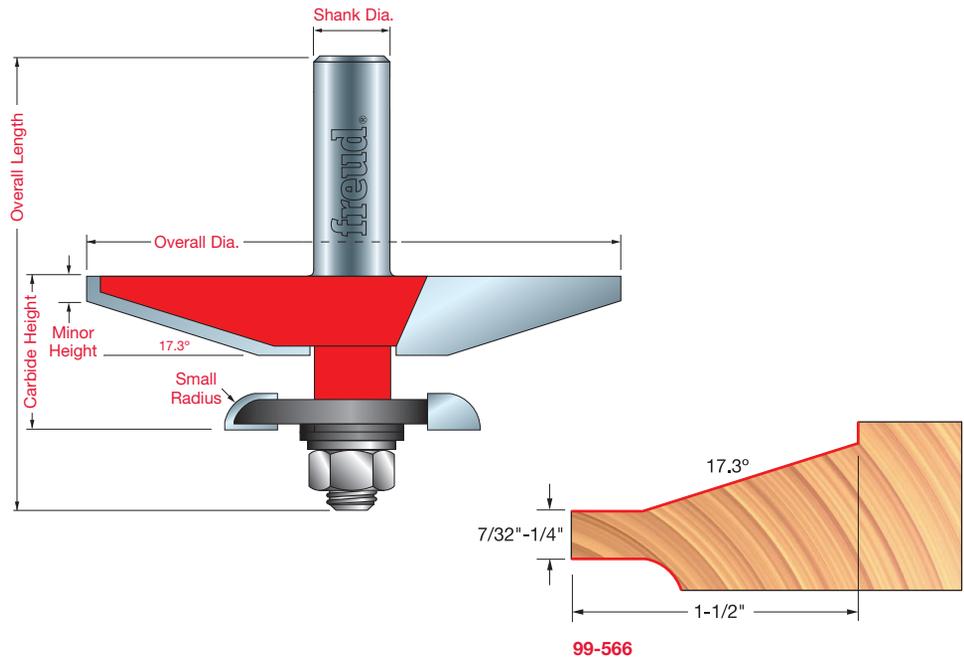
Softwood

MDF

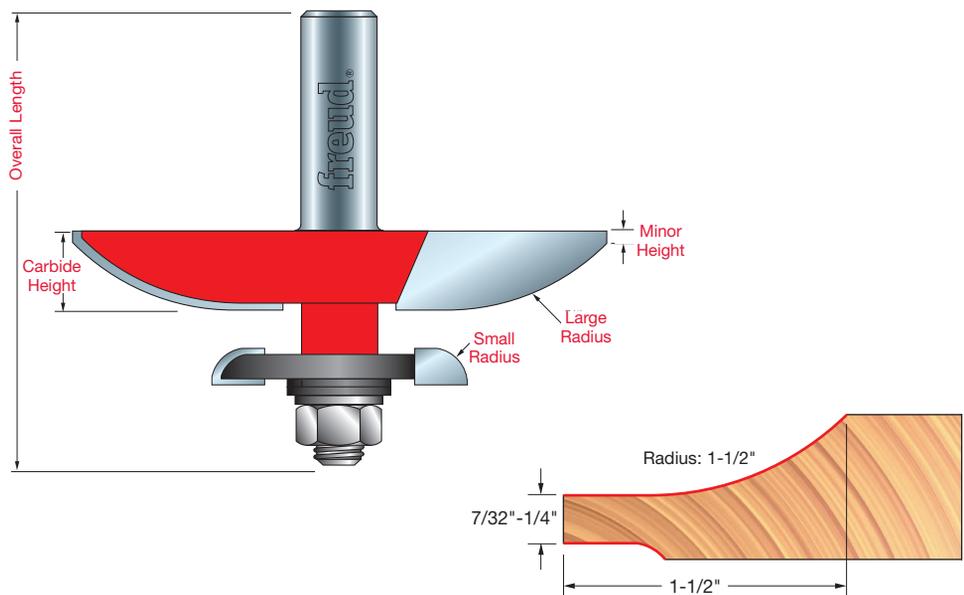
Plywood



ITEM NUMBER	OVERALL DIA.	CARBIDE HEIGHT	MINOR HEIGHT	LARGE RADIUS	SMALL RADIUS	SHANK DIA.	OVERALL LENGTH
99-566	3-1/2"	1"	5/32"	-	3/16"	1/2"	3"
99-569	3-1/2"	1"	5/32"	1-1/2"	3/16"	1/2"	3"
99-571	3-1/2"	1"	-	1-3/16"	5/32"	1/2"	3"
Optional Replacement Backcutters							
54-560	1-7/16"	15/64"	-	-	-	-	-
54-562	1-13/16"	15/64"	-	-	3/16"	-	-
Mini Quadra-Cut Raised Panel Bit							
99-500	2-19/32"	7/8"	-	3/4"	7/64"	1/2"	2-51/64"



99-566



99-569

Quadra-Cut Design  
 U.S. Patent No. 5,899,252  
 U.S. Patent No. 6,354,347

Red Item Numbers Indicate 1/2" Shank

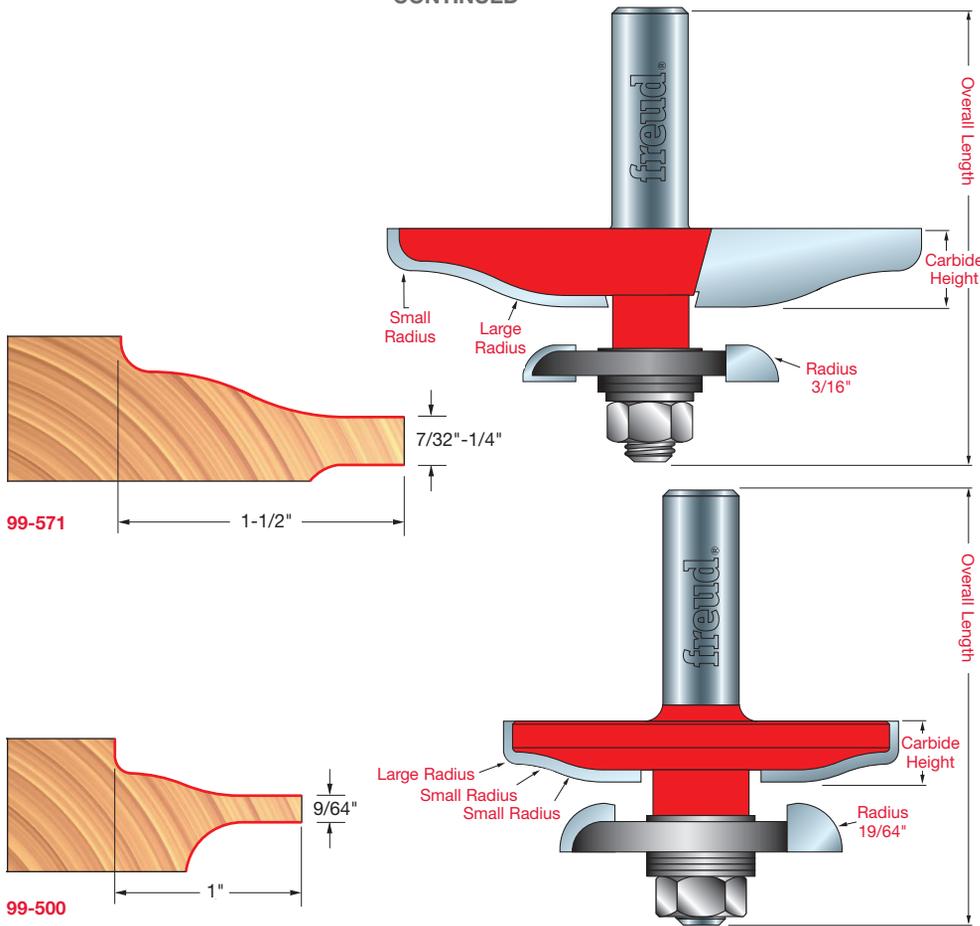
All Profile Drawings 1:1 Scale

# Quadra-Cut™ Raised Panel Bits with Backcutters



## DOOR & WINDOW BITS

CONTINUED



### USE IN



Table Router

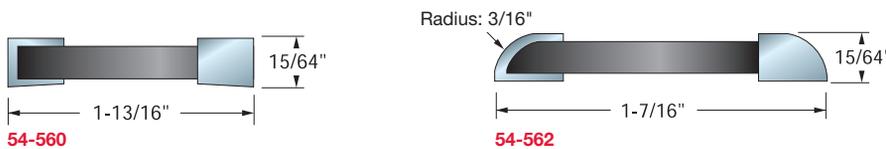
### APPLICATION

Producing panels from 3/4" stock that are flush with the doorframe for a professional, architecturally correct appearance. Exclusive design combines a backcutter with the smooth cuts of Freud's Quadra-Cut™ Raised Panel Bits. Shims are included to allow adjustment of tongue thickness from 7/32" to 1/4" for maximum versatility and compatibility. Patented design allows these bits to produce a full 1-1/2" wide reveal for traditional raised panel doors. Included 54-562 radius backcutter gives double-sided appearance and can be replaced with optional 54-560 square backcutter for a more contemporary look.

### MATERIALS

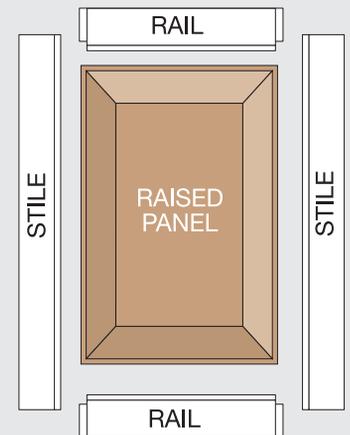


### Replacement Backcutters

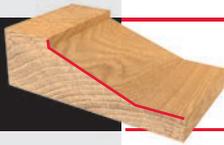


### STEPS TO BUILDING A PERFECT PANEL DOOR

- 1** Cut rail ends.  
Bit shown is from Freud set #99-760.
- 2** Rout stiles & rails.  
Bit shown is from Freud set #99-760.
- 3** In one step, cut door panel profile and back cut.  
Quadra-Cut™ Raised Panel Bit shown is the #99-569.
- 4** Assemble stiles, rails and door panel.



# DOOR & WINDOW BITS



## Vertical Raised Panel Bits

### USE IN



Table Router

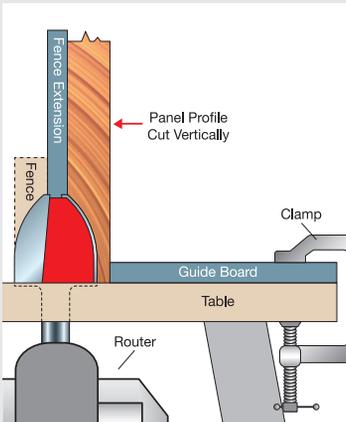
### APPLICATION

Creates full sized raised panels by feeding 3/4" stock vertically. Small overall diameter makes these bits ideal for lower horsepower routers and single speed routers.

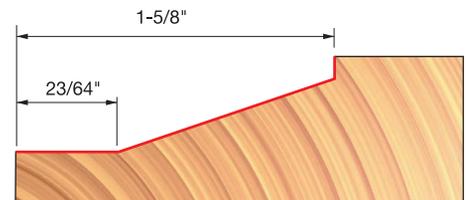
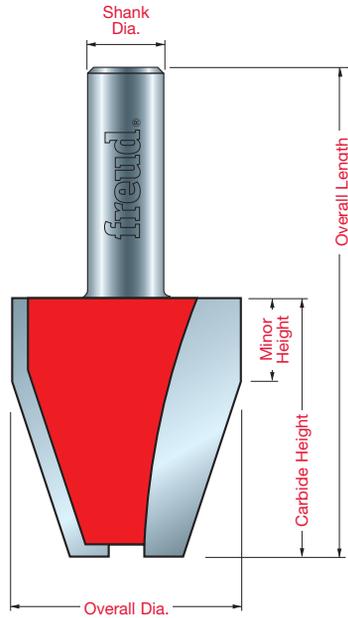
### MATERIALS



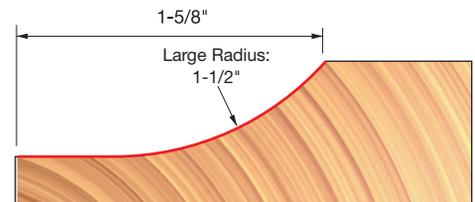
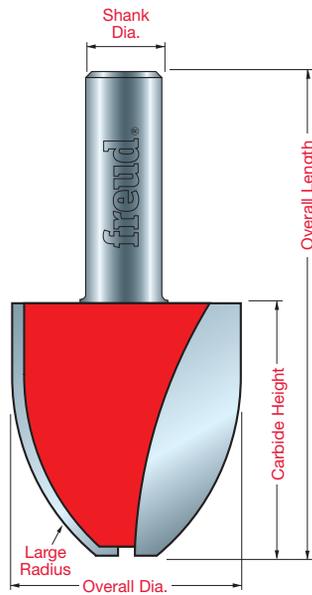
### SET UP



ITEM NUMBER	OVERALL DIA.	CARBIDE HEIGHT	MINOR HEIGHT	LARGE RADIUS	SMALL RADIUS	SHANK DIA.	OVERALL LENGTH
99-315	1-1/2"	1-5/8"	23/64"	-	-	1/2"	3-3/16"
99-318	1-1/2"	1-5/8"	-	1-1/2"	-	1/2"	3-3/16"
99-320	1-1/2"	1-5/8"	-	25/32"	5/32"	1/2"	3-3/16"
99-322	1-1/2"	1-5/8"	23/64"	3/8"	-	1/2"	3-3/16"

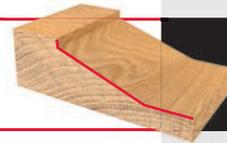


99-315



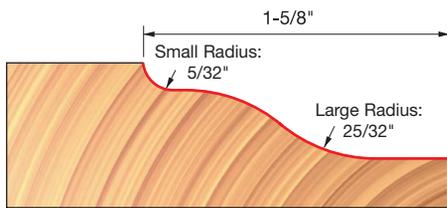
99-318

# Vertical Raised Panel Bits

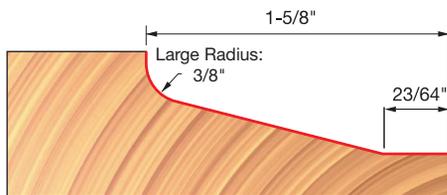
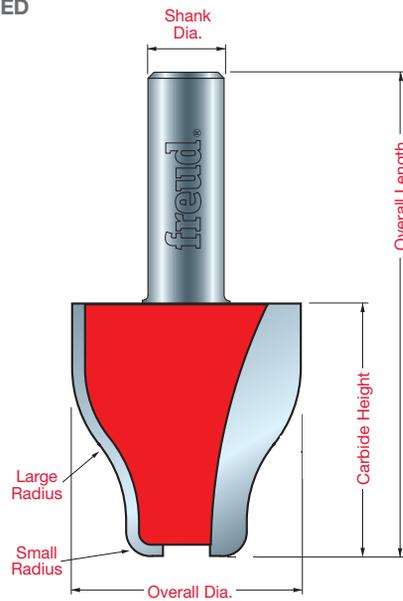


## DOOR & WINDOW BITS

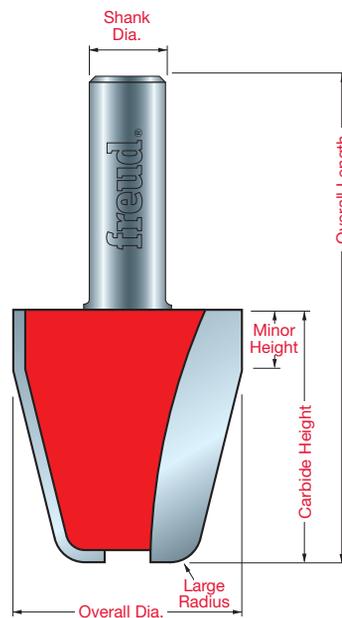
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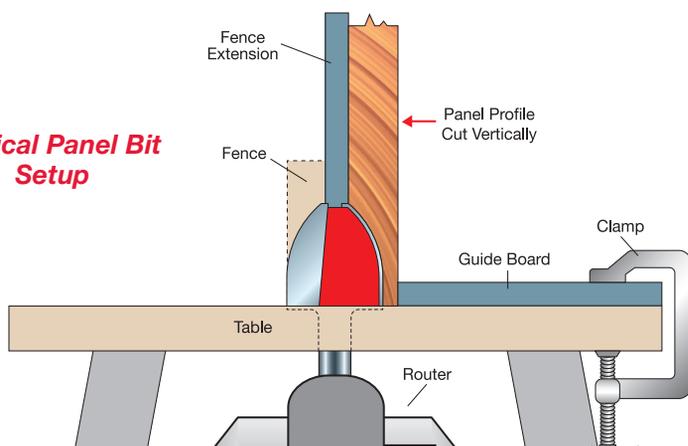
99-320



99-322



### Vertical Panel Bit Setup



Red Item Numbers Indicate 1/2" Shank

All Profile Drawings 1:1 Scale

### USE IN



Table Router

### APPLICATION

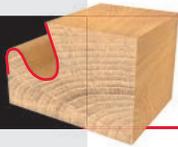
Creates full sized raised panels by feeding 3/4" stock vertically. Small overall diameter makes these bits ideal for lower horsepower routers and single speed routers.

### MATERIALS



ROUTER BITS

# DOOR & WINDOW BITS



## Door Pull Bit

### USE IN



Table Router

### APPLICATION

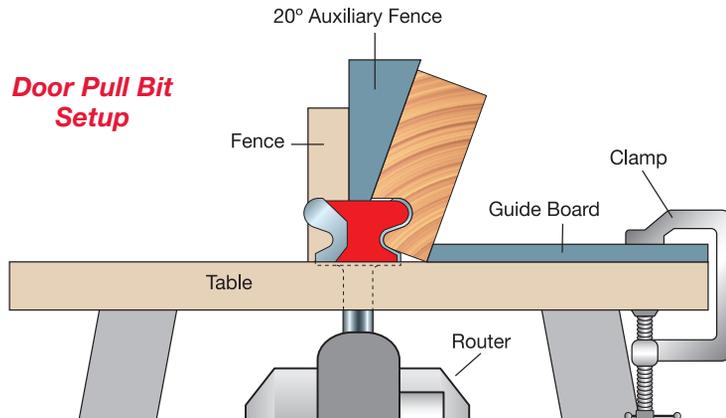
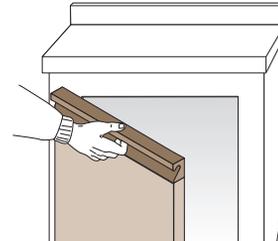
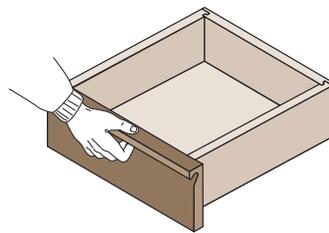
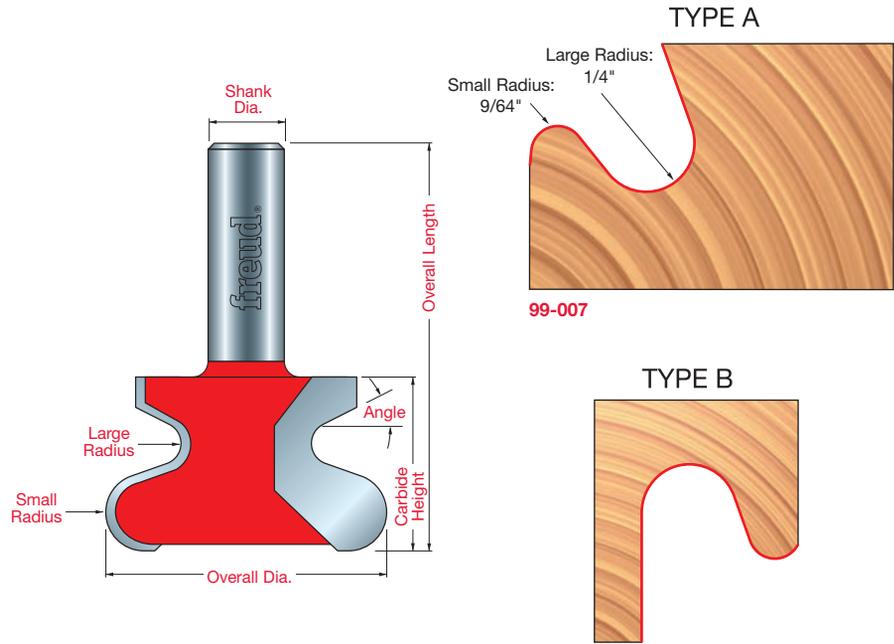
Produces the finger pull groove found on popular contemporary cabinet doors

### MATERIALS



ROUTER BITS

ITEM NUMBER	OVERALL DIA.	CARBIDE HEIGHT	LARGE RADIUS	SMALL RADIUS	ANGLE	SHANK DIA.	OVERALL LENGTH
99-007	1-27/32"	1-1/8"	1/4"	9/64"	26-1/2°	1/2"	2-5/8"



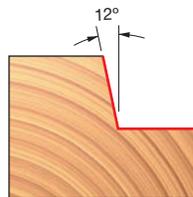
## Door Lip Bit



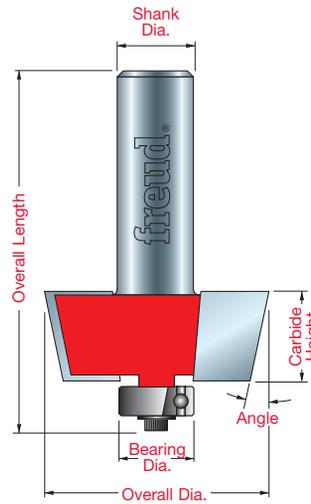
# DOOR & WINDOW BITS

CONTINUED

ITEM NUMBER	OVERALL DIA.	BEARING DIA.	CARBIDE HEIGHT	ANGLE	SHANK DIA.	OVERALL LENGTH
99-002	1-1/2"	1/2"	19/32"	12°	1/2"	2-7/16"



99-002



### USE IN



Table Router Hand Router

### APPLICATION

Cutting out the inset portion of a cabinet door. Use with your choice of face profiles for maximum design versatility.

### MATERIALS



Hardwood

Softwood

MDF

Plywood

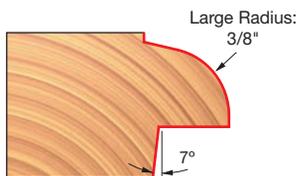
ROUTER BITS

## Door Lip Bit

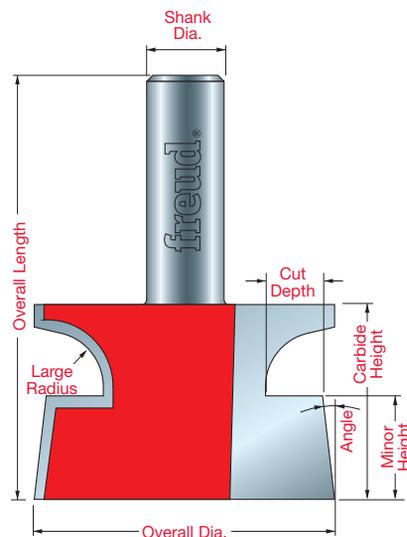


# DOOR & WINDOW BITS

ITEM NUMBER	OVERALL DIA.	CUT DEPTH	CARBIDE HEIGHT	MINOR HEIGHT	LARGE RADIUS	ANGLE	SHANK DIA.	OVERALL LENGTH
99-001	2"	29/64"	1-1/4"	11/16"	3/8"	7°	1/2"	2-3/4"



99-001



### USE IN



Table Router

### APPLICATION

Producing classical door lips on stock from 1/2" to 1-1/4" in thickness

### MATERIALS



Hardwood

Softwood

MDF

Plywood

# DOOR & WINDOW BITS



## No Lip Door Edge Bit

### USE IN



Table Router Hand Router

### APPLICATION

Create a decorative inverted Ogee Profile on the face of door fronts. Designed to compliment the profile formed on the face of the door created by the 99-064 finger pull door edge bit. Precise shear angles provide a splinter-free finish.

### MATERIALS



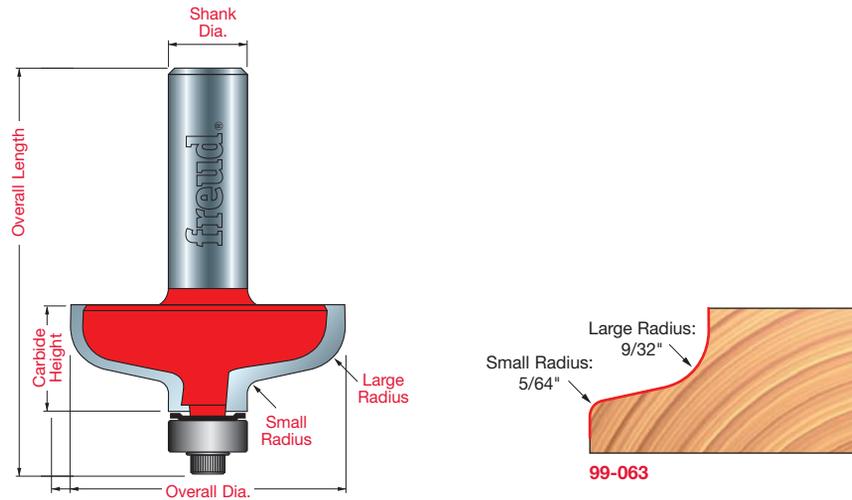
Hardwood

Softwood

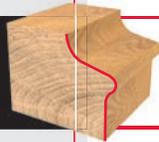
MDF

Plywood

ITEM NUMBER	OVERALL DIA.	CARBIDE HEIGHT	LARGE RADIUS	SMALL RADIUS	SHANK DIA.	OVERALL LENGTH
99-063	1-3/4"	5/8"	9/32"	5/64"	1/2"	2-5/8"



# DOOR & WINDOW BITS



## Finger Pull Door Lip Bit

### USE IN



Table Router

### APPLICATION

Creating the finger pull found on popular contemporary cabinet doors

### MATERIALS



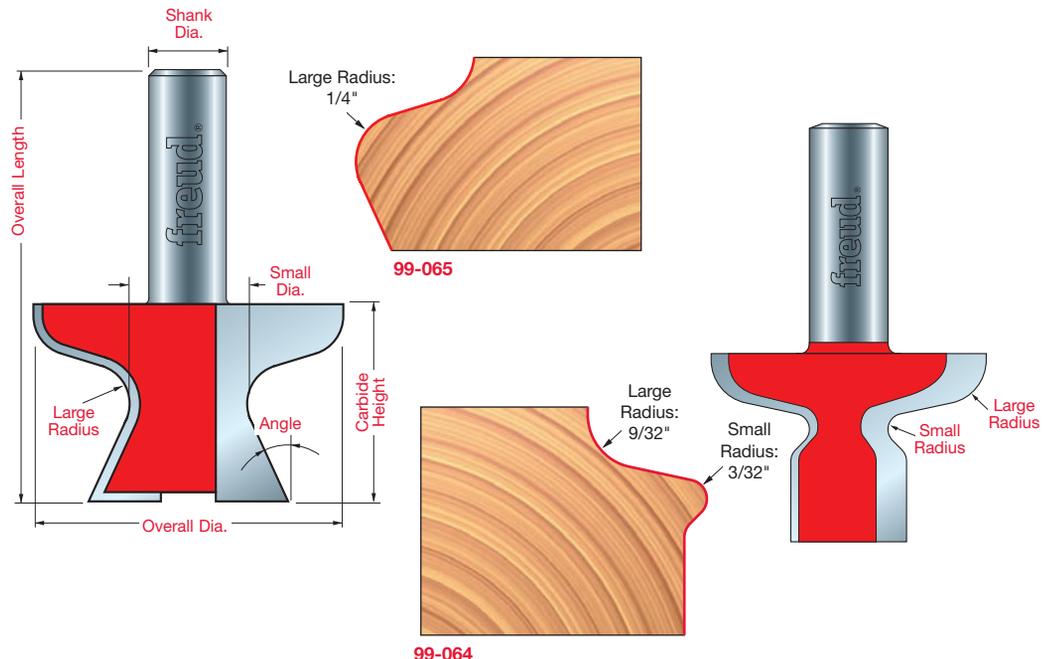
Hardwood

Softwood

MDF

Plywood

ITEM NUMBER	OVERALL DIA.	SMALL DIA.	CARBIDE HEIGHT	LARGE RADIUS	SMALL RADIUS	ANGLE	SHANK DIA.	OVERALL LENGTH
99-064	1-3/4"	5/8"	1-3/16"	9/32"	3/32"	-	1/2"	2-5/8"
99-065	2"	3/4"	1-1/4"	1/4"	-	25°	1/2"	2-3/4"

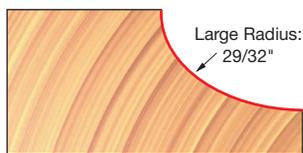


## Drawer Front Bit

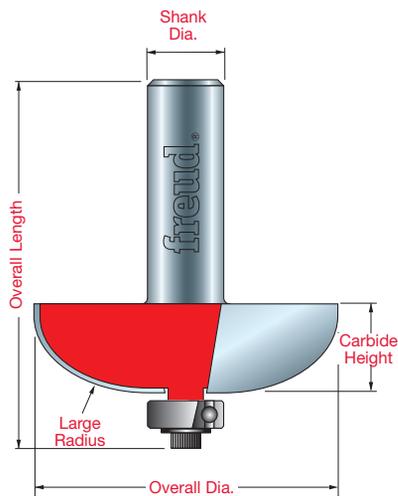
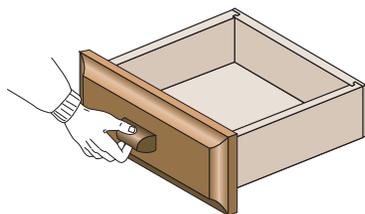


## DOOR & WINDOW BITS

ITEM NUMBER	OVERALL DIA.	CARBIDE HEIGHT	LARGE RADIUS	SHANK DIA.	OVERALL LENGTH
99-066	2"	9/16"	29/32"	1/2"	2-3/8"



99-066



### USE IN



Table Router Hand Router

### APPLICATION

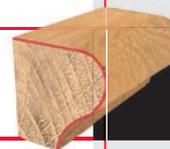
Adding a decorative "raised panel" look to drawer fronts. Precise shear angles provide a splinter-free finish.

### MATERIALS



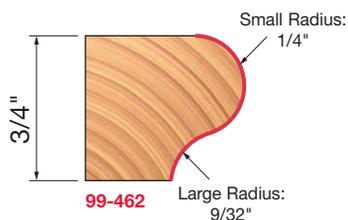
ROUTER BITS

## Window Stool Bit

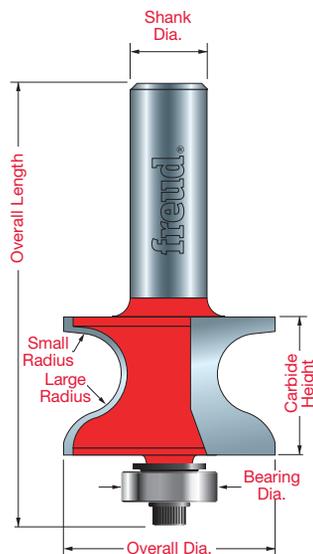


## DOOR & WINDOW BITS

ITEM NUMBER	OVERALL DIA.	BEARING DIA.	CARBIDE HEIGHT	LARGE RADIUS	SMALL RADIUS	SHANK DIA.	OVERALL LENGTH
99-462	1-13/32"	5/8"	1"	9/32"	1/4"	1/2"	2-7/8"



99-462



### USE IN



Table Router Hand Router

### APPLICATION

For milling a graceful, traditional window sill profile. Perfect to match an existing window stool, or to add a beautiful decorative touch to an unadorned window opening. Suitable for 11/16" or 3/4" thick material. Includes a ball bearing guide for use with patterns or to align the fence.

### MATERIALS



# ROUTER BIT SETS

## USE IN



Table Router Hand Router

## APPLICATION

Ideal starter set for the beginning woodworker. Includes a variety of bits that allow you to experience several router functions.



## MATERIALS



Hardwood Softwood Laminate



MDF Plywood

## 9-Piece Basic Bit Set

BIT TYPE	ITEM NO.	OVERALL DIA.	BEARING DIA.	CARBIDE HEIGHT	NO. OF FLUTES	MINOR HEIGHT	ANGLE	SHANK DIA.	OVERALL LENGTH
<b>Item Number 88-100 (9 pc. 1/4" Shank Set)</b>									
Double Flute Straight Bit*	04-104	1/4"	-	1/2"	-	-	-	1/4"	2"
Double Flute Straight Bit	04-124	3/8"	-	1"	-	-	-	1/4"	2-1/2"
Mortising Bit	16-100	1/2"	-	1/2"	-	-	-	1/4"	2"
Dovetail Bit	22-104	1/2"	-	1/2"	-	14°	-	1/4"	1-7/8"
Rabbeting Bit	32-100	1-1/4"	1/2"	1/2"	-	-	-	1/4"	2"
Rounding Over Bit	34-110	1"	1/2"	1/2"	-	-	1/4"	1/4"	2-3/16"
Roman Ogee Bit	38-100	1-1/16"	3/8"	1/2"	-	-	5/32"	1/4"	2-3/16"
Bearing Flush Trim Bit	42-102	3/8"	3/8"	1/2"	2	-	-	1/4"	2-5/16"
Panel Pilot Bit*	70-100	1/4"	-	1/4"	1	-	1/4"	1-5/8"	1-5/8"
<b>Item Number 91-108 (9 pc. 1/2" Shank Set)</b>									
Double Flute Straight Bit	12-116	1/2"	-	1"	-	-	-	1/2"	2-5/8"
Double Flute Straight Bit	12-108	3/8"	-	1"	-	-	-	1/2"	2-5/8"
Mortising Bit	16-110	1/2"	-	1/2"	-	-	-	1/2"	2-3/8"
Dovetail Bit	22-112	1/2"	-	1/2"	-	14°	-	1/2"	2-1/4"
Rabbeting Bit	32-102	1-1/4"	1/2"	1/2"	-	-	-	1/2"	2-1/4"
Rounding Over Bit	34-120	1"	1/2"	1/2"	-	-	1/4"	1/2"	2-1/2"
Roman Ogee Bit	38-106	1-3/8"	3/8"	1/2"	-	-	5/32"	1/2"	2-3/8"
Bearing Flush Trim Bit	42-109	1/2"	1/2"	1/2"	2	-	-	1/2"	2-7/8"
"V" Grooving Bit	20-108	3/4"	-	1/2"	-	90°	-	1/2"	2-1/4"



91-108



04-104 / 04-124  
12-116 / 12-108



16-100 / 16-110



22-104 / 22-112



32-100 / 32-102



34-110 / 34-120



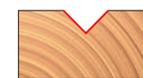
38-100 / 38-106



42-104 / 42-109



70-100



20-108

## 5-Piece Introductory Bit Set

BIT TYPE	ITEM NO.	OVERALL DIA.	BEARING DIA.	CARBIDE HEIGHT	NO. OF FLUTES	MINOR HEIGHT	SHANK DIA.	OVERALL LENGTH
<b>Item Number 91-103</b>								
Bearing Flush Trim Bit	42-110	1/2"	1/2"	1"	2	-	1/2"	3-1/4"
Double Flute Straight Bit	12-100	1/4"	-	3/4"	2	-	1/2"	2-3/8"
Roman Ogee Bit	38-104	1-1/16"	3/8"	1/2"	-	5/32"	1/2"	2-3/8"
Rounding Over Bit	34-124	1-1/4"	1/2"	5/8"	-	3/8"	1/2"	2-5/8"
**Beading Bit	36-124	1-1/4"	3/8"	5/8"	-	3/8"	1/2"	2-5/8"



42-110



12-100



91-103



34-124



38-104



36-124\*

## ROUTER BIT SETS

### USE IN



Table Router Hand Router

### APPLICATION

Fundamental bit set for novice woodworkers. Introduction to the wide possibilities offered by your 1/2" collet router. Includes a flush trim, straight, Roman ogee, and rounding over bit.

### MATERIALS



Hardwood Softwood Laminate

MDF Plywood

ROUTER BITS

## 5-Piece Up Spiral Bit Set

BIT TYPE	ITEM NO.	OVERALL DIA.	CARBIDE HEIGHT	SHANK DIA.	OVERALL LENGTH
<b>Item Number 90-150</b>					
Up Spiral Bit*	75-101	3/16"	3/4"	1/4"	2-1/4"
Up Spiral Bit*	75-102	1/4"	1"	1/4"	2-1/2"
Up Spiral Bit*	75-104	5/16"	1"	1/2"	3"
Up Spiral Bit*	75-106	3/8"	1-1/4"	1/2"	3"
Up Spiral Bit*	75-108	1/2"	1-1/4"	1/2"	3"



75-101 / 75-102  
75-104 / 75-106  
75-108



90-150

## ROUTER BIT SETS

### USE IN



Table Router

Hand Router CNC

### APPLICATION

Quickly create grooves, mortises, and dados with chip removal

### MATERIALS



Hardwood Softwood

MDF Plywood

\*\* Use included bearing 62-104 to convert 34-124 Beading Bit into 36-124 Rounding Over Bit.

Red Item Numbers Indicate 1/2" Shank

\* Solid Carbide

All Profile Drawings 1:1 Scale

**freud**® 251

# ROUTER BIT SETS

## USE IN



## APPLICATION

Create chip-free top surface mortises and dados. Ideal choice for grooves and dados in delicate materials.

## MATERIALS



ROUTER BITS

## 5-Piece Down Spiral Bit Set

BIT TYPE	ITEM NO.	OVERALL DIA.	CARBIDE HEIGHT	SHANK DIA.	OVERALL LENGTH
Item Number 90-160					
Down Spiral Bit*	76-101	3/16"	3/4"	1/4"	2-1/4"
Down Spiral Bit*	76-102	1/4"	1"	1/4"	2-1/2"
Down Spiral Bit*	76-104	5/16"	1"	1/2"	2-1/2"
Down Spiral Bit*	76-106	3/8"	1-1/4"	1/2"	3"
Down Spiral Bit*	76-108	1/2"	1-1/4"	1/2"	3"



91-160



76-101 / 76-102  
76-104 / 76-106  
76-108

# ROUTER BIT SETS

## USE IN



## APPLICATION

Creates perfectly fitted grooves and dados. Designed to cut today's undersized plywood; ideal for 1/4" to 3/4" plywood.

## MATERIALS



## 3-Piece Undersized Plywood Bit Set

BIT TYPE	ITEM NO.	OVERALL DIA.	CARBIDE HEIGHT	SHANK DIA.	OVERALL LENGTH
Item Number 89-660 (3 pc. 1/4" Shank Set)					
Double Flute Straight Bit*	04-111	7/32"	3/4"	1/4"	2"
Mortising Bit	16-098	15/32"	1/2"	1/4"	2"
Mortising Bit**	16-103	23/32"	1/2"	1/4"	1-3/4"
Item Number 89-670 (3 pc. 1/2" Shank Set)					
Down Shear Mortising Bit**	16-094	7/32"	1/2"	1/2"	2-1/4"
Down Shear Mortising Bit**	16-109	15/32"	1/2"	1/2"	2-1/4"
Mortising Bit**	16-116	23/32"	3/8"	1/2"	2-1/8"

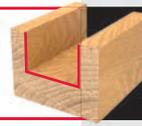


89-670



04-111 / 16-098  
16-103 / 16-094  
16-109 / 16-116

## 4-Piece Undersized Plywood Bit Set



# ROUTER BIT SETS

BIT TYPE	ITEM NO.	OVERALL DIA.	CARBIDE HEIGHT	SHANK DIA.	OVERALL LENGTH
<b>Item Number 90-106 (4 pc. 1/4" Shank Set)</b>					
Double Flute Straight Bit*	04-111	7/32"	3/4"	1/4"	2"
Mortising Bit	16-103	23/32"	1/2"	1/4"	1-3/4"
Mortising Bit	16-096	11/32"	1/2"	1/4"	2"
Mortising Bit**	16-098	15/32"	1/2"	1/4"	2"
<b>Item Number 89-650 (4 pc. 1/2" Shank Set)</b>					
Down Shear Mortising Bit**	16-094	7/32"	1/2"	1/2"	2-1/4"
Down Shear Mortising Bit**	16-107	11/32"	1/2"	1/2"	2-1/4"
Down Shear Mortising Bit**	16-109	15/32"	1/2"	1/2"	2-1/4"
Mortising Bit**	16-116	23/32"	3/8"	1/2"	2-1/8"



16-103 / 16-069  
 16-098 / 04-111  
 16-094 / 16-107  
 16-109 / 16-116



89-650

### USE IN



Table Router Hand Router

### APPLICATION

Creates perfectly fitted grooves and dados. Designed to cut today's undersized plywood; ideal for 1/4" to 3/4" plywood.

### MATERIALS



Hardwood

Softwood

MDF

Plywood

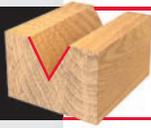
ROUTER BITS

\* Solid Carbide  
 \*\* Down Shear Design

Red Item Numbers Indicate 1/2" Shank

All Profile Drawings 1:1 Scale

# ROUTER BIT SETS



## 8-Piece General Purpose Bit Set

### USE IN



Table Router

Hand Router

CNC

### APPLICATION

Engraving, 2D & 3D carving, grooving, sign making and sizing material. Whether starting out with your first CNC or expanding the range and quality of an existing bit collection, you will find plenty of projects to tackle with Freud's 1/4" shank General Purpose Set. Specifically designed for CNC Makers to deliver long cutting life, maximum durability and high quality finish.

### MATERIALS



Hardwood Softwood Plastic

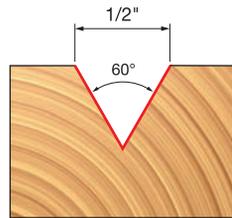
MDF Plywood Aluminum

ROUTER BITS

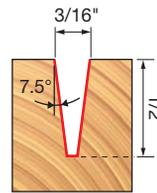
BIT TYPE	ITEM NO.	OVERALL DIA.	CUTTING LENGTH	SHANK DIA.	OVERALL LENGTH
<b>Item Number 87-108 (8-Piece General Purpose Set)</b>					
Carbide Tipped "V" Grooving Bit	20-104	1/2"	7/6"	1/4"	1-3/4"
"V" Grooving Bit*	20-152	1/2"	1/2"	1/4"	2"
Engraving V-Groove Bit*	70-103	3/16"	1/2"	1/4"	1-11/16"
O-Flute Straight Bit*	71-040	1/8"	1/2"	1/4"	2"
Upcut Spiral Ball Nose*	72-101	1/4"	1/2"	1/4"	2-1/2"
O-Flute Up Spiral Bit*	73-762	1/8"	1/2"	1/4"	2"
O-Flute Up Spiral Bit*	75-025	1/4"	7/8"	1/4"	2-1/2"
Up Spiral Bit*	75-101	3/16"	3/4"	1/4"	2-1/4"



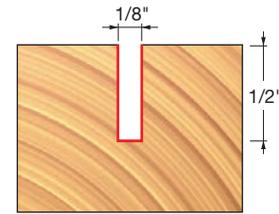
87-108



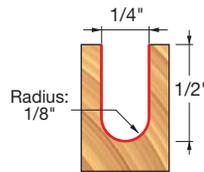
20-152



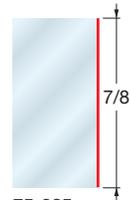
70-103



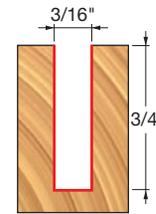
71-040



72-101

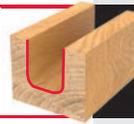


75-025



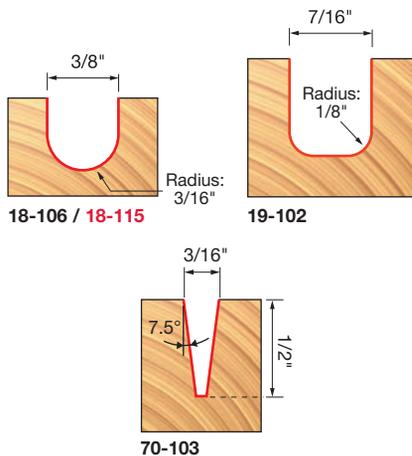
75-101

## 3-Piece Lettering & Sign Bit Set



## ROUTER BIT SETS

BIT TYPE	ITEM NO.	OVERALL DIA.	CUTTING LENGTH	SHANK DIA.	OVERALL LENGTH
<b>Item Number 87-408 (3-Piece Lettering &amp; Sign Set)</b>					
Round Nose Bit	18-106	1/2"	3/8"	1/4"	1-13/16"
Dish Carving	19-102	7/16"	1/2"	1/4"	2"
Engraving V-Groove Bit	70-103	3/16"	1/2"	1/4"	1-11/16"



### USE IN



Table Router



Hand Router



CNC

### APPLICATION

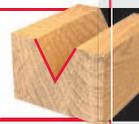
Sign lettering, relief carving, engraving, 2D and 3D carving

### MATERIALS



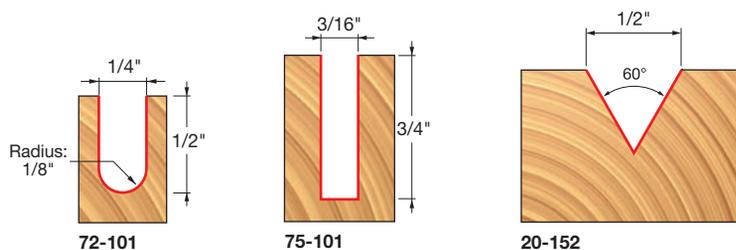
ROUTER BITS

## 3-Piece Carving Bit Set



## ROUTER BIT SETS

BIT TYPE	ITEM NO.	OVERALL DIA.	CUTTING LENGTH	SHANK DIA.	OVERALL LENGTH
<b>Item Number 87-608 (3-Piece Carving Set)</b>					
Up Cut Spiral Ball Nose	72-101	1/4"	1/2"	1/4"	2-1/2"
Up Spiral Bit	75-101	3/16"	3/4"	1/4"	2-1/4"
V-Grooving Bit	20-152	1/2"	1/2"	1/4"	2"



### USE IN



Table Router



Hand Router



CNC

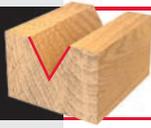
### APPLICATION

Engraving, 2D & 3D carving, grooving, sign making and sizing material

### MATERIALS



# ROUTER BIT SETS



## 3-Piece CNC Fine Detail Set

### USE IN



Table Router

Hand Router

CNC

### APPLICATION

Sign lettering, relief carving, engraving, 2D and 3D Carving. Bit design allows you to make fast cuts with very efficient chip and dust evacuation.

### MATERIALS



Hardwood

Softwood

Plastic

MDF

Plywood

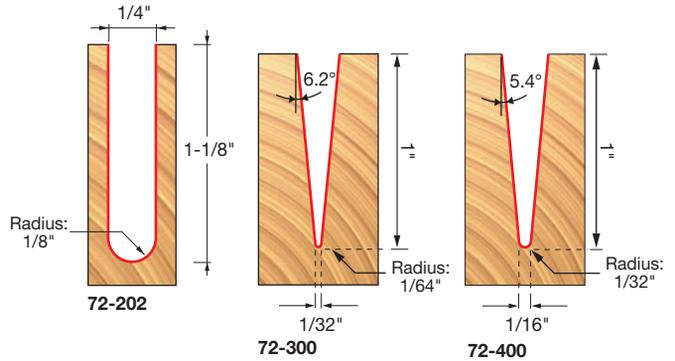
Aluminum

ROUTER BITS

BIT TYPE	ITEM NO.	OVERALL DIA.	CUTTING LENGTH	ANGLE	SHANK DIA.	OVERALL LENGTH
Item Number 87-308 (3-Piece CNC Fine Detail Set)						
Tapered Ball Tip	72-400	1/16"	1"	5.4°	1/4"	3"
Tapered Ball Tip	72-300	1/32"	1"	-	1/4"	3"
Up Cut Spiral Ball Nose	72-202	1/4"	1-1/8"	-	1/4"	3"



87-308



# ROUTER BIT SETS



## 4-Piece Radius "V" Grooving Bit Set

### USE IN



Table Router

Hand Router

CNC

### APPLICATION

Engraving, 2D & 3D carving, grooving, sign making and sizing material. Radius V-Groove Bits give your workpiece a V-Groove Shape with rounded top edge.

### MATERIALS



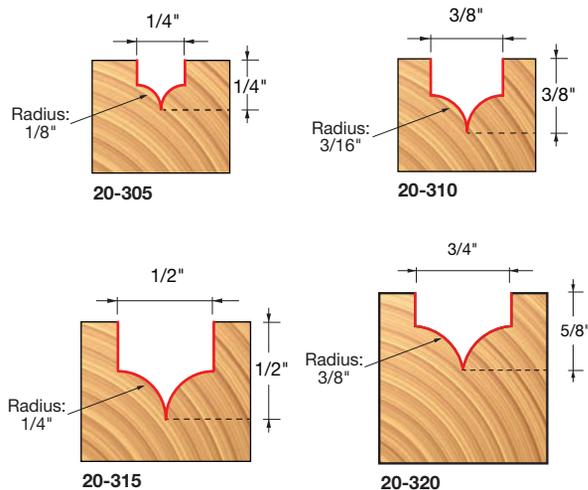
Hardwood

Softwood

MDF

Plywood

ITEM NO.	OVERALL DIA.	CUTTING LENGTH	ANGLE	SHANK DIA.	OVERALL LENGTH
Item Number 87-115 (4-Piece Radius "V" Grooving Bits)					
20-305*	3/16"	1/2"	7.5°	1/4"	1-11/16"
20-310*	1/4"	-	15°	1/4"	2-12"
20-315*	1/4"	-	30°	1/4"	2"
20-320*	1/4"	-	60°	1/4"	2"



# 8-Piece Sign Making Bit Set



## ROUTER BIT SETS

BIT TYPE	ITEM NO.	OVERALL DIA.	CUTTING LENGTH	SHANK DIA.	OVERALL LENGTH
<b>Item Number 87-208 (8-Piece Sign Making Bit Set)</b>					
Carbide Tipped "V" Grooving Bit	20-108	3/4"	1/2"	1/2"	2-1/4"
"V" Grooving Bit*	20-152	3/4"	1/2"	1/4"	2"
Upcut Spiral Ball Nose	72-101	1/4"	1/2"	1/4"	2-1/2"
Upcut Spiral Ball Nose	72-202	1/4"	1/2"	1/4"	3"
Tapered Ball Tip Bit*	72-300	1/32"	1"	1/4"	3"
Tapered Ball Tip Bit*	72-400	1/16"	1"	1/4"	3"
Up Spiral Bit*	75-102	1/4"	1"	1/4"	2-1/2"
Down Spiral Bit*	76-100	1/8"	1/2"	1/4"	2"

### USE IN



Table Router



Hand Router



CNC

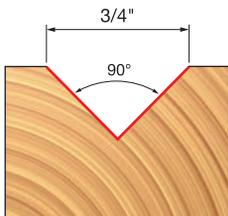
### APPLICATION

Sign lettering, relief carving, engraving, 2D and 3D Carving. Specifically designed for CNC Makers to deliver long cutting life, maximum durability and high quality finish.

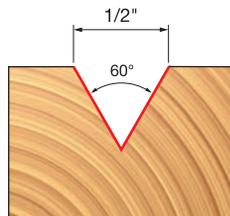
### MATERIALS



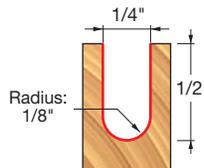
87-208



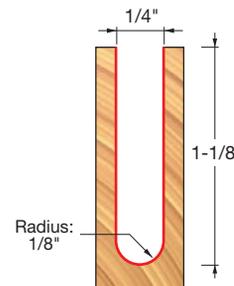
20-108



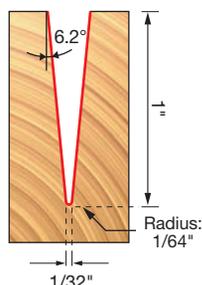
20-152



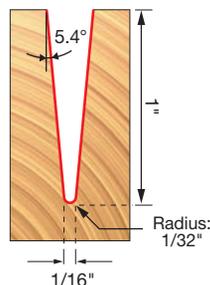
72-101



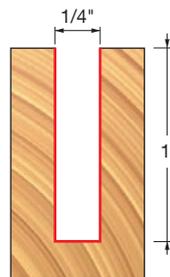
72-202



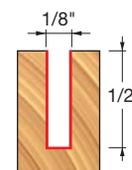
72-300



72-400



75-102



76-100

\* Solid Carbide

Red Item Numbers Indicate 1/2" Shank

All Profile Drawings 1:1 Scale

# ROUTER BIT SETS



## 6-Piece Starter Bit Set

### USE IN



Table Router Hand Router

### APPLICATION

Includes a variety of profiles ideal for the beginning woodworker. Enables a novice woodworker to be very creative with a minimum investment.



### MATERIALS

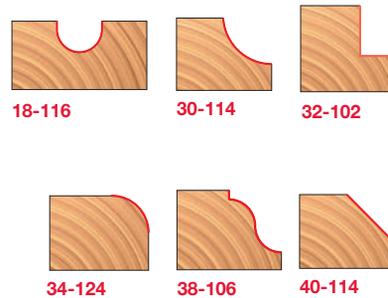


ROUTER BITS

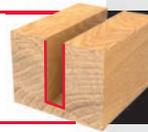
BIT TYPE	ITEM NO.	OVERALL DIA.	BEARING DIA.	CARBIDE HEIGHT	NO. OF FLUTES	LARGE RADIUS	SHANK DIA.	OVERALL LENGTH
<b>Item Number 91-104 (6 pc. 1/2" Shank Set)</b>								
Round Nose Bit	18-116	1/2"	-	1-1/8"	-	1/4"	1/2"	2-13/16"
Cove Bit	30-114	1-1/2"	1/2"	5/8"	-	1/2"	1/2"	2-1/2"
Rabbeting Bit	32-102	1-1/4"	1/2"	1/2"	-	-	1/2"	2-1/4"
Rounding Over Bit	34-124	1-1/4"	1-1/2"	5/8"	-	3/8"	1/2"	2-5/8"
Roman Ogee Bit	38-106	1-3/8"	3/8"	23/32"	-	1/4"	1/2"	2-9/16"
Chamfer Bit	40-114	1-3/4"	1/2"	5/8"	45°	-	1/2"	2-9/16"



91-104



# 15-Piece Advanced Bit Set



## ROUTER BIT SETS

BIT TYPE	ITEM NO.	OVERALL DIA.	BEARING DIA.	CARBIDE HEIGHT	NO. OF FLUTES	ANGLE	LARGE RADIUS	SHANK DIA.	OVERALL LENGTH
Item Number 90-100									
Double Flute Straight Bit*	04-106	1/4"	-	3/4"	-	-	-	1/4"	2-1/4"
Double Flute Straight Bit	04-140	3/4"	-	3/4"	-	-	-	1/4"	2-1/8"
Mortising Bit	16-100	1/2"	-	1/2"	-	-	-	1/4"	2"
Round Nose Bit*	18-104	1/4"	-	3/8"	-	-	1/8"	1/4"	2"
"V" Grooving Bit	20-104	1/2"	-	7/16"	-	90°	-	1/4"	1-3/4"
Dovetail Bit	22-104	1/2"	-	1/2"	-	14°	-	1/4"	1-7/8"
Panel Pilot Bit	26-100	1/4"	-	3/4"	1	-	-	1/4"	2-1/4"
Cove Bit	30-106	1-3/8"	3/8"	5/8"	-	-	1/2"	1/4"	2-3/16"
Rabbeting Bit	32-100	1-1/4"	1/2"	1/2"	-	-	-	1/4"	2"
Rounding Over Bit	34-114	1-1/4"	1/2"	5/8"	-	-	3/8"	1/4"	2-3/16"
Roman Ogee Bit	38-100	1-1/16"	3/8"	1/2"	-	-	5/32"	1/4"	2-3/16"
Chamfer Bit	40-106	1-3/4"	1/2"	5/8"	-	45°	-	1/4"	2-3/16"
Bearing Flush Trim Bit	42-106	1/2"	1/2"	1/2"	2	-	-	1/4"	2-1/8"
Flush Trim Bit*	64-100	1/4"	-	3/8"	-	-	-	1/4"	1-1/2"
Bevel Trim Bit*	66-100	1/4"	3/16"	1/4"	-	7°	-	1/4"	1-1/2"

### USE IN



Table Router Hand Router

### APPLICATION

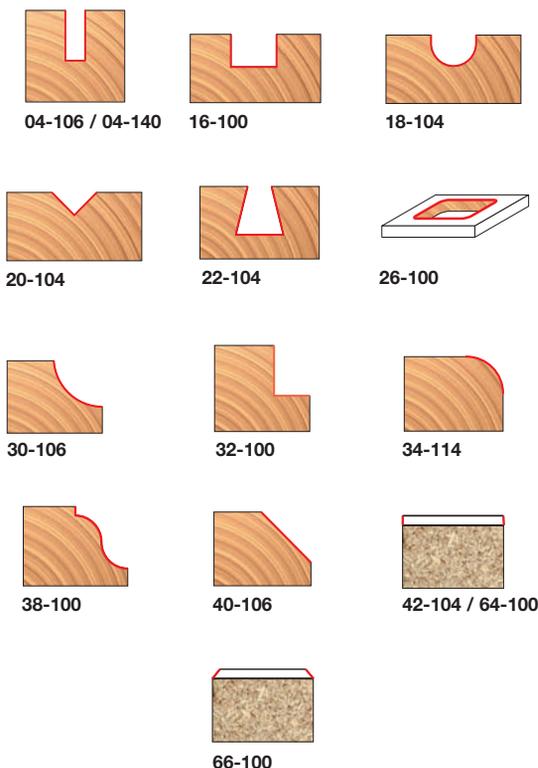
Offers a variety of useful bits, from "V" grooving and flush trimming to chamfering and dovetailing



### MATERIALS



ROUTER BITS



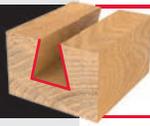
90-100

\* Solid Carbide

Red Item Numbers Indicate 1/2" Shank

All Profile Drawings 1:1 Scale

# ROUTER BIT SETS



## 26-Piece Artisan Bit Set

### USE IN



Table Router Hand Router

### APPLICATION

The best set for the professional and serious woodworker. Offers the craftsman a wide range of bits, including: "V" grooving, rounding over, Roman ogee, flush trim, chamfer and many other popular profiles.



### MATERIALS



ROUTER BITS

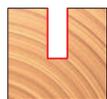
BIT TYPE	ITEM NO.	OVERALL DIA.	BEARING DIA.	CARBIDE HEIGHT	NO. OF FLUTES	ANGLE	LARGE RADIUS	SHANK DIA.	OVERALL LENGTH
<b>Item Number 92-100</b>									
Double Flute Straight Bit*	04-100	1/8"	-	3/8"	-	-	-	1/4"	1-3/4"
Double Flute Straight Bit*	04-106	1/4"	-	3/4"	-	-	-	1/4"	2-1/4"
Double Flute Straight Bit*	04-108	1/4"	-	1"	-	-	-	1/4"	2-1/2"
Double Flute Straight Bit	04-140	3/4"	-	3/4"	-	-	-	1/4"	2-1/8"
Mortising Bit	16-100	1/2"	-	1/2"	-	-	-	1/4"	2"
Round Nose Bit*	18-104	1/4"	-	3/8"	-	-	1/8"	1/4"	2"
Round Nose Bit	18-106	3/8"	-	3/8"	-	-	3/16"	1/4"	1-13/16"
"V" Grooving Bit*	20-100	1/4"	-	1/4"	-	90°	-	1/4"	1-1/2"
"V" Grooving Bit	20-104	1/2"	-	7/16"	-	90°	-	1/4"	1-3/4"
Dovetail Bit	22-104	1/2"	-	1/2"	-	14°	-	1/4"	1-7/8"
Panel Pilot Bit*	26-100	1/4"	-	3/4"	1	-	-	1/4"	2-1/4"
Cove Bit	30-102	7/8"	3/8"	1/2"	-	-	1/4"	1/4"	2-3/16"
Cove Bit	30-106	1-1/2"	1/2"	5/8"	-	-	1/2"	1/4"	2-3/16"
Rabbeting Bit	32-100	1-1/4"	1/2"	1/2"	-	-	-	1/4"	2"
Rounding Over Bit	34-110	1"	1/2"	1/2"	-	-	1/4"	1/4"	2-3/16"
Rounding Over Bit	34-114	1-1/4"	1/2"	1/4"	-	-	3/8"	1/4"	2-3/16"
Beading Bit	36-110	1"	3/8"	1/2"	-	-	1/4"	1/4"	2-3/16"
Beading Bit	36-114	1-1/4"	3/8"	5/8"	-	-	3/8"	1/4"	2-3/16"
Roman Ogee Bit	38-100	1-1/16"	3/8"	1/2"	-	-	5/32"	1/4"	2-3/16"
Roman Ogee Bit	38-102	1-3/8"	3/8"	23/32"	-	-	1/4"	1/4"	2-3/8"
Chamfer Bit	40-106	1-3/4"	1/2"	1/4"	-	45°	-	1/4"	2-3/16"
Bearing Flush Trim Bit	42-100	3/8"	3/8"	1"	2	-	-	1/4"	2-13/16"
Bearing Flush Trim Bit	42-104	1/2"	1/2"	1"	2	-	-	1/4"	2-13/16"
Bearing Flush Trim Bit	42-106	1/2"	1/2"	1/2"	2	-	-	1/4"	2-1/8"
Flush Trim Bit*	64-100	1/4"	-	3/8"	-	-	-	1/4"	1-1/2"
Bevel Trim Bit*	66-100	1/4"	3/16"	1/4"	-	7°	-	1/4"	1-1/2"

# 26-Piece Artisan Bit Set



## ROUTER BIT SETS

CONTINUED



04-104 / 04-106  
04-108 / 04-140



16-100



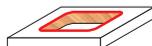
18-104 / 18-106



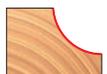
20-100 / 20-104



22-104



26-100



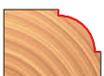
30-102 / 30-106



32-100



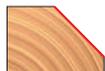
34-110 / 34-114



36-110 / 36-114



38-100 / 38-102



40-106



42-100 / 42-104  
42-106 / 64-100



66-100



92-100

### USE IN



Table Router Hand Router

### APPLICATION

The best set for the professional and serious woodworker. Offers the craftsman a wide range of bits, including: "V" grooving, rounding over, Roman ogee, flush trim, chamfer and many other popular profiles.



### MATERIALS



Hardwood



Softwood



MDF



Plywood

ROUTER BITS

# ROUTER BIT SETS



## 13-Piece Super Bit Set

### USE IN



Table Router Hand Router

### APPLICATION

Offers a mix of woodworkers' favorite bits, including "V" grooving, flush trimming, chamfering and dovetailing



### MATERIALS



ROUTER BITS

BIT TYPE	ITEM NO.	OVERALL DIA.	BEARING DIA.	CARBIDE HEIGHT	NO. OF FLUTES	ANGLE	LARGE RADIUS	SHANK DIA.	OVERALL LENGTH
<b>Item Number 91-100</b>									
Double Flute Straight Bit	12-100	1/4"	-	3/4"	-	-	-	1/2"	2-3/8"
Double Flute Straight Bit	12-116	1/2"	-	1"	-	-	-	1/2"	2-5/8"
Double Flute Straight Bit	12-152	3/4"	-	1"	-	-	-	1/2"	2-1/2"
Mortising Bit	16-110	1/2"	-	1/2"	-	-	-	1/2"	2-3/8"
Round Nose Bit	18-114	1/4"	-	3/8"	-	-	1/8"	1/2"	2-1/4"
"V" Grooving Bit	20-108	3/4"	-	1/2"	-	90°	-	1/2"	2-1/4"
Dovetail Bit	22-112	1/2"	-	1/2"	-	14°	-	1/2"	2-1/4"
Cove Bit	30-114	1-1/2"	1/2"	5/8"	-	-	1/2"	1/2"	2-1/2"
Rabbeting Bit	32-102	1-1/4"	1/2"	1/2"	-	-	-	1/2"	2-1/4"
Rounding Over Bit	34-124	1-1/4"	1/2"	5/8"	-	-	3/8"	1/2"	2-5/8"
Roman Ogee Bit	38-106	1-3/8"	3/8"	23/32"	-	-	1/4"	1/2"	2-9/16"
Chamfer Bit	40-114	1-3/4"	1/2"	5/8"	-	45°	-	1/2"	2-9/16"
Bearing Flush Trim Bit	42-110	1/2"	1/2"	1"	2	-	-	1/2"	3-1/4"



91-100



12-100 / 12-116  
12-152



16-110



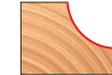
18-114



20-108



22-112



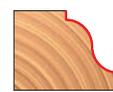
30-114



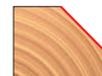
32-102



34-124



38-106



40-114



42-110

# 3-Piece Premier Adjustable Cabinet Bit Set

# ROUTER BIT SETS



USE IN



Table Router

## APPLICATION

These sets combine a Premier Adjustable Rail & Stile Bit Set with a Quadra-Cut Raised Panel Bit. Use with stock from 5/8" to 1-1/4" thick.



## MATERIALS



Hardwood

Softwood

MDF

Plywood

ROUTER BITS

BIT TYPE	ITEM NO.	DESCRIPTION	OVERALL DIA.	CARBIDE HEIGHT	LARGE RADIUS	SHANK DIA.	OVERALL LENGTH
<b>Item Number 97-150</b>							
Rail & Stile Bit Set	99-760	Round Over	1-11/16"	-	7/32"	1/2"	3-3/4"
Quadra-Cut™ Raised Panel Bit	99-515	Bevel	3-1/2"	5/8"	-	1/2"	2-1/2"
<b>Item Number 97-152</b>							
Rail & Stile Bit Set	99-760	Round Over	1-11/16"	-	7/32"	1/2"	3-3/4"
Quadra-Cut™ Raised Panel Bit	99-518	Cove	3-1/2"	5/8"	1-1/2"	1/2"	2-1/2"
<b>Item Number 97-154</b>							
Rail & Stile Bit Set	99-760	Round Over	1-11/16"	11/16"	7/32"	1/2"	3-3/4"
Quadra-Cut™ Raised Panel Bit	99-520	Ogee	3-1/2"	5/8"	25/32"	1/2"	2-1/2"
<b>Item Number 97-250</b>							
Rail & Stile Bit Set	99-761	Ogee	1-11/16"	23/32"	13/64"	1/2"	3-3/4"
Quadra-Cut™ Raised Panel Bit	99-515	Bevel	3-1/2"	5/8"	-	1/2"	2-1/2"
<b>Item Number 97-252</b>							
Rail & Stile Bit Set	99-761	Ogee	1-11/16"	23/32"	13/64"	1/2"	3-3/4"
Quadra-Cut™ Raised Panel Bit	99-518	Cove	3-1/2"	5/8"	1-1/2"	1/2"	2-1/2"
<b>Item Number 97-254</b>							
Rail & Stile Bit Set	99-761	Ogee	1-11/16"	23/32"	13/64"	1/2"	3-3/4"
Quadra-Cut™ Raised Panel Bit	99-520	Ogee	3-1/2"	5/8"	25/32"	1/2"	2-1/2"
<b>Item Number 97-276</b>							
Rail & Stile Bit Set	99-761	Ogee	1-11/16"	23/32"	13/64"	1/2"	3-3/4"
Quadra-Cut™ Raised Panel Bit	99-513	Roman Ogee	2-3/4"	5/8"	7/16"	1/2"	2-1/2"

## Cabinet Sets with Backcutters

<b>Item Number 97-156 (Raised Panel Bit With Backcutters)</b>							
Rail & Stile Bit Set	99-760	Round Over	1-11/16"	11/16"	7/32"	1/2"	3-3/4"
Quadra-Cut™ Raised Panel Bit	99-566	Bevel with Backcutter	3-1/2"	1"	-	1/2"	3"
<b>Item Number 97-158 (Raised Panel Bit With Backcutters)</b>							
Rail & Stile Bit Set	99-760	Round Over	1-11/16"	11/16"	7/32"	1/2"	3-3/4"
Quadra-Cut™ Raised Panel Bit	99-569	Cove with Backcutter	3-1/2"	1"	1-1/2"	1/2"	3"
<b>Item Number 97-258 (Raised Panel Bit With Backcutters)</b>							
Rail & Stile Bit Set	99-761	Ogee	1-11/16"	23/32"	13/64"	1/2"	3-3/4"
Quadra-Cut™ Raised Panel Bit	99-569	Cove with Backcutter	3-1/2"	1"	1-1/2"	1/2"	3"
<b>Item Number 97-260 (Raised Panel Bit With Backcutters)</b>							
Rail & Stile Bit Set	99-761	Ogee	1-11/16"	23/32"	13/64"	1/2"	3-3/4"
Quadra-Cut™ Raised Panel Bit	99-571	Ogee with Backcutter	3-1/2"	1"	1-3/16"	1/2"	3"

Sets Feature  
Freud's Premier  
Adjustable  
Rail & Stile  
Bits



97-158

\* Solid Carbide

Red Item Numbers Indicate 1/2" Shank

All Profile Drawings 1:1 Scale

# ROUTER BIT SETS



## 3-Piece Premier Adjustable Cabinet Bit Set

### USE IN



Table Router

### APPLICATION

These sets combine a premier adjustable rail & stile bit set with a Quadra-Cut raised panel bit. Use with stock from 5/8" to 1-1/4" thick.

### MATERIALS



# ROUTER BIT SETS



## 5-Piece Premier Adjustable Cabinet Bit Set

### USE IN



Table Router

### APPLICATION

Produce your own cabinet doors at a fraction of the cost of shaper heads. All sets feature Freud's premier adjustable rail & stile bits. Designed to be used on 5/8" to 1-1/4" stock.

### MATERIALS



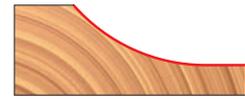
CONTINUED



99-760



99-761



99-518



99-513



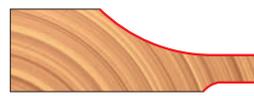
99-515



99-520



99-566



99-569



99-571

# ROUTER BIT SETS



## 5-Piece Premier Adjustable Cabinet Bit Set

### USE IN



Table Router

### APPLICATION

Produce your own cabinet doors at a fraction of the cost of shaper heads. All sets feature Freud's premier adjustable rail & stile bits. Designed to be used on 5/8" to 1-1/4" stock.

### MATERIALS



BIT TYPE	ITEM NO.	OVERALL DIA.	CUT DEPTH	SMALL DIA	CARBIDE HEIGHT	MINOR HEIGHT	LARGE RADIUS	SMALL RADIUS	ANGLE	SHANK DIA.	OVERALL LENGTH
Item Number 94-150											
Door Lip Bit	99-001	2"	29/64"	-	1-1/4"	11/16"	3/8"	-	7°	1/2"	2-3/4"
Reversible Glue Joint Bit	99-031	1-1/2"	-	1-3/16"	1-1/4"	23/64"	-	-	30°	1/2"	2-3/4"
Rail & Stile Bit Set	99-760	1-11/16"	-	-	-	-	7/32"	-	-	1/2"	3-3/4"
Raised Panel Bit (Quadra-Cut™)	99-510	2-3/4"	-	-	5/8"	7/32"	35/64"	1/8"	-	1/2"	2-1/2"



94-150



Sets Feature Freud's Premier Adjustable Rail & Stile Bits



99-760



99-001



99-510



99-031

## 3-Piece Door Construction Set



## ROUTER BIT SETS



USE IN



Table Router

### APPLICATION

Create 1-3/4" thick exterior doors, 1-3/8" interior doors, sidelights or transoms in any style and any size. Capable of producing tenons of any length—perfect for load bearing joints! Both bits include shims for fine-tuning the joint for a continued perfect fit. Perfect for milling fine hardwoods and softwoods, and also produces an excellent cut in other materials.



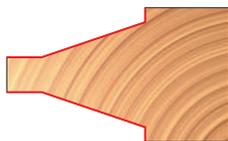
### MATERIALS



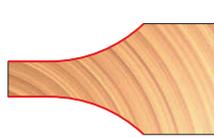
BIT TYPE	ITEM NO.	OVERALL DIA.	CARBIDE HEIGHT	SHANK DIA.	OVERALL LENGTH
<b>Item Number 98-300</b>					
Roundover	99-267	1-3/4"	1-1/2"	1/2"	3"
Quadra-Cut Raised Panel Bit	99-515	3-1/2"	5/8"	1/2"	2-1/2"
<b>Item Number 98-302</b>					
Roundover	99-267	1-3/4"	1-1/2"	1/2"	3"
Quadra-Cut Raised Panel Bit	99-518	3-1/2"	5/8"	1/2"	2-1/2"



99-267



99-515



99-518

ROUTER BITS

# ROUTER BIT SETS



## 2-Piece Wide Crown Molding Bit Set

### USE IN



Table Router

### APPLICATION

Mill your own 5-1/2" wide Crown Molding economically and in your choice of wood and profile. These bits feature a carefully designed shape that lets you mix and match profiles to produce precisely the shape you need – up to nine different profiles from only six bits!

Each 2 pc set includes one popular upper and one lower profile Wide Crown Molding bit.

Mix and match bits for upper and lower profiles to produce nine different designs.

Use only in a router table with minimum 6" high fence, mill in 3 or more passes.

Use featherboards and hold downs to hold stock down & against the fence.

Use pusher blocks or a push stick to feed stock. Make test cuts in scrap stock first.

### MATERIALS



Hardwood

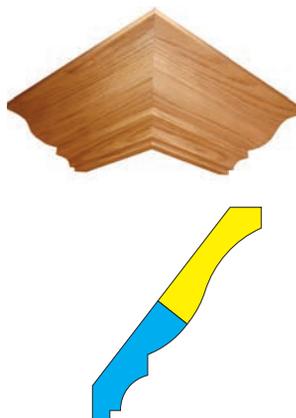


Softwood

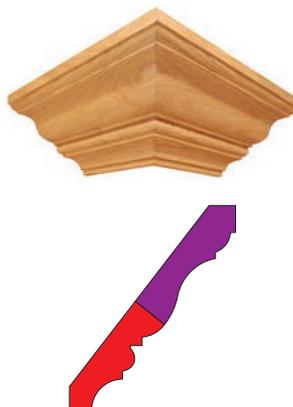
ITEM NUMBER	PROFILE NUMBER	OVERALL DIA.	CARBIDE HEIGHT	SHANK DIA.	OVERALL LENGTH
<b>Item Number 98-507</b>					
99-414	Upper 1	1-5/16"	3"	1/2"	4-7/16"
99-417	Lower 4	1-3/8"	3-1/16"	1/2"	4-9/16"
<b>Item Number 98-509</b>					
99-415	Upper 2	1-3/8"	3-1/16"	1/2"	4-9/16"
99-416	Lower 3	1-13/32"	3"	1/2"	4-7/16"



98-507



98-509



## 3-Piece Round Over/Beading Bit Sets

## ROUTER BIT SETS

BIT TYPE	ITEM NO.	OVERALL DIA.	BEARING DIA.	CARBIDE HEIGHT	LARGE RADIUS	SHANK DIA.	OVERALL LENGTH
<b>Item Number 89-100</b>							
Rounding Over Bit	34-108	7/8"	1/2"	1/2"	3/16"	1/4"	2-3/16"
Rounding Over Bit	34-114	1-1/4"	1/2"	5/8"	3/8"	1/4"	2-3/16"
Rounding Over Bit	34-116	1-1/2"	1/2"	3/4"	1/2"	1/4"	2-1/2"
<b>Item Number 89-150</b>							
Rounding Over Bit	34-120	1"	1/2"	1/2"	1/4"	1/2"	2-1/2"
Rounding Over Bit	34-124	1-1/4"	1/2"	5/8"	3/8"	1/2"	2-5/8"
Rounding Over Bit	34-126	1-1/2"	1/2"	3/4"	1/2"	1/2"	2-3/4"

### USE IN



Table Router Hand Router

### APPLICATION

Rounding over bits soften the edges of fine furniture, while beading bits produce a simple, decorative edge on furniture and moldings. Includes three rounding over bits and a 3/8" bearing which will convert all three bits into beading bits for the ultimate in value.

### MATERIALS



Hardwood

Softwood

MDF

Plywood



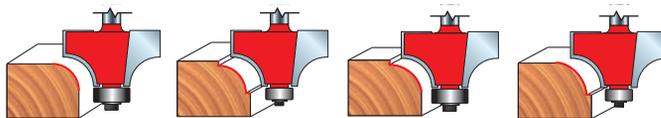
Round Over Profile



Bead Profile



89-150



## 5-Piece Round Over/Beading Bit Sets

## ROUTER BIT SETS

BIT TYPE	ITEM NO.	OVERALL DIA.	BEARING DIA.	CARBIDE HEIGHT	LARGE RADIUS	SHANK DIA.	OVERALL LENGTH
<b>Item Number 89-102</b>							
Rounding Over Bit	34-104	3/4"	1/2"	1/2"	1/8"	1/4"	2-3/16"
Rounding Over Bit	34-108	7/8"	1/2"	1/2"	3/16"	1/4"	2-3/16"
Rounding Over Bit	34-110	1"	1/2"	1/2"	1/4"	1/4"	2-3/16"
Rounding Over Bit	34-114	1-1/4"	1/2"	5/8"	3/8"	1/4"	2-3/16"
Rounding Over Bit	34-116	1-1/2"	1/2"	3/4"	1/2"	1/4"	2-1/2"
<b>Item Number 89-152</b>							
Rounding Over Bit	34-118	3/4"	1/2"	1/2"	1/8"	1/2"	2-1/2"
Rounding Over Bit	34-120	1"	1/2"	1/2"	1/4"	1/2"	2-1/2"
Rounding Over Bit	34-124	1-1/4"	1/2"	5/8"	3/8"	1/2"	2-5/8"
Rounding Over Bit	34-126	1-1/2"	1/2"	3/4"	1/2"	1/2"	2-3/4"
Rounding Over Bit	34-128	2"	1/2"	1"	3/4"	1/2"	2-7/8"

### USE IN



Table Router Hand Router

### APPLICATION

Similar to the Three Piece Sets, these sets offer additional profiles for a wider range of applications. Includes five rounding over bits and a 3/8" bearing which will convert all five bits into beading bits for the ultimate in value.

### MATERIALS



Hardwood

Softwood

MDF

Plywood



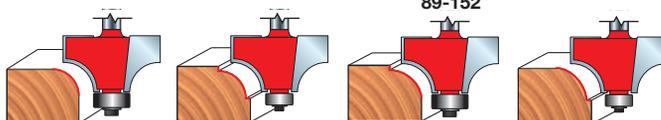
Round Over Profile



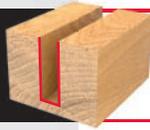
Bead Profile



89-152



# ROUTER BIT SETS



## 8-Piece Bit Sets for Incra Jig®

### USE IN



Table Router



Hand Router



CNC

### APPLICATION

Create dovetail and box joints by combining these bits with your table-mounted router and an Incra Jig®

### MATERIALS



Hardwood



Softwood



MDF



Plywood

ROUTER BITS

BIT TYPE	ITEM NO.	OVERALL DIA.	CARBIDE HEIGHT	ANGLE	SHANK DIA.	OVERALL LENGTH
<b>Item Number 96-100</b>						
Double Flute Straight Bit*	04-106	1/4"	3/4"	-	1/4"	2-1/4"
Double Flute Straight Bit	04-124	3/8"	1"	-	1/4"	2-1/2"
Dovetail Bit	22-100	1/4"	5/16"	7-1/2°	1/4"	2"
Dovetail Bit	22-101	5/16"	3/8"	9°	1/4"	1-7/8"
Dovetail Bit	22-102	3/8"	3/8"	9°	1/4"	1-7/8"
Dovetail Bit	22-104	1/2"	1/2"	14°	1/4"	1-7/8"
Dovetail Bit	22-105	3/8"	7/8"	7°	1/4"	2-1/8"
Dovetail Bit	22-106	3/4"	7/8"	7°	1/4"	2-1/8"
<b>Item Number 96-102</b>						
Double Flute Straight Bit	12-100	1/4"	3/4"	-	1/2"	2-3/8"
Double Flute Straight Bit	12-108	3/8"	1"	-	1/2"	2-5/8"
Dovetail Bit	22-107	1/4"	5/16"	7-1/2°	1/2"	2-5/8"
Dovetail Bit	22-108	5/16"	3/8"	9°	1/2"	2-1/8"
Dovetail Bit	22-110	3/8"	3/8"	9°	1/2"	2-1/4"
Dovetail Bit	22-112	1/2"	1/2"	14°	1/2"	2-1/4"
Dovetail Bit	22-113	5/8"	7/8"	7°	1/2"	2-5/8"
Dovetail Bit	22-114	3/4"	7/8"	7°	1/2"	2-5/8"



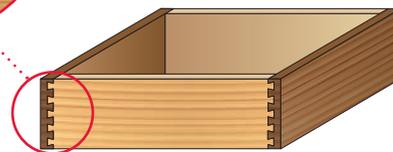
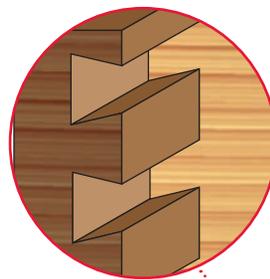
96-100



Double Flute Straight Bit Profile

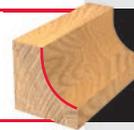


Dovetail Bit Profile



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## 3-Piece Cove Bit Sets



## ROUTER BIT SETS

BIT TYPE	ITEM NO.	OVERALL DIA.	BEARING DIA.	CARBIDE HEIGHT	LARGE RADIUS	SHANK DIA.	OVERALL LENGTH
Item Number 89-550							
Cove Bit	30-110	1"	1/2"	1/2"	1/4"	1/2"	2-1/2"
Cove Bit	30-112	1-1/4"	1/2"	1/2"	3/8"	1/2"	2-1/2"
Cove Bit	30-114	1-1/2"	1/2"	5/8"	1/2"	1/2"	2-1/2"



Cove Bit Profile



89-550

### USE IN



Table Router Hand Router

### APPLICATION

Produces classical decorative edge on furniture and moldings. Includes 1/4", 3/8" and 1/2" radius cove bits and an attractive wooden storage box.

### MATERIALS



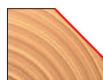
ROUTER BITS

## 3-Piece Chamfer Bit Set



## ROUTER BIT SETS

BIT TYPE	ITEM NO.	OVERALL DIA.	BEARING DIA.	CARBIDE HEIGHT	ANGLE	SHANK DIA.	OVERALL LENGTH
Item Number 89-250							
Chamfer Bit	40-101	1-1/4"	1/2"	7/8"	22-1/2°	1/2"	2-5/8"
Chamfer Bit	40-114	1-3/4"	1/2"	1/2"	45°	1/2"	2-9/16"
Chamfer Bit	40-206	1-11/32"	1/2"	3/4"	30°	1/2"	2-3/4"



Chamfer Bit Profile



89-250

### USE IN



Table Router Hand Router

### APPLICATION

Chamfer bits maintain crisp, geometric lines while forming a uniform bevel on the edge of the work piece. Includes 22-1/2°, 30° and 45° chamfer bits and an attractive wooden storage box.

### MATERIALS



# ROUTER BIT SETS



## 6-Piece Straight Bit Set

### USE IN



Table Router Hand Router

### APPLICATION

Allows you to make grooves, dados, and rabbets. Set includes bits with diameters ranging from 1/4", 3/8", 1/2", 5/8", 3/4", and 1".

### MATERIALS



ROUTER BITS

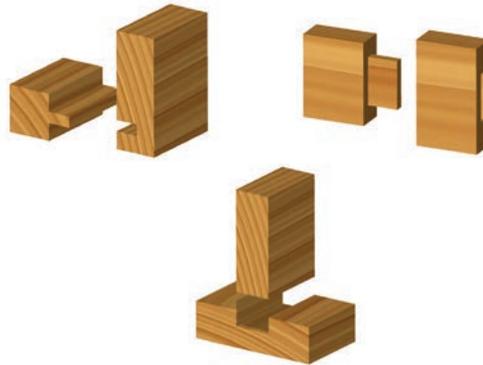
BIT TYPE	ITEM NO.	OVERALL DIA.	CARBIDE HEIGHT	SHANK DIA.	OVERALL LENGTH
Item Number 91-102					
Double Flute Straight Bit	12-100	1/4"	3/4"	1/2"	2-3/8"
Double Flute Straight Bit	12-108	3/8"	1"	1/2"	2-5/8"
Double Flute Straight Bit	12-116	1/2"	1"	1/2"	2-5/8"
Double Flute Straight Bit	12-136	5/8"	1"	1/2"	2-1/2"
Double Flute Straight Bit	12-152	3/4"	1"	1/2"	2-1/2"
Double Flute Straight Bit	12-172	1"	1-1/4"	1/2"	3"



91-102



Double Flute Straight Bit Profile

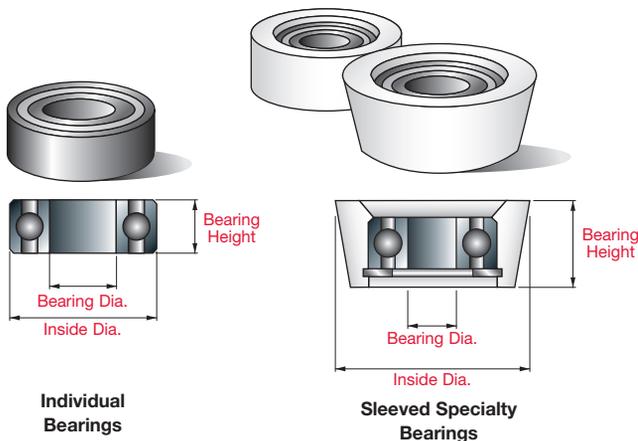
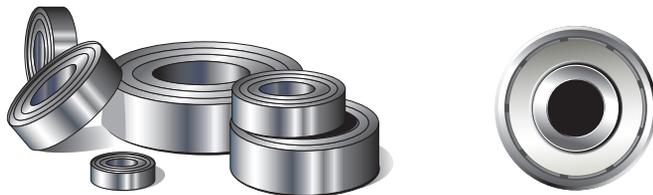


## Ball Bearings

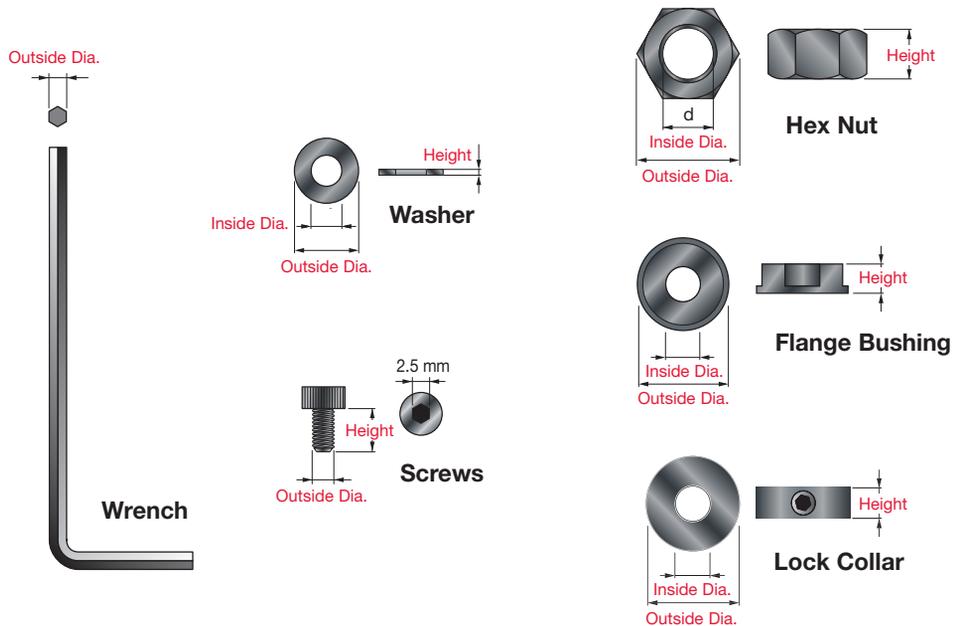
# ROUTER BIT SETS

ROUTER BITS

ITEM NUMBER	INSIDE DIA.	BEARING DIA.	BEARING HEIGHT
<b>Individual Bearings</b>			
62-100	1/8"	3/8"	5/32"
62-102	3/16"	3/8"	1/8"
62-103	1/4"	1/2"	3/16"
62-104	3/16"	1/2"	3/16"
62-105	10mm	19mm	7mm
62-106	1/4"	3/4"	9/32"
62-107	5/16"	7/8"	9/32"
62-108	8mm	22mm	7mm
62-109	15mm	35mm	11mm
62-111	15mm	32mm	9mm
62-112	1/4"	5/8"	3/16"
62-113	3/16"	5/8"	3/16"
62-114	1/2"	1-1/8"	5/16"
62-116	1/2"	1-3/8"	7/16"
62-118	10mm	26mm	8mm
<b>Sleeved Specialty Bearings</b>			
62-110	3/16"	3/4"	5/16"
62-120	5/16"	1"	10mm
62-121	5/16"	1-1/4"	10mm
62-122	5/16"	1-1/2"	10mm
62-124	5/16"	26mm	7mm
62-128	5/16"	30mm	7mm
62-136	17mm	2	10mm
62-139	1/2"	1-1/2"	5/16"
62-144	3/16"	3/4"	12mm
62-146	3/16"	7/8"	12mm
62-148	3/16"	1-1/8"	12mm
62-150	3/16"	1-3/8"	12mm
<b>Packages of Bearings</b>			
62-XXX	Assorted Ball Bearing Set Contains: (1) #62-102, (2) #62-104, (1) #62-108, & (1 wrench) #62-402		



ITEM NO.	DESCRIPTION	OUTSIDE DIA.	HEIGHT	WRENCH SIZE	INSIDE DIA.
62-303	Cap Screw	3mm	6mm	2.5mm	-
62-304	Long Cap Screw	3mm	12mm	2.5mm	-
62-305	Hex Nut	5/16-24UNF	17/64"	1/2"	-
62-306	Medium Cap Screw	3mm	8mm	2.5mm	-
62-307	Washer	-	-	-	3mm
62-309	Washer	-	-	-	5/16"
62-311	Washer	-	-	-	3/8"
62-313	Washer	-	-	-	1/2"
62-321	Flange Bushing	1/4"	3/16"	-	3/16"
62-323	Flange Bushing	5/16"	1/8"	-	3/16"
62-325	Flange Bushing	1/2"	1/8"	-	3/16"
62-331	Lock Collar	15/32"	5/32"	-	1/4"
62-402	Wrench	-	-	2.5mm	-



## Ball Bearing Replacement Chart

# REPLACEMENT PARTS

### Ball Bearing Reference Guide For All Other Freud Router Bits

### Ball Bearing Reference Guide For Quadra-Cut™ 4 Cutter Router Bits

ITEM NO.	BEARING NO.								
16-500	62-103	34-132	62-104	38-622	62-102	48-102	62-104	85-019	62-104
16-502	62-112	34-134	62-104	38-632	62-102	48-112	62-104	85-021	62-106
16-504	62-105	34-136	62-104	39-502	62-105	50-101	62-103	85-023	62-112
16-510	62-105	34-138	62-104	39-504	62-130	50-102	62-103	85-025	62-104
16-522	62-142	34-140	62-104	39-506	62-132	50-103	62-112	85-027	62-106
16-523	62-142	36-100	62-102	39-512	62-105	50-104	62-112	85-029	62-112
16-524	62-142	36-104	62-102	39-514	62-130	50-106	62-105	85-031	62-104
18-508	62-103	36-106	62-102	39-516	62-132	50-122	62-114	99-002	62-104
18-510	62-112	36-108	62-102	39-522	62-105	50-126	62-111	99-003	62-102
18-512	62-106	36-110	62-102	39-524	62-130	50-130	62-139	99-005	62-104
19-506	62-106	36-112	62-102	39-526	62-132	50-138	62-136	99-006	62-104
19-578	62-114	36-114	62-102	39-532	62-105	60-120	62-108	99-008	62-104
20-574	62-114	36-116	62-102	39-534	62-130	60-122	62-108	99-009	62-102
20-502	62-103	36-117	62-102	39-536	62-132	63-100	62-108	99-010	62-104
22-505	62-112	36-118	62-102	39-578	62-140	63-104	62-108	99-011	62-104
22-506	62-105	36-119	62-102	39-580	62-139	63-108	62-108	99-012	62-104
22-507	62-105	36-120	62-102	40-094	62-104	63-109	62-108	99-013	62-104
30-094	62-102	36-122	62-102	40-098	62-104	63-110	62-108	99-014	62-104
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30-109	62-104	36-138	62-102	40-206	62-104	63-161	62-108	99-027	62-104
30-110	62-104	36-140	62-102	41-102	62-104	63-162	62-108	99-028	62-114
30-111	62-104	38-100	62-102	41-104	62-104	80-102	62-104	99-029	62-108
30-112	62-104	38-102	62-102	41-106	62-104	80-104	62-104	99-030	62-108
30-114	62-104	38-104	62-102	41-108	62-102	80-106	62-104	99-035	62-108
30-202	62-104	38-106	62-102	41-110	62-104	80-108	62-104	99-039	62-109
32-096	62-104	38-152	62-104	41-402	62-112	80-122	62-104	99-041	62-108
32-098	62-104	38-154	62-104	42-080	62-108	80-124	62-104	99-041	62-124
32-100	62-104	38-202	62-102	42-090	62-106	80-126	62-104	99-041	62-128
32-101	62-102	38-204	62-102	42-100	62-102	80-128	62-104	99-044	62-104
32-102	62-104	38-250	62-102	42-102	62-102	80-130	62-104	99-051	62-108
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34-130	62-104								

ITEM NO.	BEARING NO.	ITEM NO.	BEARING NO.
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34-116	62-104	38-102	62-102
34-117	62-104	38-104	62-113
34-118	62-104	38-106	62-113
34-119	62-104	38-152	62-104
34-120	62-106	38-154	62-104
34-122	62-106	38-172	62-106
34-124	62-106	38-222	62-112
34-126	62-113	38-224	62-104
34-127	62-113	38-312	62-113
34-128	62-104	38-314	62-104
34-130	62-104	38-352	62-113
34-132	62-104	38-362	62-113
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34-136	62-104	38-614	62-106
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36-120	62-113	99-452	62-104
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36-126	62-104	99-515	62-104
36-126	62-102	99-516	62-104
36-127	62-104	99-518	62-104
36-128	62-102	99-519	62-104
36-130	62-102	99-520	62-104
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36-134	62-102	99-522	62-104
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ROUTER BITS

\* Solid Carbide

Red Item Numbers Indicate 1/2" Shank

All Profile Drawings 1:1 Scale

# SHAPER CUTTERS

Freud's Shaper Cutters and Performance System® Cutters are recognized for their versatility, quality, and innovation. Freud offers the flexibility to choose from a premium cutter that fits every need. The conventional fixed wing shaper cutters and Performance Systems® Cutters with re-sharpenable inserts both feature Freud's exclusive TiCo™ Hi-Density Carbide, Kickback Reducing Design, Shear Angle, and Multi-Axis grinding.

*Freud shaper cutters  
– Precisely The Best.*



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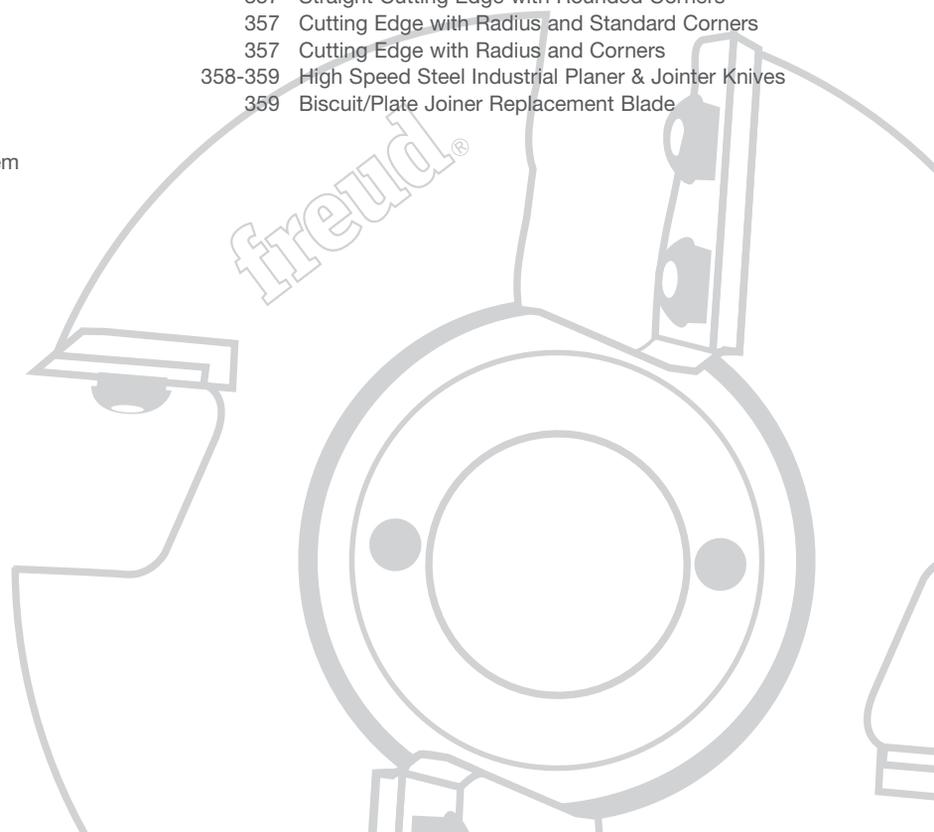
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333	Profile Knife RS-F Glass Panel Door
334	Profile Knife RS-G Raised Panel Door
335	Profile Knife RS-G Glass Panel Door

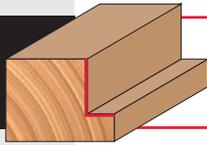
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# FIXED WING CUTTER



## Straight Edge Cutters

### USE IN



Shaper Machine

### APPLICATION

Computer balanced for super smooth, chatter-free cutting. Straight profile for making precise rabbets and dados.

### MATERIALS



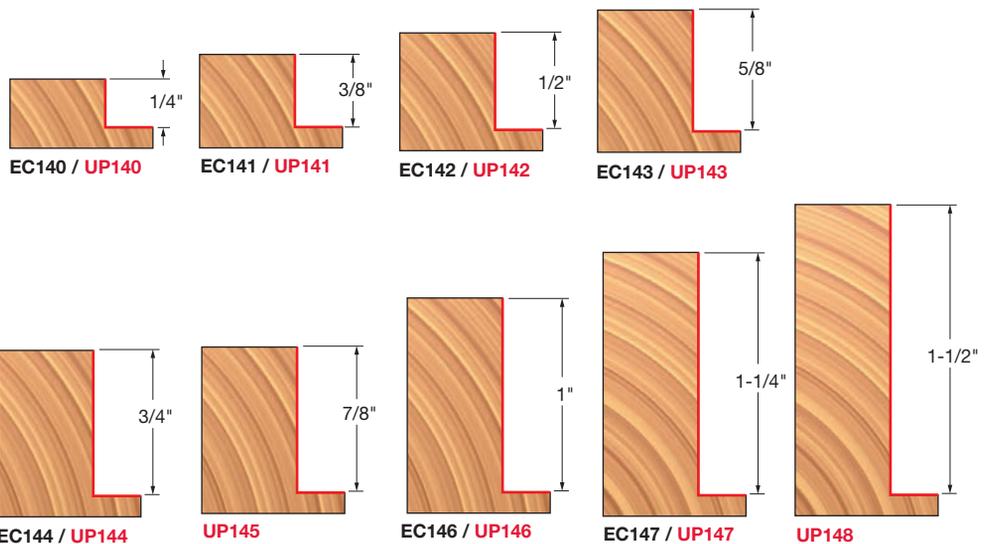
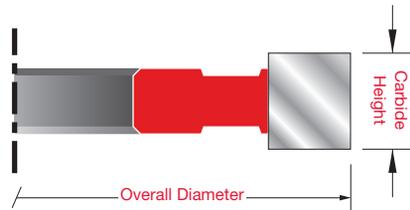
Hardwood

Softwood

MDF

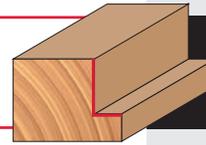
Plywood

ITEM NUMBER	OVERALL DIA.	CARBIDE HEIGHT	BORE DIA.	RUB COLLAR NUMBER
EC140	2-7/8"	1/4"	3/4"	RC-003
EC141	2-7/8"	3/8"	3/4"	RC-003
EC142	2-7/8"	1/2"	3/4"	RC-003
EC143	2-7/8"	5/8"	3/4"	RC-003
EC144	2-7/8"	3/4"	3/4"	RC-003
EC146	2-7/8"	1"	3/4"	RC-003
UP140	3-9/16"	1/4"	1-1/4"	RC50#
UP141	3-9/16"	3/8"	1-1/4"	RC50#
UP142	3-9/16"	1/2"	1-1/4"	RC50#
UP143	3-9/16"	5/8"	1-1/4"	RC50#
UP144	3-9/16"	3/4"	1-1/4"	RC50#
UP145	3-9/16"	7/8"	1-1/4"	RC50#
UP146	3-9/16"	1"	1-1/4"	RC50#
UP147	3-9/16"	1-1/4"	1-1/4"	RC50#
UP148	3-9/16"	1-1/2"	1-1/4"	RC50#
UP149	3-9/16"	1-3/4"	1-1/4"	RC50#
UP150	3-9/16"	2"	1-1/4"	RC50#
UP151	3-9/16"	2-1/4"	1-1/4"	RC50#
UP152	3-9/16"	2-1/2"	1-1/4"	RC50#
UP153	3-9/16"	3"	1-1/4"	RC50#



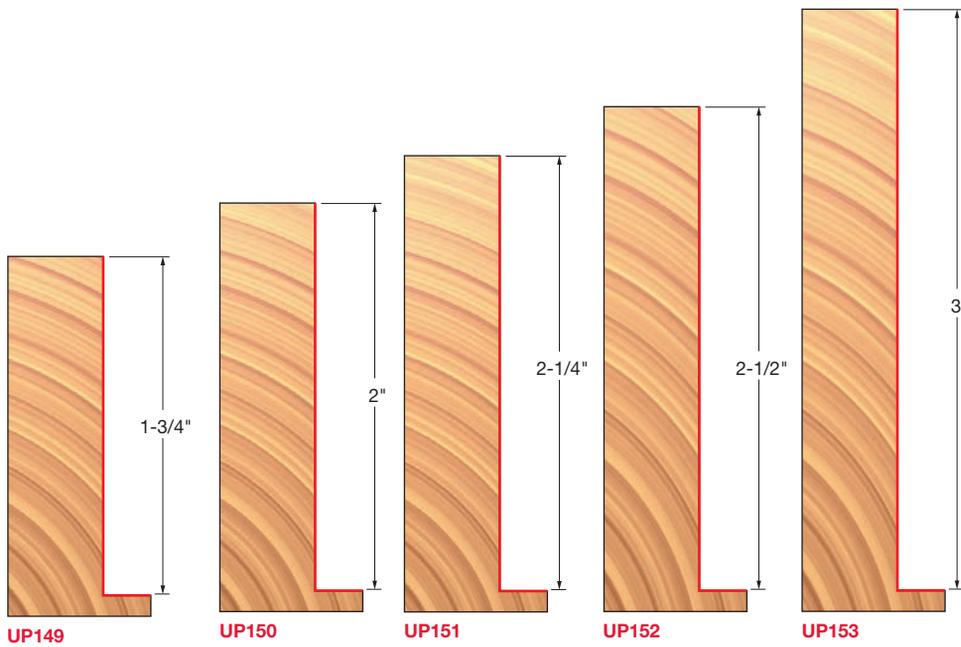
SHAPER CUTTERS

## Straight Edge Cutters



## FIXED WING CUTTER

CONTINUED



### USE IN



Shaper Machine

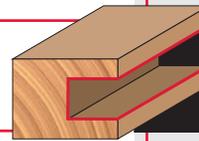
### APPLICATION

Computer balanced for super smooth, chatter-free cutting. Straight profile for making precise rabbets and dados.

### MATERIALS



## Groovers



## FIXED WING CUTTER

ITEM NUMBER	OVERALL DIA.	NUMBER OF WINGS	CARBIDE HEIGHT	BORE DIA.
UP171	4"	6	1/4"	1-1/4"
UP172	4"	6	3/8"	1-1/4"
UP173	4"	6	1/2"	1-1/4"
UP174	4"	6	3/4"	1-1/4"
UP176	6"	8	1/4"	1-1/4"
UP177	6"	8	3/8"	1-1/4"
UP178	6"	8	1/2"	1-1/4"
UP179	6"	8	3/4"	1-1/4"
UP182	8"	12	3/8"	1-1/4"
UP183	8"	12	1/2"	1-1/4"
UP184	8"	12	3/4"	1-1/4"

### USE IN

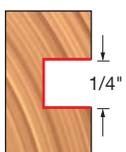
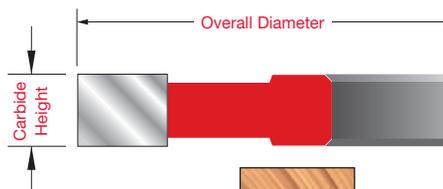


Shaper Machine

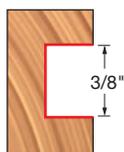
### APPLICATION

Excellent for use on shapers and cope spindles of double end tenoners

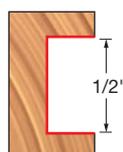
### MATERIALS



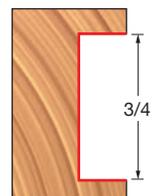
UP171 / UP176



UP172 / UP177 / UP182



UP173 / UP178 / UP183



UP174 / UP179 / UP184

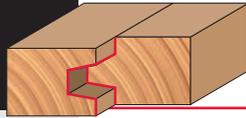
Black Item Numbers Indicate 3/4" Bore

Red Item Numbers Indicate 1-1/4" Bore

All Profile Drawings 1:1 Scale

SHAPER CUTTERS

# FIXED WING CUTTER



## Wedge Tongue & Groove Cutters

### USE IN



Shaper Machine

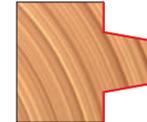
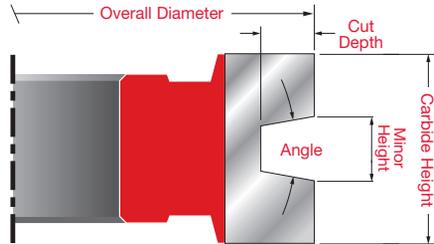
### APPLICATION

Increase the amount of gluing area for maximum strength

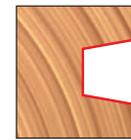
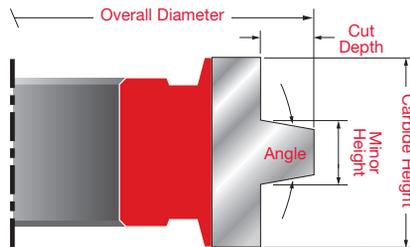
### MATERIALS



ITEM NUMBER	OVERALL DIA.	CUT DEPTH	CARBIDE HEIGHT	MINOR HEIGHT	ANGLE	BORE DIA.
EC032	2-7/8"	5/16"	1-7/64"	3/8"	20°	3/4"
EC033	2-7/8"	5/16"	1-7/64"	3/8"	20°	3/4"
UP032	3-9/16"	5/16"	1-3/32"	3/8"	20°	1-1/4"
UP033	3-9/16"	5/16"	1-3/32"	3/8"	20°	1-1/4"



EC032 / UP032



EC033 / UP033

SHAPER CUTTERS

# FIXED WING CUTTER



## Reversible Glue Joint Cutters

### USE IN



Shaper Machine

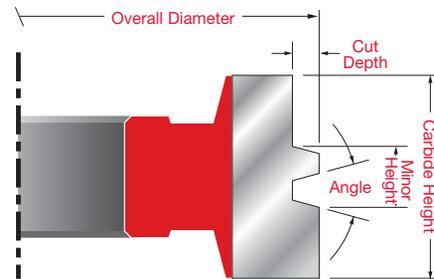
### APPLICATION

Produce a strong joint by increasing the surface area for the glue

### MATERIALS

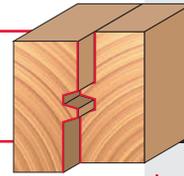


ITEM NUMBER	OVERALL DIA.	CUT DEPTH	CARBIDE HEIGHT	MINOR HEIGHT	ANGLE	BORE DIAMETER
EC031	2-7/8"	5/32"	1-17/64"	23/64"	30°	3/4"
UP031	3-9/16"	5/32"	1-3/16"	23/64"	30°	1-1/4"



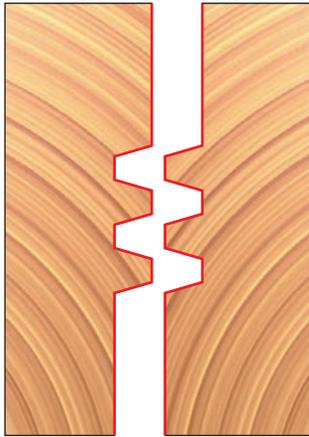
EC031 / UP031

# Glue Joint Cutters

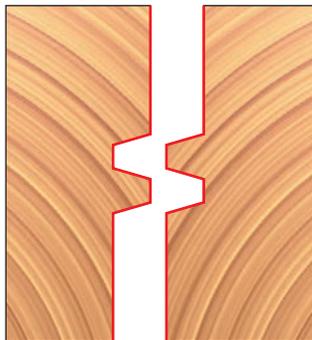
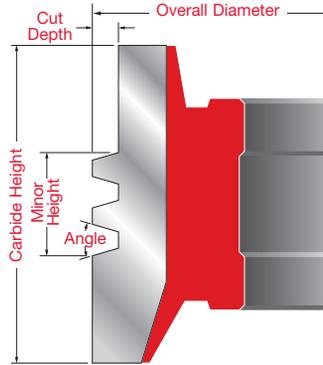


## FIXED WING CUTTER

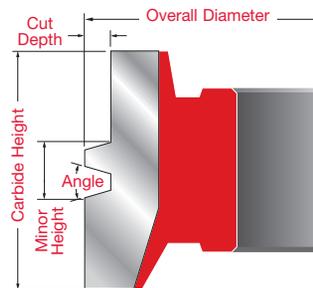
ITEM NUMBER	OVERALL DIA.	CUT DEPTH	CARBIDE HEIGHT	MINOR HEIGHT	ANGLE	BORE DIAMETER
UP035	3-9/16"	13/64"	2-3/8"	49/64"	32°	1-1/4"
UP037	3-9/16"	13/64"	1-23/32"	13/32"	32°	1-1/4"



UP035



UP037



### USE IN



Shaper Machine

### APPLICATION

Produce a strong joint by increasing the surface area for the glue

### MATERIALS



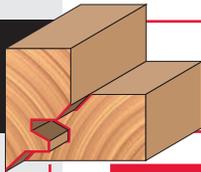
Hardwood

Softwood

MDF

Plywood

# FIXED WING CUTTER



## Tongue & Groove Lock Miter Cutters

### USE IN



Shaper Machine

### APPLICATION

Cutters are designed to make lock miter joints easily. Run one board vertically and the second piece horizontally.

### MATERIALS



Hardwood

Softwood

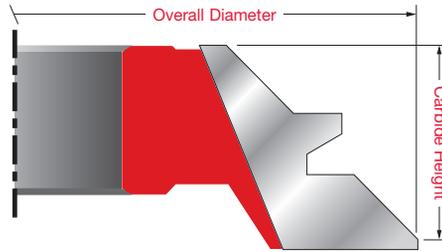


MDF

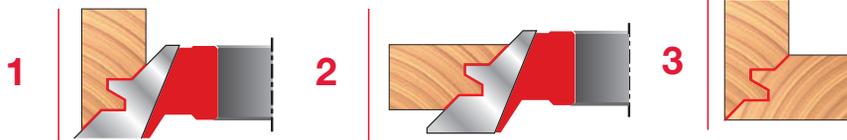


Plywood

ITEM NUMBER	OVERALL DIA.	CARBIDE HEIGHT	BORE DIAMETER
EC034	4-5/32"	1-5/32"	3/4"
UP034	4-3/4"	1-3/16"	1-1/4"

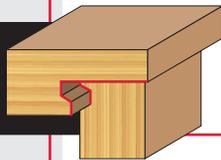


EC034 / UP034



# SHAPER CUTTERS

# FIXED WING CUTTER



## Drawer Lock Cutters

### USE IN



Shaper Machine

### APPLICATION

Designed for 1/2" and 3/4" thick stock, these cutters provide a strong joint for drawer fronts

### MATERIALS



Hardwood

Softwood

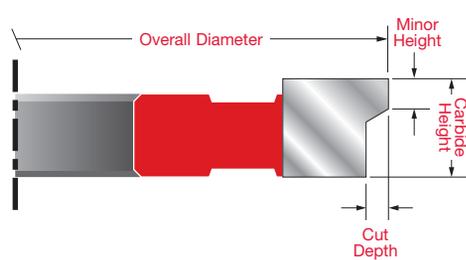


MDF

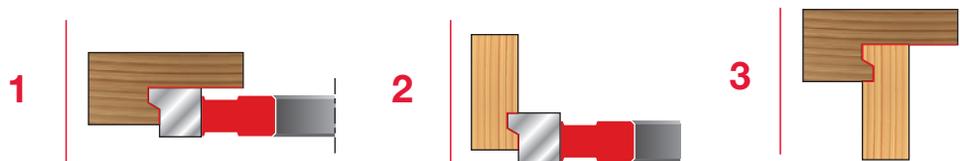


Plywood

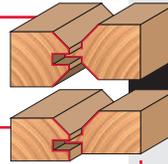
ITEM NUMBER	OVERALL DIA.	CUT DEPTH	CARBIDE HEIGHT	MINOR HEIGHT	BORE DIAMETER
EC240	2-7/8"	1/8"	33/64"	5/32"	3/4"
UP240	3-15/16"	1/8"	33/64"	5/32"	1-1/4"



EC240 / UP240



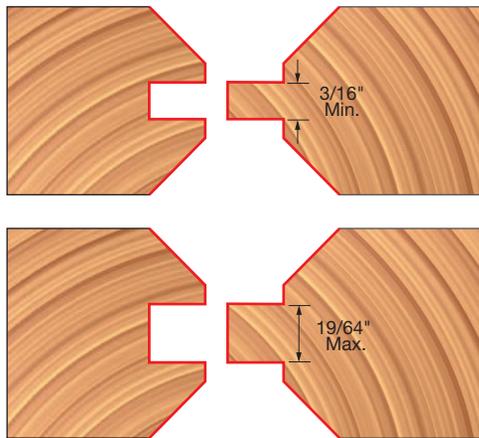
# V-Paneling Cutter Sets



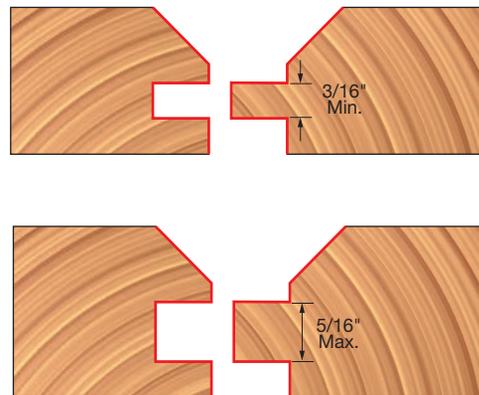
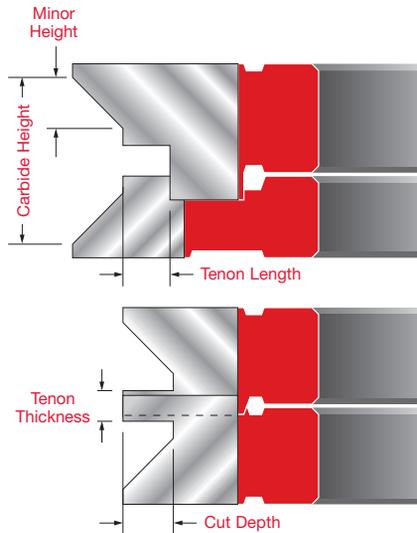
## FIXED WING CUTTER

ITEM NUMBER	OVERALL DIA.	CUT DEPTH	CARBIDE HEIGHT	MINOR HEIGHT	TENON THICKNESS	TENON LENGTH	BORE DIA.
UP190	4-1/8"	19/64"	31/32"-1-5/64"	19/64"	3/16"-19/64"	19/64"	1-1/4"
UP191	4-1/8"	9/32"	1-1/16"-1-3/16"	19/64"	3/16"-5/16"	9/32"	1-1/4"

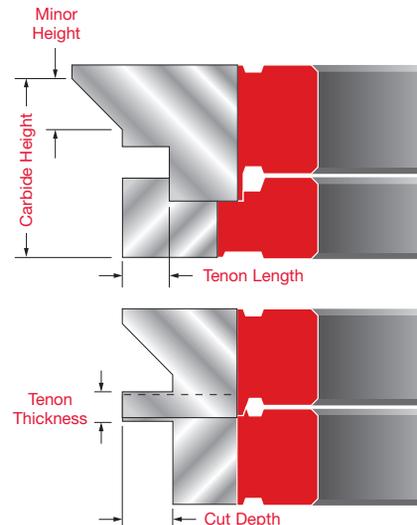
Number of Set: 4



UC190 / UP190



UC191 / UP191



### USE IN



Shaper Machine

### APPLICATION

Produce a strong joint by increasing the surface area for the glue

### MATERIALS



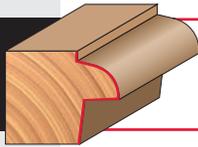
Hardwood

Softwood

MDF

Plywood

# FIXED WING CUTTER



## Door Lip Cutter

### USE IN



Shaper Machine

### APPLICATION

Counter-clockwise rotation with the rabbet down, popular with raised panel doors where the panel extends further than the door frame

### MATERIALS



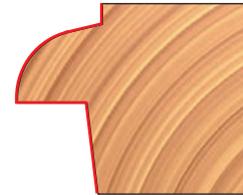
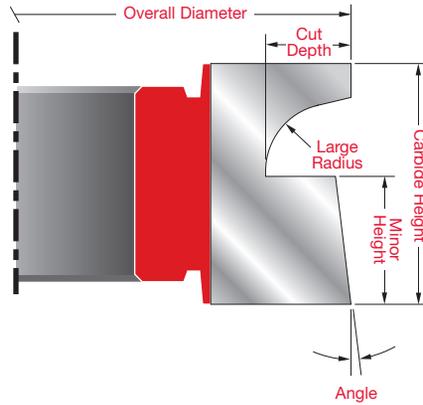
Hardwood

Softwood

MDF

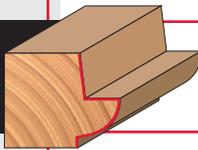
Plywood

ITEM NUMBER	OVERALL DIA.	CUT DEPTH	CARBIDE HEIGHT	MINOR HEIGHT	LARGE RADIUS	ANGLE	BORE DIA.
EC001	2-7/8"	29/64"	1-1/4"	43/64"	23/64"	7°	3/4"
UP001	3-9/16"	29/64"	1-1/4"	43/64"	23/64"	7°	1-1/4"



EC001 / UP001

# FIXED WING CUTTER



## Door Lip Cutter

### USE IN



Shaper Machine

### APPLICATION

Clockwise rotation with the rabbet down, popular with raised panel doors where the panel extends further than the door frame

### MATERIALS



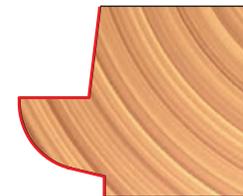
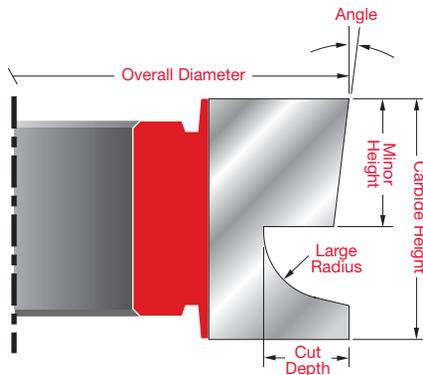
Hardwood

Softwood

MDF

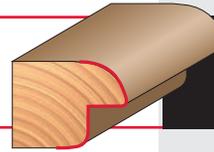
Plywood

ITEM NUMBER	OVERALL DIA.	CUT DEPTH	CARBIDE HEIGHT	MINOR HEIGHT	LARGE RADIUS	ANGLE	BORE DIA.
UP002	3-9/16"	29/64"	1-1/4"	43/64"	23/64"	7°	1-1/4"



UP002

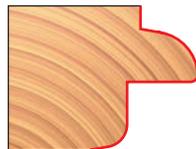
# Door Lip Cutters



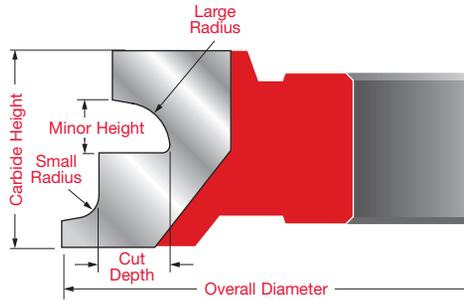
## FIXED WING CUTTER

CONTINUED

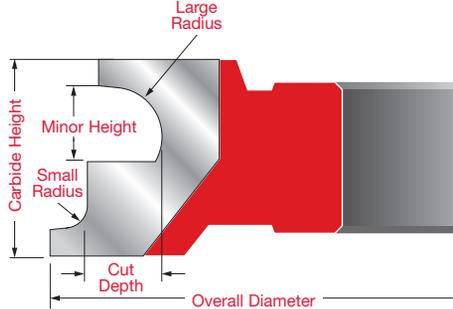
ITEM NUMBER	OVERALL DIA.	CUT DEPTH	CARBIDE HEIGHT	MINOR HEIGHT	LARGE RADIUS	SMALL RADIUS	BORE DIA.
UP293	4-21/64"	3/8"	1-1/32"	9/32"	15/64"	1/8"	1-1/4"
UP294	4-21/64"	25/64"	1-1/32"	25/64"	1/4"	1/8"	1-1/4"
UP295	4-21/64"	13/32"	1-1/32"	25/64"	1/8"	1/8"	1-1/4"
UP296	4-21/64"	13/32"	1-1/32"	25/64"	1/8"	5/64"	1-1/4"
UP297	4-21/64"	7/16"	1-1/32"	23/64"	19/32"	1/8"	1-1/4"



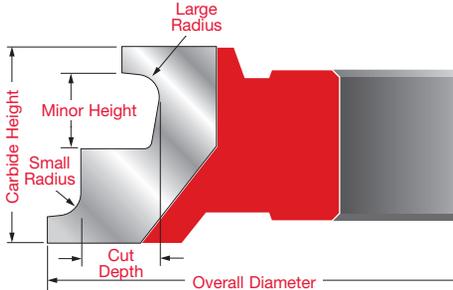
UP293



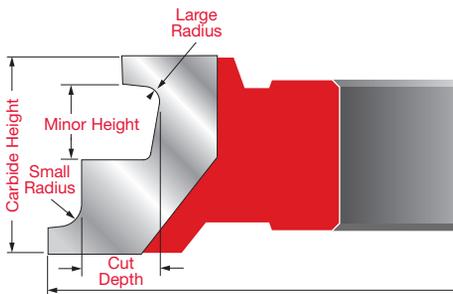
UP294



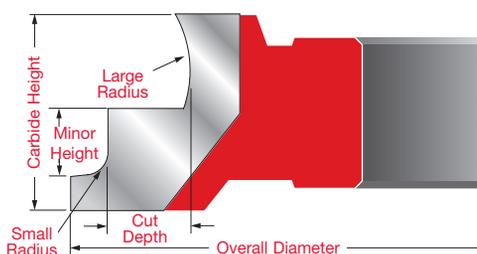
UP295



UP296



UP297



Black Item Numbers Indicate 3/4" Bore

Red Item Numbers Indicate 1-1/4" Bore

All Profile Drawings 1:1 Scale

### USE IN



Shaper Machine

### APPLICATION

Leaves a smooth radius on the back of the rabbet for easier finishing. By varying the height and fence settings these door lip cutters can provide different profiles.

### MATERIALS



Hardwood

Softwood

MDF

Plywood

# FIXED WING CUTTER

## Combination 1/4" & 1/2" Round Over Cutters

### USE IN



Shaper Machine

### APPLICATION

Two cutters in one. 1 part is a 1/4" rounding over cutter and 1 is a 1/2" rounding over cutter. These cutters can also be used as a molding profile cutter and a beading cutter.

### MATERIALS



Hardwood

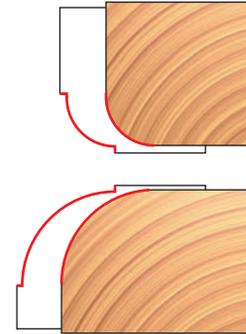
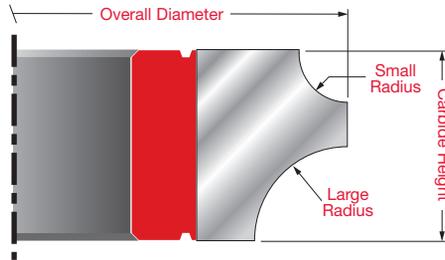
Softwood



MDF

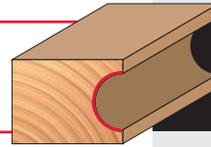
Plywood

ITEM NUMBER	OVERALL DIA.	CARBIDE HEIGHT	LARGE RADIUS	SMALL RADIUS	BORE DIAMETER
EC044	2-7/8"	1"	1/2"	1/4"	3/4"
UP004	3-9/16"	1"	1/2"	1/4"	1-1/4"



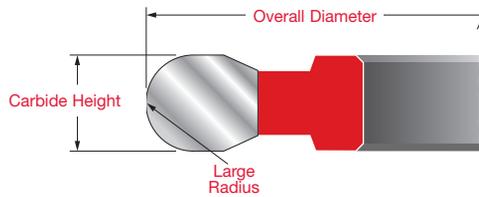
EC044 / UP004

# Convex Radius Cutters



## FIXED WING CUTTER

ITEM NUMBER	OVERALL DIA.	CARBIDE HEIGHT	LARGE RADIUS	BORE DIAMETER
EC101	2-7/8"	1/4"	1/8"	3/4"
EC102	2-7/8"	3/8"	3/16"	3/4"
EC103	2-7/8"	1/2"	1/4"	3/4"
EC104	2-7/8"	5/8"	5/16"	3/4"
EC105	2-7/8"	3/4"	3/8"	3/4"
UP101	3-9/16"	1/4"	1/8"	1-1/4"
UP102	3-9/16"	3/8"	3/16"	1-1/4"
UP103	3-9/16"	1/2"	1/4"	1-1/4"
UP104	3-9/16"	5/8"	5/16"	1-1/4"
UP105	3-9/16"	3/4"	3/8"	1-1/4"
UP106	3-9/16"	7/8"	7/16"	1-1/4"
UP107	3-9/16"	1"	1/2"	1-1/4"
UP109	3-5/8"	1-1/2"	3/4"	1-1/4"
UP110	4"	2"	1"	1-1/4"



### USE IN

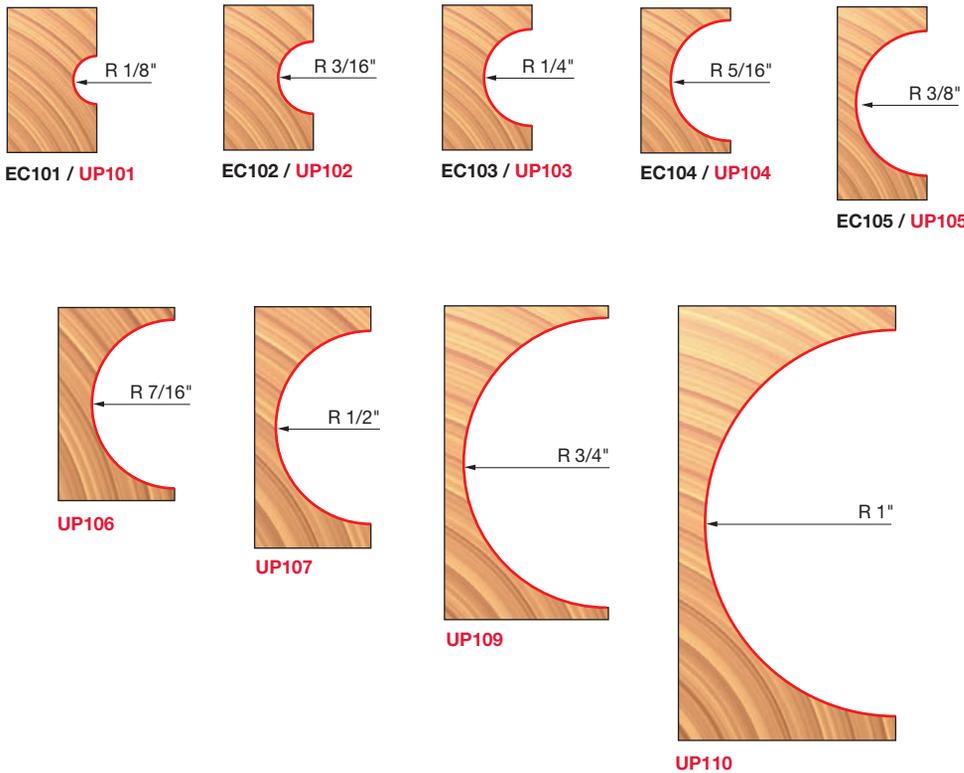


Shaper Machine

### APPLICATION

Computer balanced three-wing cutters can be used for cutting flutes and coves. Available in the most popular sizes for both 3/4" and 1-1/4" bores.

### MATERIALS

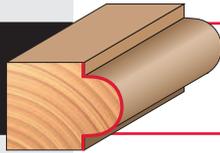


Black Item Numbers Indicate 3/4" Bore

Red Item Numbers Indicate 1-1/4" Bore

All Profile Drawings 1:1 Scale

# FIXED WING CUTTER



## Concave Radius Cutters

### USE IN



Shaper Machine

### APPLICATION

Cutting beads and rounding the end of boards. Available in the most popular sizes for both 3/4" and 1-1/4" bores.

### MATERIALS



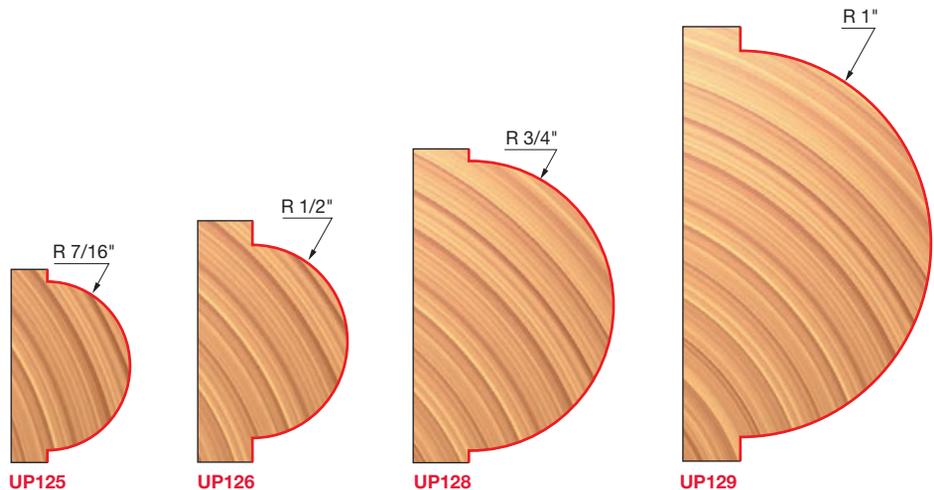
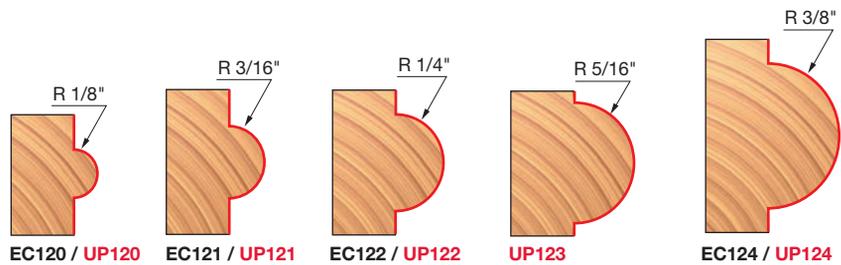
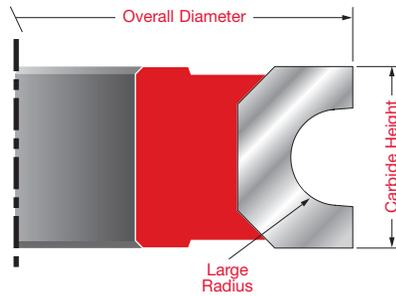
Hardwood

Softwood

MDF

Plywood

ITEM NUMBER	OVERALL DIA.	CARBIDE HEIGHT	LARGE RADIUS	BORE DIAMETER
EC120	2-7/8"	5/8"	1/8"	3/4"
EC121	2-7/8"	25/32"	3/16"	3/4"
EC122	2-7/8"	15/16"	1/4"	3/4"
EC124	2-7/8"	1-1/4"	3/8"	3/4"
UP120	3-9/16"	21/32"	1/8"	1-1/4"
UP121	3-9/16"	13/16"	3/16"	1-1/4"
UP122	3-9/16"	31/32"	1/4"	1-1/4"
UP123	3-9/16"	1-1/8"	5/16"	1-1/4"
UP124	3-9/16"	1-9/32"	3/8"	1-1/4"
UP125	3-5/8"	1-13/32"	7/16"	1-1/4"
UP126	4"	1-39/64"	1/2"	1-1/4"
UP128	4-11/16"	2-7/64"	3/4"	1-1/4"
UP129	5-1/8"	2-39/64"	1"	1-1/4"



Black Item Numbers Indicate 3/4" Bore

Red Item Numbers Indicate 1-1/4" Bore

All Profile Drawings 1:1 Scale

# Combination Convex & Concave Cutters

## FIXED WING CUTTER

ITEM NUMBER	OVERALL DIA.	CARBIDE HEIGHT	LARGE RADIUS	BORE DIAMETER
UP132	3-9/16"	3/4"	1/4"	1-1/4"
UP133	3-9/16"	63/64"	5/16"	1-1/4"
UP134	3-9/16"	1-1/64"	3/8"	1-1/4"
UP136	4-1/4"	1-23/64"	1/2"	1-1/4"
UP137	4-11/16"	1-35/64"	5/8"	1-1/4"
UP138	4-11/16"	1-53/64"	3/4"	1-1/4"
UP139	5-1/8"	2-1/4"	1"	1-1/4"

### USE IN

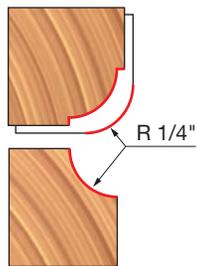
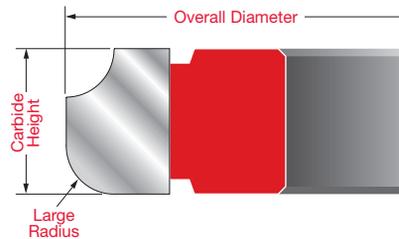


Shaper Machine

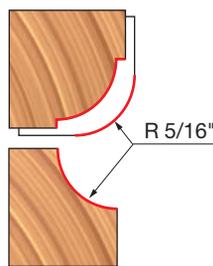
### APPLICATION

These cutters offer maximum versatility, by producing half round beads, quarter round beads, coves, and rounding over cuts. These bits are great for making drop leaf tables by creating mating profiles with the use of one cutter.

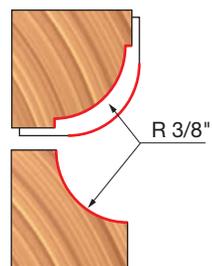
### MATERIALS



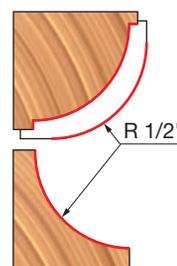
UP132



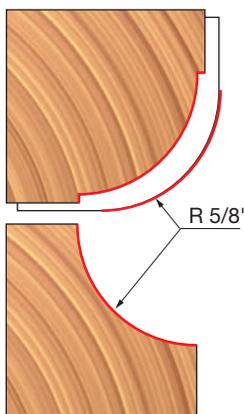
UP133



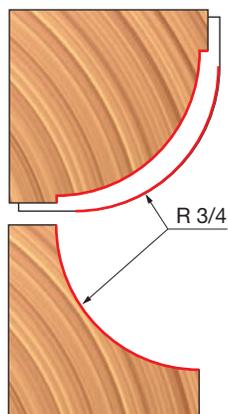
UP134



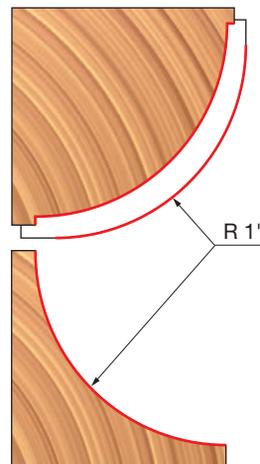
UP135



UP137

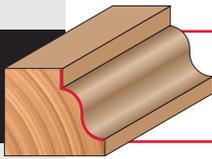


UP138



UP139

# FIXED WING CUTTER



## Roman Ogee Cutters

### USE IN



Shaper Machine

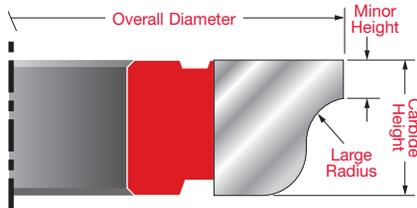
### APPLICATION

Creates pattern of edge treatments. The pattern can also be changed by raising or lowering the spindle.

### MATERIALS



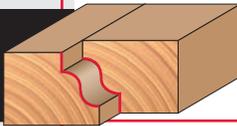
ITEM NUMBER	OVERALL DIA.	CARBIDE HEIGHT	MINOR HEIGHT	LARGE RADIUS	BORE DIAMETER
EC005	2-7/8"	25/32"	9/32"	15/64"	3/4"
UP005	3-5/8"	45/64"	13/64"	15/64"	1-1/4"



EC005 / UP005

SHAPER CUTTERS

# FIXED WING CUTTER



## Matched Reverse Detail Cutters

### USE IN



Shaper Machine

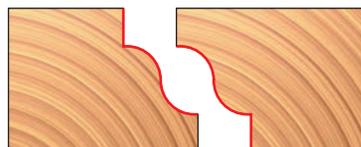
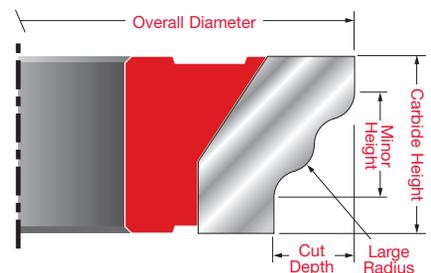
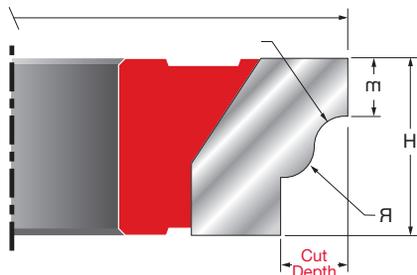
### APPLICATION

These cutters have perfectly matched profiles which enable both the molding cut and a matching coping cut with the same cutter

### MATERIALS

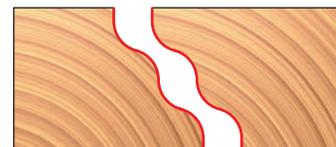


ITEM NUMBER	OVERALL DIA.	CUT DEPTH	CARBIDE HEIGHT	MINOR HEIGHT	LARGE RADIUS	SHANK DIA.	BORE DIA.
UP280	3-15/16"	25/64"	1-3/32"	23/64"	11/64"	-	1-1/4"
UP281	3-15/16"	15/32"	1-3/32"	5/16"	5/32"	-	1-1/4"
UP282	3-15/16"	5/8"	1-3/32"	1/2"	15/64"	-	1-1/4"
UP283	3-15/16"	33/64"	63/64"	33/64"	13/64"	-	1-1/4"
UP284	3-15/16"	43/64"	63/64"	33/64"	23/64"	-	1-1/4"
UP285	3-15/16"	63/64"	23/64"	19/32"	15/64"	-	1/1/4"
UP286	3-15/16"	3/4"	63/64"	23/64"	23/64"	-	1-1/4"
UP287	3-15/16"	19/32"	63/64"	3/4"	5/16"	-	1-1/4"
UP288	4-1/8"	5/8"	63/64"	17/64"	-	23°	1-1/4"



UP280

Black Item Numbers Indicate 3/4" Bore

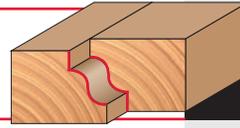


UP281

Red Item Numbers Indicate 1-1/4" Bore

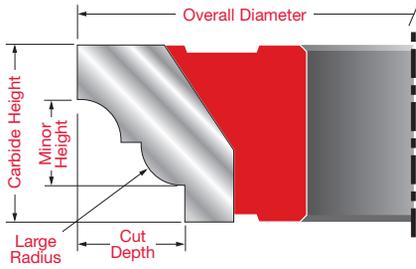
All Profile Drawings 1:1 Scale

# Matched Reverse Detail Cutters

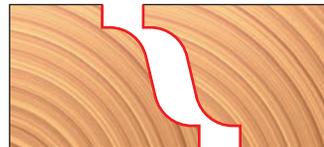
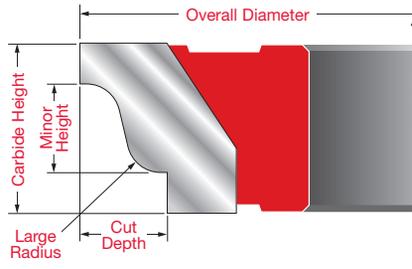


## FIXED WING CUTTER

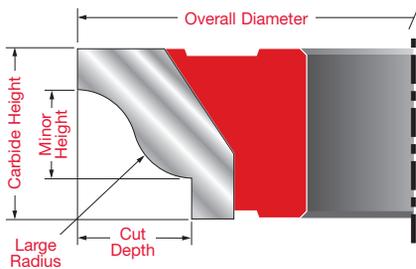
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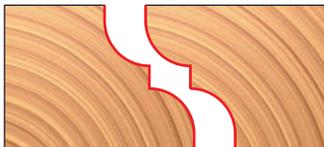
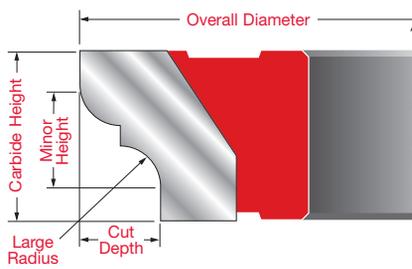
UP282



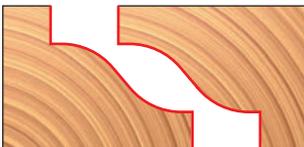
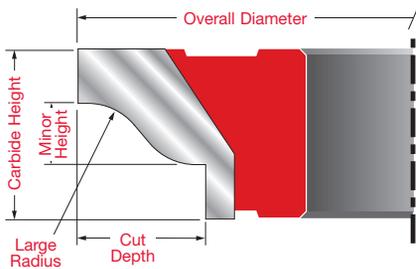
UP283



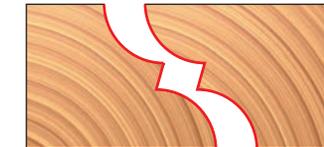
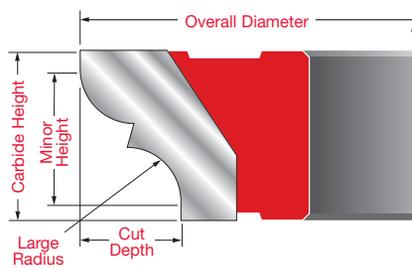
UP284



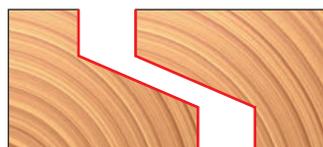
UP285



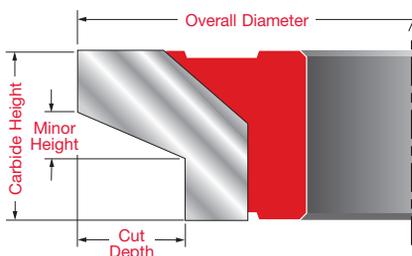
UP286



UP287



UP288



### USE IN



Shaper Machine

### APPLICATION

These cutters have perfectly matched profiles which enable both the molding cut and a matching coping cut with the same cutter

### MATERIALS



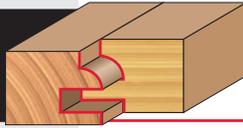
Hardwood

Softwood

MDF

Plywood

# FIXED WING CUTTER



## 3/4" Stock Male & Female Cabinet Door Cutter Sets

### USE IN



Shaper Machine

### APPLICATION

Perfect for the high production needs of a cabinet or door shop. Shims are included to ensure perfectly fitted joints through many sharpenings.

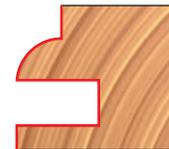
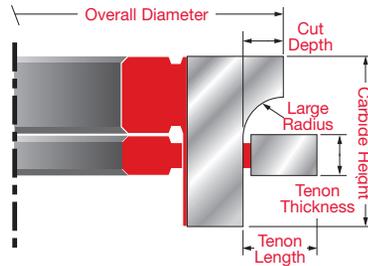
### MATERIALS



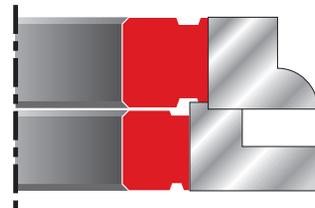
ITEM NO.	OVERALL DIA.	CUT DEPTH	CARBIDE HEIGHT	TENON THICKNESS	TENON LENGTH	LARGE RADIUS	SMALL RADIUS	BORE DIA.	RUB COLLAR NO.
<b>Round Over Profile</b>									
EC260	2-7/16"	15/64"	1"	15/64"	7/16"	15/64"	—	3/4"	RC-001
UP260	3-9/16"	15/64"	1"	15/64"	7/16"	15/64"	—	1-1/4"	RC30#
<b>Roman Ogee Profile</b>									
EC261	2-11/16"	11/32"	1"	15/64"	7/16"	9/32"	11/64"	3/4"	RC-001
UP261	3-9/16"	11/32"	29/32"	15/64"	7/16"	9/32"	11/64"	1-1/4"	RC30#
<b>Ogee Profile (Double Sided)</b>									
UP262	3-9/16"	15/64"	1-1/16"	15/64"	7/16"	1/8"	—	1-1/4"	RC30#
<b>Bead Profile</b>									
EC263	2-11/16"	11/32"	1"	15/64"	7/16"	9/32"	—	3/4"	
UP263	3-9/16"	11/32"	1"	15/64"	7/16"	9/32"	—	1-1/4"	RC30#
<b>Ogee Profile</b>									
UP264	3-9/16"	11/32"	1"	15/64"	7/16"	9/64"	—	1-1/4"	RC30#

Number of Pieces: 4

### Round Over Profile

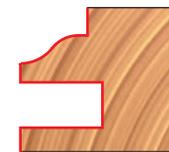
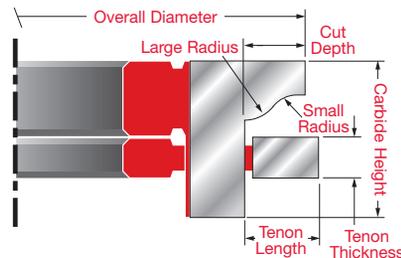


EC260 / UP260

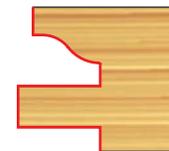
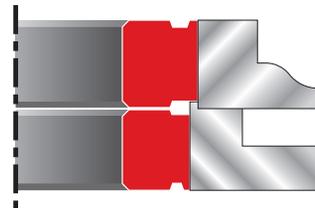


EC260 / UP260

### Roman Ogee Bits



EC261 / UP261



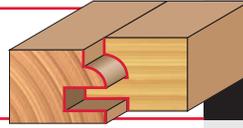
EC261 / UP261

"#" Determines Bore Size  
See Bushing & Rub Collars  
for Bore Selection

Black Item Numbers Indicate 3/4" Bore  
Red Item Numbers Indicate 1-1/4" Bore

All Profile Drawings 1:1 Scale

# 3/4" Stock Male & Female Cabinet Door Cutter Sets



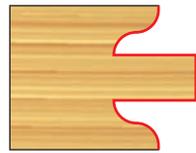
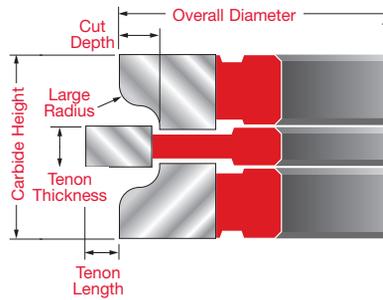
## FIXED WING CUTTER

CONTINUED

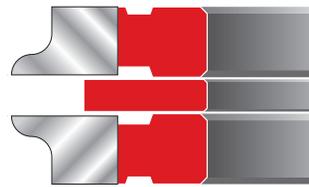
### Ogee Profile (Double Sided)



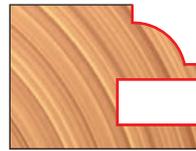
UP262



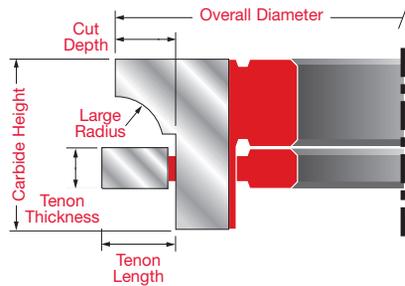
UP262



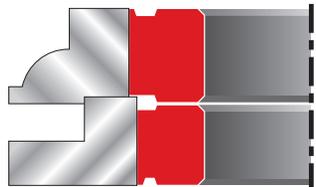
### Bead Profile



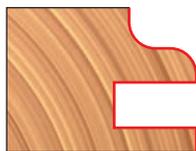
EC263 / UP263



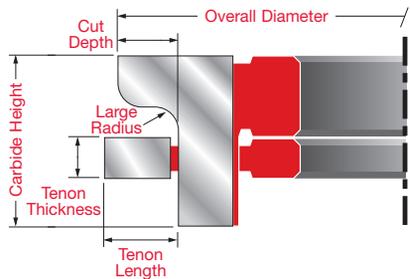
EC263 / UP263



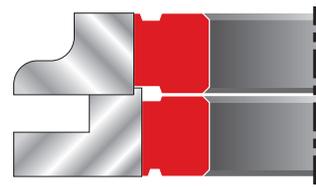
### Ogee Profile



UP264



UP264



### USE IN



Shaper Machine

### APPLICATION

Perfect for the high production needs of a cabinet or door shop. Shims are included to ensure perfectly fitted joints through many sharpenings.

### MATERIALS



Hardwood



Softwood



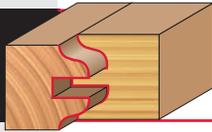
MDF



Plywood

SHAPER CUTTERS

# FIXED WING CUTTER



## 1" Stock Male & Female Door Cutter Sets

### USE IN



Shaper Machine

### APPLICATION

Creates a molding cut on both sides of the rail and stile. Ideal for lightweight doors or divider screens. Shims are included to ensure perfectly fitted joints through many sharpenings. Each cutter is balanced, and has thick carbide tips for maximum sharpening life.

### MATERIALS



Hardwood

Softwood

MDF

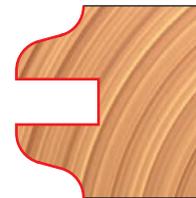
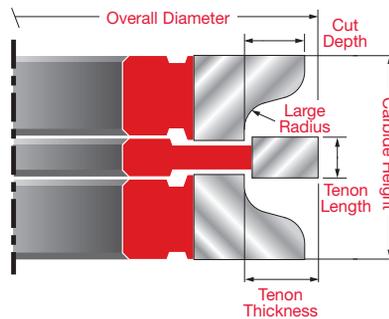
Plywood

SHAPER CUTTERS

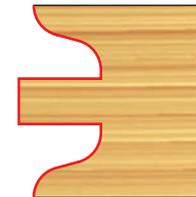
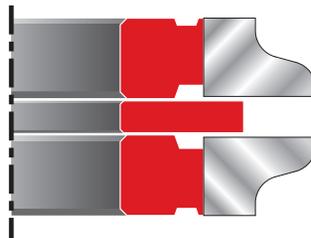
ITEM NO.	OVERALL DIA.	CUT DEPTH	CARBIDE HEIGHT	TENON THICKNESS	TENON LENGTH	LARGE RADIUS	BORE DIA.	RUB COLLAR NO.
<b>Ogee Profile (Double Sided)</b>								
UP268	3-9/16"	23/64"	1-3/16"	15/64"	7/16"	5/32"	1-1/4"	RC30#
<b>Round Over Profile (Double Sided)</b>								
UP266	3-9/16"	15/64"	1-3/16"	15/64"	7/16"	15/64"	1-1/4"	RC30#
UP267	3-9/16"	11/32"	1-11/32"	15/64"	7/16"	9/32"	1-1/4"	RC30#

Number of Pieces: 6

### Ogee Over Profile

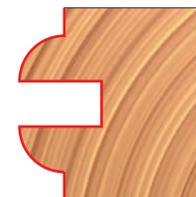
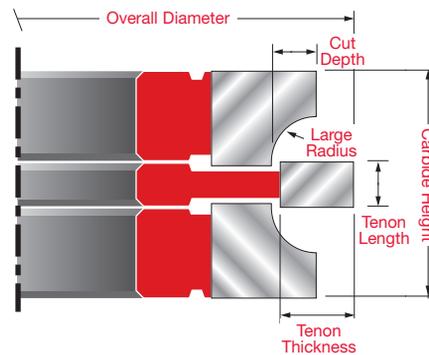


UP268

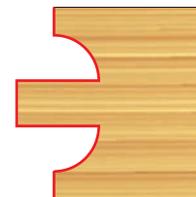
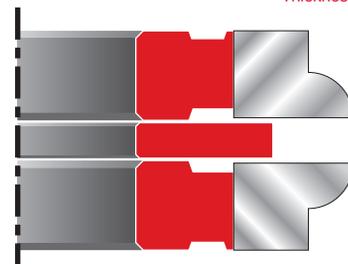


UP268

### Round Over Profile

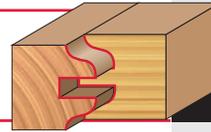


UP266



UP266

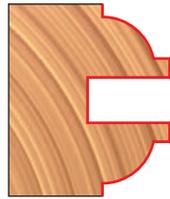
# 1" Stock Male & Female Door Cutter Sets



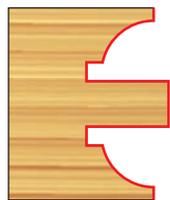
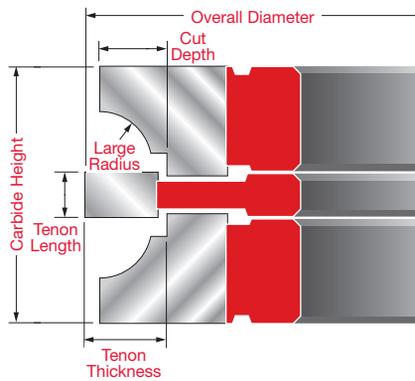
## FIXED WING CUTTER

CONTINUED

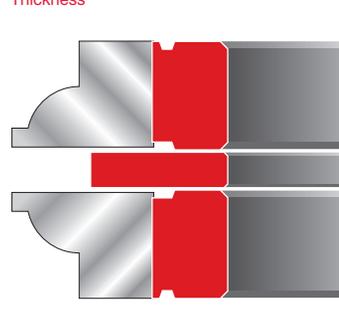
### Round Over Profile



UP267



UP267



### USE IN



Shaper Machine

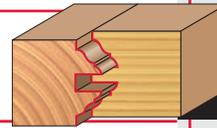
### APPLICATION

Creates a molding cut on both sides of the rail and stile. Ideal for lightweight doors or divider screens. Shims are included to ensure perfectly fitted joints through many sharpenings.

### MATERIALS



# 1-3/8" Stock Male & Female Interior Door Cutter Sets



## FIXED WING CUTTER

SHAPER CUTTERS

ITEM NO.	OVERALL DIA.	CUT DEPTH	CARBIDE HEIGHT	MINOR HEIGHT	TENON THICKNESS	TENON LENGTH	LARGE RADIUS	BORE DIA.	RUB COLLAR NO.
<b>Classical Profile (Double Sided)</b>									
EC090	2-7/8"	-	23/64"	1-37/64"	15/64"	-	9/64"	3/4"	-
UP090	3-9/16"	-	23/64"	1-27/64"	15/64"	-	1/8"	1-1/4"	-
<b>Classical Cove &amp; Bead Profile (Double Sided)</b>									
UP269	3-9/16"	1-37/64"	7/8"	-	15/64"	33/64"	13/64"	1-1/4"	RC20#
<b>Round Over Profile (Double Sided)</b>									
EC270	2-27/32"	-	1-37/64"	-	15/64"	33/64"	5/16"	3/4"	RC-001
UP270	3-9/16"	-	1-37/64"	-	15/64"	33/64"	5/16"	1-1/4"	RC20#
<b>Ogee Profile (Double Sided)</b>									
UP272	3-9/16"	-	1-1/2"	-	15/64"	17/32"	3/16"	1-1/4"	RC20#

Number of Pieces: 6

### USE IN



Shaper Machine

### APPLICATION

Creates rail and stile for standard 1-3/8" thick interior doors. Cuts both molding and coping cuts.

### MATERIALS

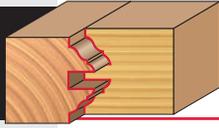


"#" Determines Bore Size  
See Bushing & Rub Collars  
for Bore Selection

Black Item Numbers Indicate 3/4" Bore  
Red Item Numbers Indicate 1-1/4" Bore

All Profile Drawings 1:1 Scale

# FIXED WING CUTTER



## 1-3/8" Stock Male & Female Interior Door Cutter Sets

CONTINUED

### USE IN



Shaper Machine

### APPLICATION

Creates rail and stile for standard 1-3/8" thick interior doors. Cuts both molding and coping cuts.

### MATERIALS



Hardwood



Softwood



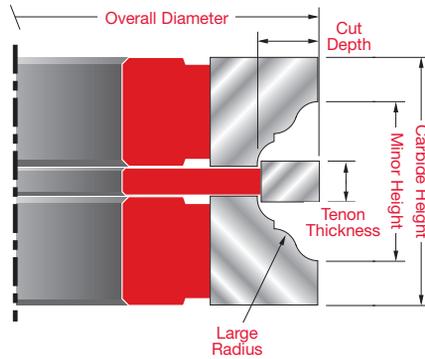
MDF



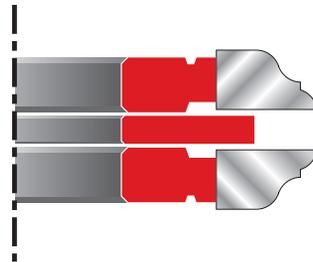
Plywood

SHAPER CUTTERS

### Classical Profile (Double Sided)

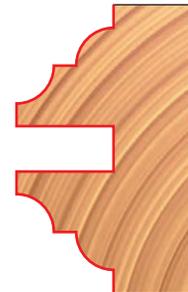
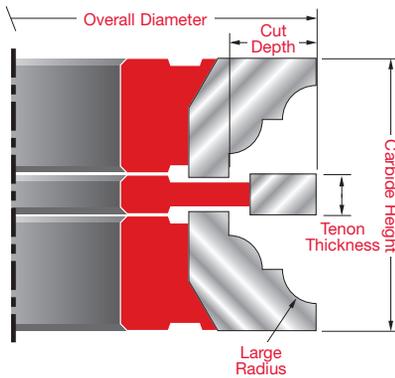


EC090 / UP090

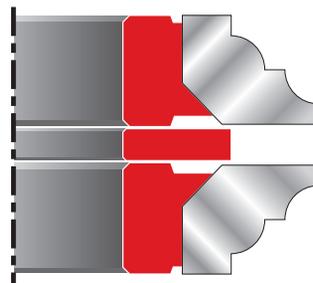


EC090 / UP090

### Classical Cove & Bead Profile (Double Sided)

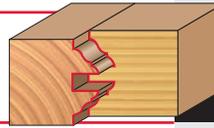


UP269



UP269

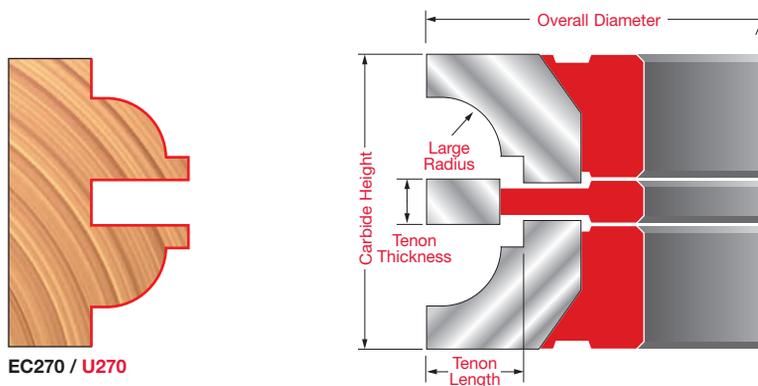
# 1-3/8" Stock Male & Female Interior Door Cutter Sets



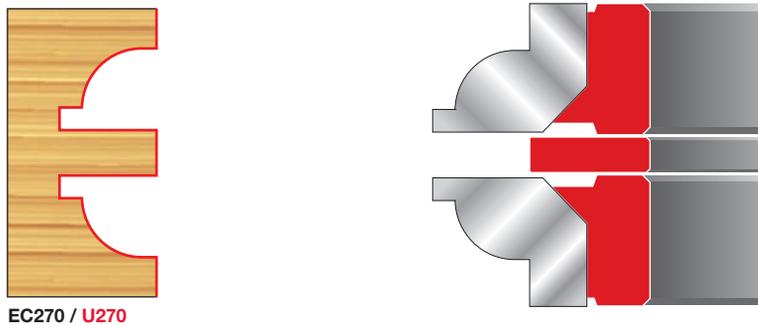
## FIXED WING CUTTER

CONTINUED

### Round Over Profile (Double Sided)

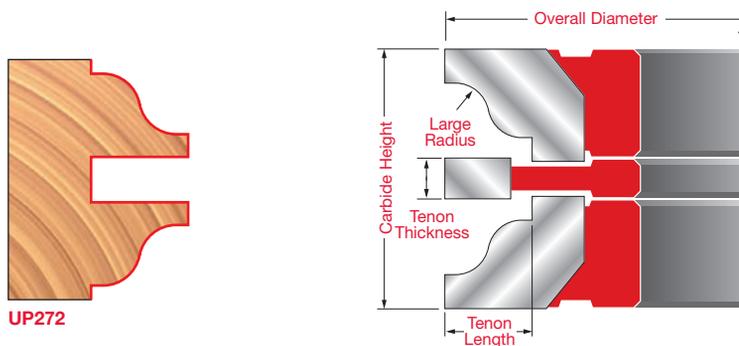


EC270 / U270

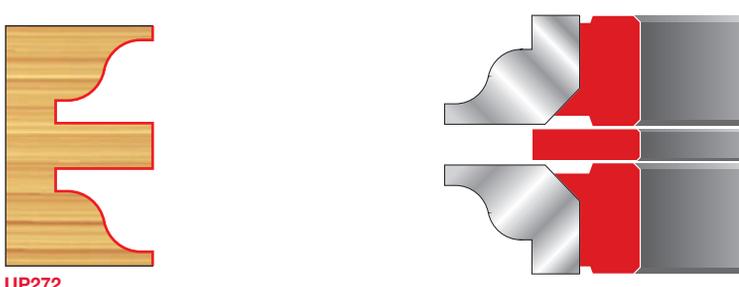


EC270 / U270

### Ogee Profile (Double Sided)



UP272



UP272

### USE IN



Shaper Machine

### APPLICATION

Creates rail and stile for standard 1-3/8" thick interior doors. Cuts both molding and coping cuts.

### MATERIALS



Hardwood

Softwood

MDF

Plywood

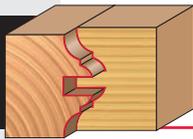
SHAPER CUTTERS

"#" Determines Bore Size  
See Bushing & Rub Collars  
for Bore Selection

Black Item Numbers Indicate 3/4" Bore  
Red Item Numbers Indicate 1-1/4" Bore

All Profile Drawings 1:1 Scale

# FIXED WING CUTTER



## 1-3/4" Stock Male & Female Exterior Door Cutter Sets

### USE IN



Shaper Machine

### APPLICATION

Creates profile on both sides of the rail and stile. Ideal for exterior doors. Shims are included to ensure perfectly fitted joints through many sharpenings. Each cutter is balanced, and has thick carbide tips for maximum sharpening life.

### MATERIALS



Hardwood

Softwood

MDF

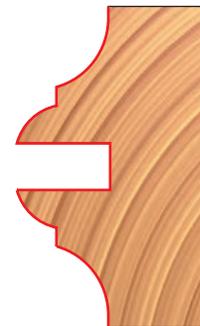
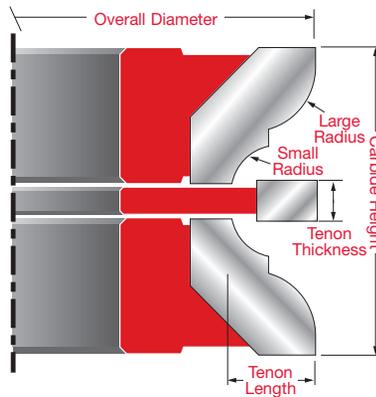
Plywood

SHAPER CUTTERS

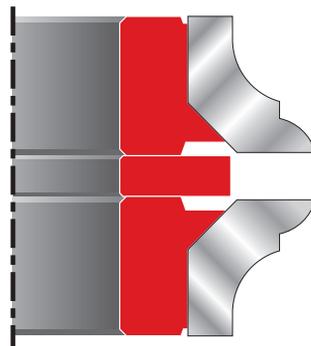
ITEM NO.	OVERALL DIA.	CARBIDE HEIGHT	MINOR HEIGHT	TENON THICKNESS	TENON LENGTH	LARGE RADIUS	SMALL RADIUS	BORE DIA.	RUB COLLAR NO.
<b>Cove &amp; Round Profile (Double Sided)</b>									
EC091	2-7/8"	1-47/64"	-	15/64"	1/2"	21/64"	9/32"	3/4"	-
UP091	3-9/16"	1-47/64"	-	15/64"	1/2"	21/64"	9/32"	1-1/4"	-
<b>Cove &amp; Bead Profile (Double Sided)</b>									
UP273	3-13/16"	1-27/32"	1-29/64"	15/64"	43/64"	21/32"	-	1-1/4"	RC20#
<b>Bead Profile (Double Sided)</b>									
EC274	2-27/32"	1-31/32"	-	15/64"	33/64"	25/64"	-	3/4"	RC-001
UP274	3-9/16"	1-31/32"	-	15/64"	33/64"	25/64"	-	1-1/4"	RC20#
<b>Ogee Profile (Double Sided)</b>									
UP275	3-9/16"	2-3/64"	1-29/64"	15/64"	33/64"	1/4"	-	1-1/4"	RC20#

Number of Pieces: 6

### Cove & Bead Profile (Double Sided)

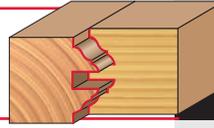


EC091 / UP091



EC091 / UP091

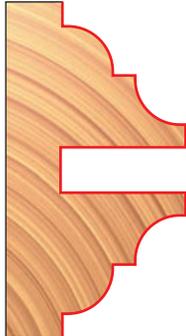
# 1-3/4" Stock Male & Female Exterior Door Cutter Sets



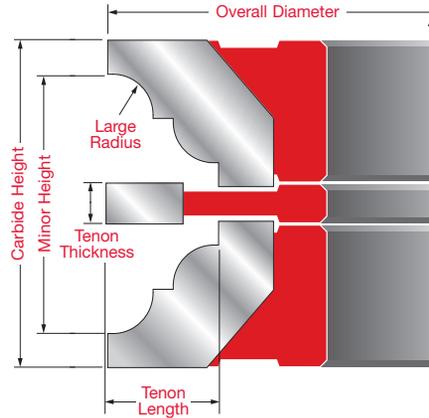
## FIXED WING CUTTER

CONTINUED

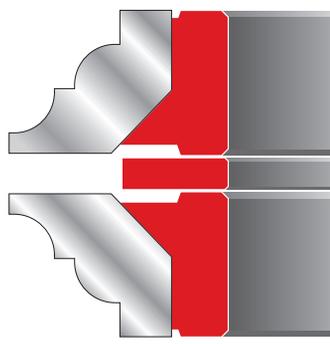
### Cove & Bead Profile (Double Sided)



UP273



UP273



### USE IN



Shaper Machine

### APPLICATION

Creates profile on both sides of the rail and stile. Ideal for exterior doors. Shims are included to ensure perfectly fitted joints through many sharpenings. Each cutter is balanced, and has thick carbide tips for maximum sharpening life.

### MATERIALS



Hardwood



Softwood



MDF



Plywood

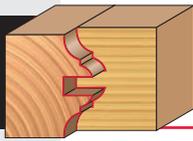
SHAPER CUTTERS

"#" Determines Bore Size  
See Bushing & Rub Collars  
for Bore Selection

Black Item Numbers Indicate 3/4" Bore  
Red Item Numbers Indicate 1-1/4" Bore

All Profile Drawings 1:1 Scale

# FIXED WING CUTTER



## 1-3/4" Stock Male & Female Exterior Door Cutter Sets

CONTINUED

### USE IN



Shaper Machine

### APPLICATION

Creates profile on both sides of the rail and stile. Ideal for exterior doors. Shims are included to ensure perfectly fitted joints through many sharpenings. Each cutter is balanced, and has thick carbide tips for maximum sharpening life.

### MATERIALS



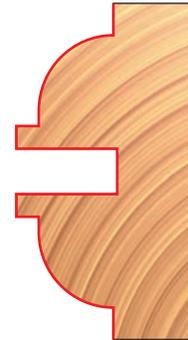
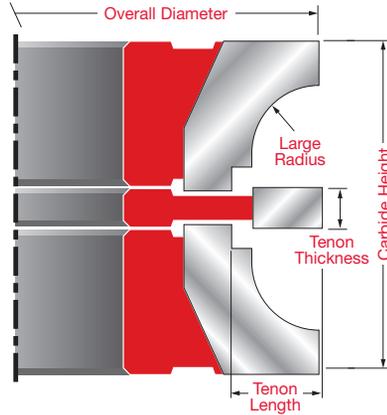
Hardwood

Softwood

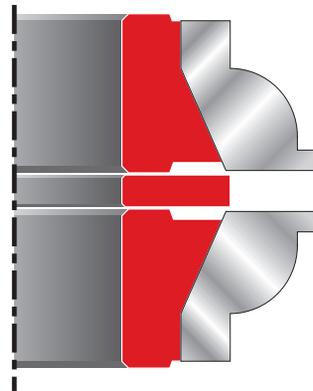
MDF

Plywood

### Bead Profile (Double Sided)



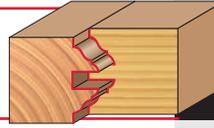
EC274 / UP274



EC274 / UP274

SHAPER CUTTERS

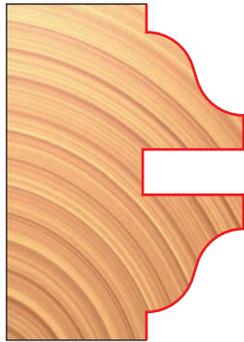
# 1-3/4" Stock Male & Female Exterior Door Cutter Sets



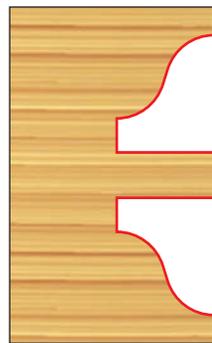
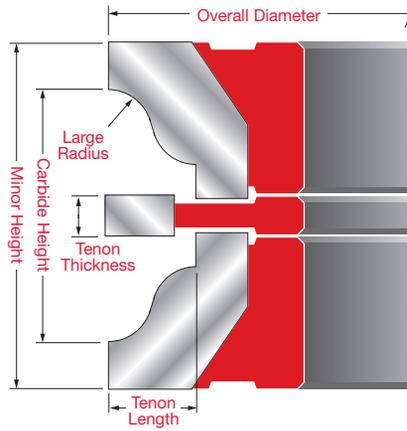
## FIXED WING CUTTER

CONTINUED

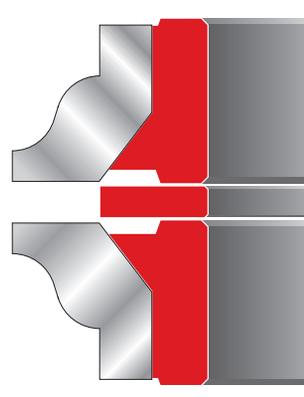
### Ogee Profile (Double Sided)



UP275



UP275



### USE IN



Shaper Machine

### APPLICATION

Creates profile on both sides of the rail and stile. Ideal for exterior doors. Shims are included to ensure perfectly fitted joints through many sharpenings. Each cutter is balanced, and has thick carbide tips for maximum sharpening life.

### MATERIALS



Hardwood

Softwood

MDF

Plywood

SHAPER CUTTERS

"#" Determines Bore Size  
See Bushing & Rub Collars  
for Bore Selection

Black Item Numbers Indicate 3/4" Bore  
Red Item Numbers Indicate 1-1/4" Bore

All Profile Drawings 1:1 Scale

**FREUD INNOVATION**

# ADVANCED 2+2 CUTTER DESIGN

*Freud's exclusive 2+2 cutters produce raised panels that are glass smooth, even on cross grain with no splintering at the top of the profile edge.*



### Freud TiCo™ Hi-Density Carbide

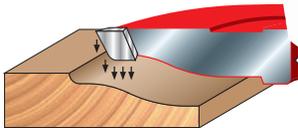
Micro-grain carbide allows for superior finish with a dramatically longer cutting life

### Red Hard Anodized Coating

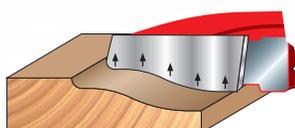
Protective coating protects the aluminum body from abrasion, extending the life of the shaper cutter

### Advanced 2+2 Cutter Design

Revolutionary 4-cutter design includes two large cutters that shear upward and two smaller cutters that shear downward to produce splinter free flawless finishes with no rework



The small wing pushes down on the wood fibers to shear them off for a perfect splinter free edge



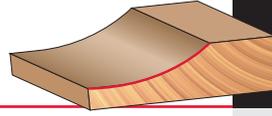
The large wing shears up for a perfect finish on the raised panel profile

### Interchangeable Knife Design

Knives are easily interchanged during sharpening for reduced tooling costs and minimal downtime



# 2+2 Advanced Cutter Design For 5/8" Stock



# CARBIDE INSERT CUTTER

ITEM NO.	OVERALL DIA.	CARBIDE HEIGHT	MINOR HEIGHT	LARGE RADIUS	SMALL RADIUS	ANGLE	BORE DIA.	RUB COLLAR NO.	REPLACEMENT KNIFE KIT
UP016-IC	5-1/2"	7/8"	-	1-29/32"	-	-	1-1/4"	-	ICK-U016*
UC200-IC	4-15/16"	5/8"	15/64"	1-29/32"	-	-	3/4"	RC-002	ICK-U200*
UP200-IC	5-1/2"	5/8"	15/64"	1-29/32"	-	-	1-1/4"	RC10#	ICK-U200*
UC201-IC	4-15/16"	5/8"	23/64"	-	-	12°	3/4"	RC-002	ICK-U201*
UP201-IC	5-1/2"	5/8"	23/64"	-	-	12°	1-1/4"	RC10#	ICK-U201*
UC202-IC	4-15/16"	33/64"	-	1/8"	-	12°	3/4"	RC-002	ICK-U202*
UP202-IC	5-1/2"	5/8"	3/8"	1/8"	-	-	1-1/4"	RC10#	ICK-U202*
UC203-IC	4-15/16"	5/8"	3/8"	1-9/16"	1/8"	-	3/4"	RC-002	ICK-U203*
UP203-IC	5-1/2"	5/8"	3/8"	1-9/16"	1/8"	-	1-1/4"	RC10#	ICK-U203*
UC204-IC	4-15/16"	5/8"	5/32"	9/16"	-	7°	3/4"	RC-002	ICK-U204*
UP204-IC	5-1/2"	5/8"	5/32"	9/16"	-	7°	1-1/4"	RC10#	ICK-U204*
UP205-IC	5-1/2"	5/8"	9/64"	1/8"	-	-	1-1/4"	RC10#	ICK-U205*
UP206-IC	5-1/2"	7/8"	-	9/64"	-	-	1-1/4"	-	ICK-U206*
UC207-IC	4-15/16"	5/8"	3/8"	5/32"	-	4°	3/4"	RC-002	ICK-U207*
UP207-IC	5-1/2"	5/8"	3/8"	5/32"	-	4°	1-1/4"	RC10#	ICK-U207*
UC208-IC	4-15/16"	5/8"	13/32"	1-5/16"	1-15/16"	28°	3/4"	RC-002	ICK-U208*
UP208-IC	5-1/2"	5/8"	13/32"	1-5/16"	1-15/16"	28°	1-1/4"	RC10#	ICK-U208*

## USE IN



Shaper Machine

## APPLICATION

Designed for 5/8" thick panels

All 1-1/4" bore cutters can be used with back-cutters UP230-IC and UP231-IC when using 3/4" stock

All 3/4" bore cutters can be used with back-cutters UC230-IC and UC231-IC when using with 3/4" stock

## MATERIALS



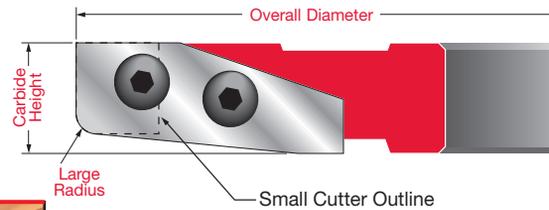
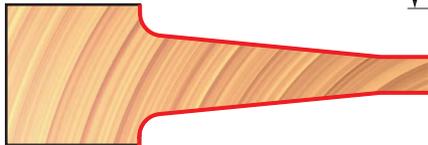
Hardwood

Softwood

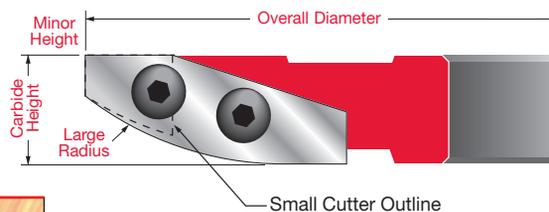
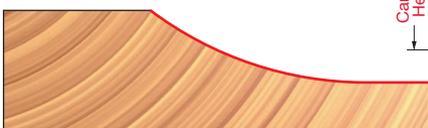
MDF

Plywood

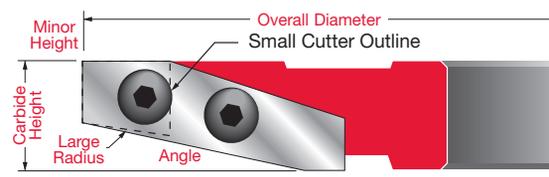
UP016-IC



UC200-IC / UP200-IC



UC201-IC / UP201-IC



"#" Determines Bore Size  
See Bushing & Rub Collars  
for Bore Selection

Black Item Numbers Indicate 3/4" Bore  
Red Item Numbers Indicate 1-1/4" Bore

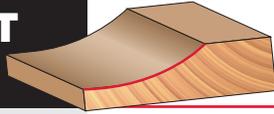
All Profile Drawings 1:1 Scale

Replacement Parts Kit  
U\_IC\_SPARE-  
includes screws,  
washers, wrench



Replacement Knife Kit  
includes all knives needed

# CARBIDE INSERT CUTTER



## 2+2 Advanced Cutter Design For 5/8" Stock

CONTINUED

### USE IN



Shaper Machine

### APPLICATION

Designed for 5/8" thick panels

All 1-1/4" bore cutters can be used with back-cutters UP230-IC and UP231-IC when using 3/4" stock

All 3/4" bore cutters can be used with back-cutters UC230-IC and UC231-IC when using with 3/4" stock

### MATERIALS



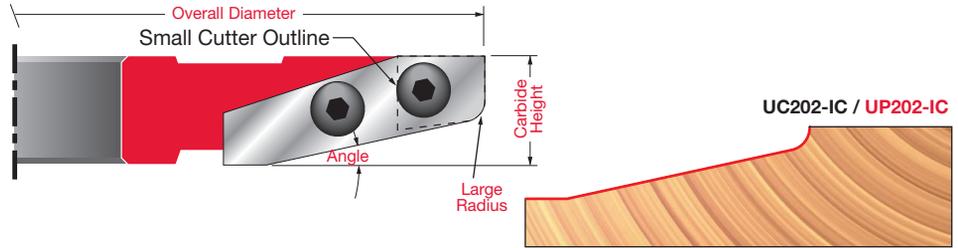
Hardwood

Softwood

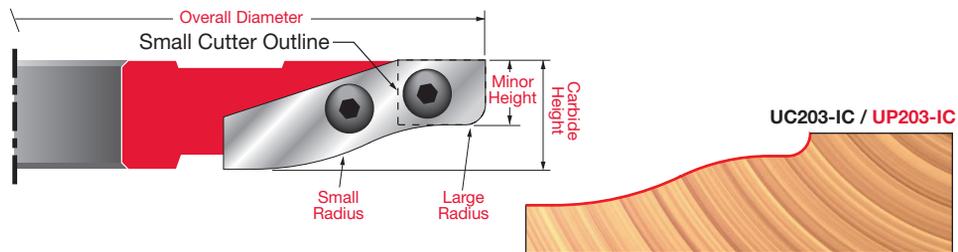
MDF

Plywood

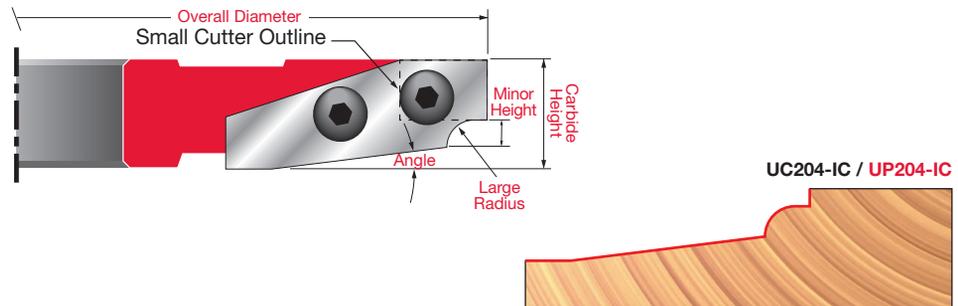
SHAPER CUTTERS



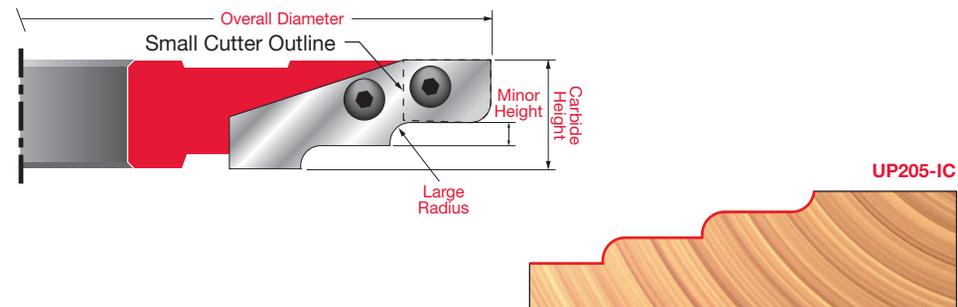
UC202-IC / UP202-IC



UC203-IC / UP203-IC

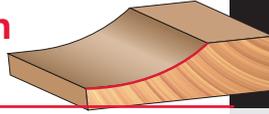


UC204-IC / UP204-IC



UP205-IC

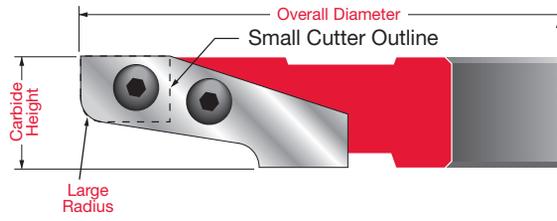
# 2+2 Advanced Cutter Design For 5/8" Stock



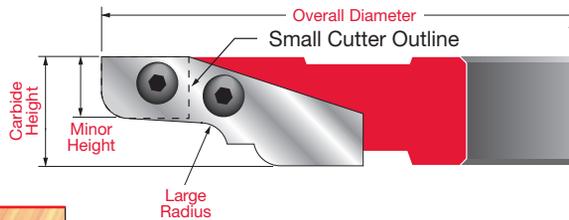
# CARBIDE INSERT CUTTER

CONTINUED

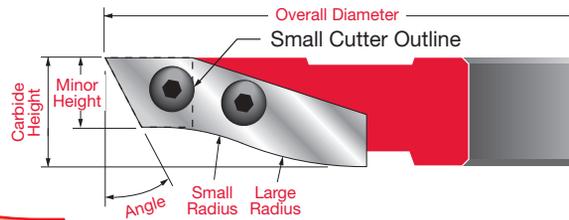
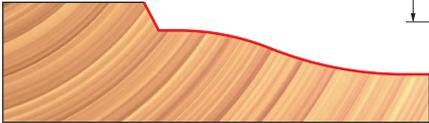
UP206-IC



UC207-IC / UP207-IC



UC208-IC / UP208-IC



## USE IN



Shaper Machine

## APPLICATION

Designed for 5/8" thick panels

All 1-1/4" bore cutters can be used with back-cutters UP230-IC and UP231-IC when using 3/4" stock

All 3/4" bore cutters can be used with back-cutters UC230-IC and UC231-IC when using with 3/4" stock

## MATERIALS



Hardwood

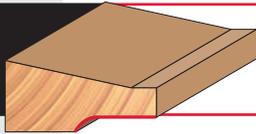
Softwood

MDF

Plywood

SHAPER CUTTERS

# CARBIDE INSERT CUTTER



## Backcutter For 2+2 Advanced Cutter Design

### USE IN



Shaper Machine

### APPLICATION

Designed to be used with Freud's 2+2 advanced cutter when cutting 3/4" stock

Use the 1-1/4" bore cutters with Panel Cutters UP200-IC through UP208-IC

Use 3/4" bore cutters with Panel Cutters UC200-IC through UC208-IC

These cutters leave a decorative profile on the back side of the panel making the panel flush with both the front and back of the rails and stiles

### MATERIALS



Hardwood

Softwood

MDF

Plywood

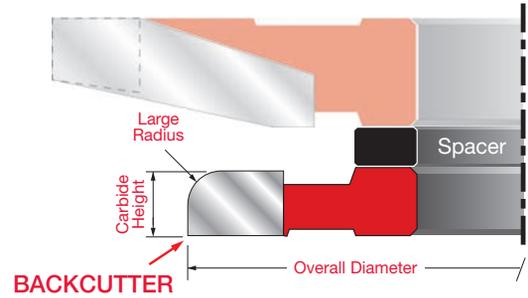
ITEM NUMBER	OVERALL DIA.	CARBIDE HEIGHT	LARGE RADIUS	ANGLE	OVERALL LENGTH	REPLACEMENT KNIVES
UC230-IC	3-11/32"	3/8"	13/64"	-	3/4"	ICK-U230
UP230-IC	3-15/16"	3/8"	13/64"	-	1-1/4"	ICK-U230
UC231-IC	3-45/64"	3/8"	-	45°	3/4"	ICK-U231
UP231-IC	4-9/32"	3/8"	-	45°	1-1/4"	ICK-U231



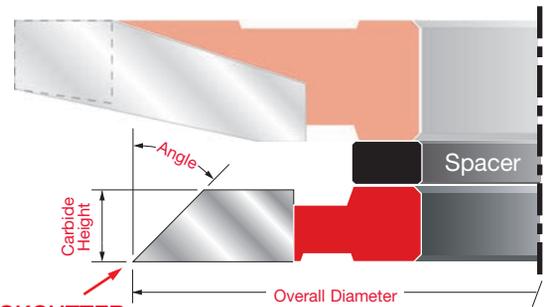
UC230-IC / UP230-IC



UC231-IC / UP231-IC

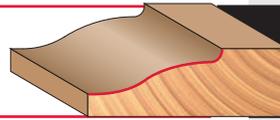


BACKCUTTER



BACKCUTTER

## 2+2 Advanced Cutter Design For 3/4" Stock



# CARBIDE INSERT CUTTER

ITEM NO.	OVERALL DIA.	CARBIDE HEIGHT	MINOR HEIGHT	LARGE RADIUS	SMALL RADIUS	ANGLE	BORE DIA.	RUB COLLAR NO.	REPLACEMENT KNIVES
UC209-IC	4-15/16"	43/64"	1/8"	1-57/64"	-	-	3/4"	RC-002	ICK-U209
UP209-IC	5-1/2"	5/8"	5/64"	1-57/64"	-	-	1-1/4"	RC10#	ICK-U209
UC210-IC	4-15/16"	23/32"	23/64"	1-15/32"	1/8"	-	3/4"	RC-002	ICK-U210
UP210-IC	5-1/2"	5/8"	9/32"	1-15/32"	1/8"	-	1-1/4"	RC10#	ICK-U210
UC211-IC	4-15/16"	5/8"	15/64"	-	-	17°	3/4"	RC-002	ICK-U211
UP211-IC	5-1/2"	5/8"	15/64"	-	-	17°	1-1/4"	RC10#	ICK-U211
UC212-IC	4-15/16"	17/32"	-	13/64"	-	13°	3/4"	RC-002	ICK-U212
UP212-IC	5-1/2"	5/8"	-	13/64"	-	13°	1-1/4"	RC10#	ICK-U212
UC213-IC	4-15/16"	11/16"	21/64"	1-31/32"	1-3/8"	23°	3/4"	RC-002	ICK-U213
UP213-IC	5-1/2"	5/8"	9/32"	1-31/32"	1-3/8"	23°	1-1/4"	RC10#	ICK-U213
UP214-IC	5-1/2"	5/8"	21/64"	13/64"	1/8"	-	1-1/4"	RC10#	ICK-U214
UC215-IC	4-15/16"	5/8"	15/64"	13/64"	-	10°	3/4"	RC-002	ICK-U215
UP215-IC	5-1/2"	5/8"	15/64"	13/64"	-	10°	1-1/4"	RC10#	ICK-U215
UP216-IC	5-1/2"	5/8"	1/4"	9/64"	-	-	1-1/4"	RC10#	ICK-U216
UP217-IC	5-1/2"	7/8"	-	11/64"	9/64"	-	1-1/4"	-	ICK-U217
UP218-IC	5-1/2"	5/8"	1/4"	5/32"	9/64"	-	1-1/4"	RC10#	ICK-U218
UP219-IC	5-1/2"	7/8"	-	1/8"	-	-	1-1/4"	-	ICK-U219
UP220-IC	5-1/2"	7/8"	-	9/32"	5/32"	-	1-1/4"	-	ICK-U220
UC221-IC	4-15/16"	5/8"	15/64"	9/64"	1/8"	4°	3/4"	RC-002	ICK-U221
UP221-IC	5-1/2"	5/8"	15/64"	9/64"	1/8"	4°	1-1/4"	RC10#	ICK-U221
UP222-IC	5-1/2"	7/8"	-	1/8"	-	-	1-1/4"	-	ICK-U222
UC223-IC	4-15/16"	5/8"	13/64"	5/32"	1/8"	10°	3/4"	RC-002	ICK-U223
UP223-IC	5-1/2"	5/8"	13/64"	5/32"	1/8"	10°	1-1/4"	RC10#	ICK-U223

### USE IN



Shaper Machine

### APPLICATION

Designed for 3/4" thick panels. The small cutter, with opposite shear angle, will push wood fibers down and shear them off leaving a crisp edge at the top of the panel, even on cross grain.

### MATERIALS



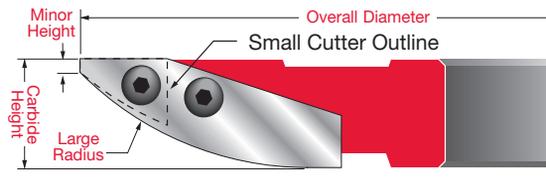
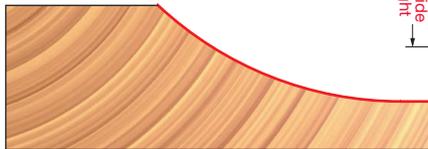
Hardwood

Softwood

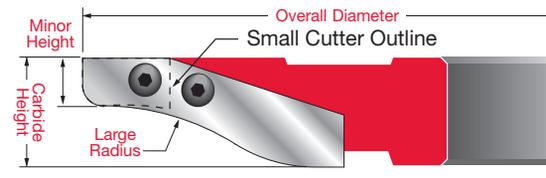
MDF

Plywood

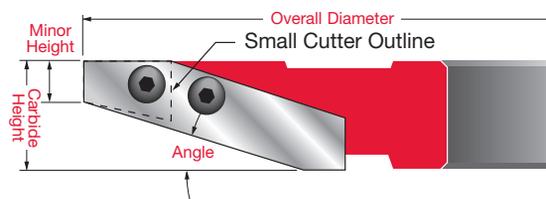
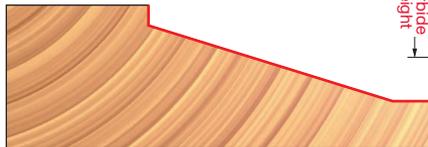
UC209-IC / UP209-IC



UC210-IC / UP210-IC



UC211-IC / UP211-IC

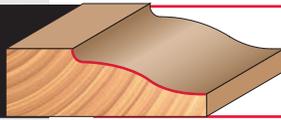


"#" Determines Bore Size  
See Bushing & Rub Collars  
for Bore Selection

Black Item Numbers Indicate 3/4" Bore  
Red Item Numbers Indicate 1-1/4" Bore

All Profile Drawings 1:1 Scale

# CARBIDE INSERT CUTTER



## 2+2 Advanced Cutter Design For 3/4" Stock

CONTINUED

### USE IN



Shaper Machine

### APPLICATION

Designed for 3/4" thick panels. The small cutter, with opposite shear angle, will push wood fibers down and shear them off leaving a crisp edge at the top of the panel, even on cross grain.

### MATERIALS



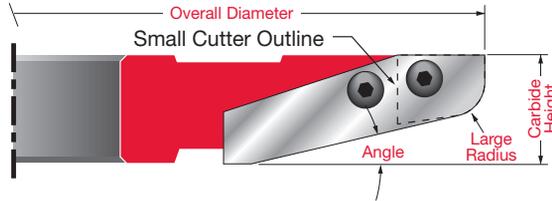
Hardwood

Softwood

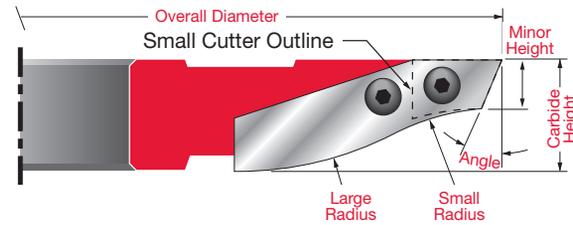
MDF

Plywood

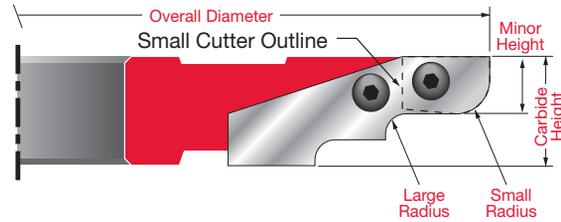
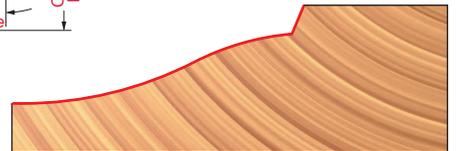
SHAPER CUTTERS



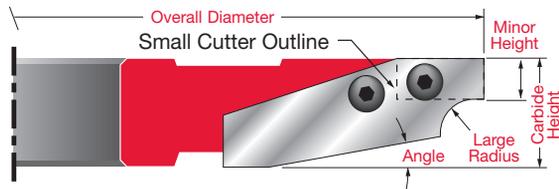
UC212-IC / UP212-IC



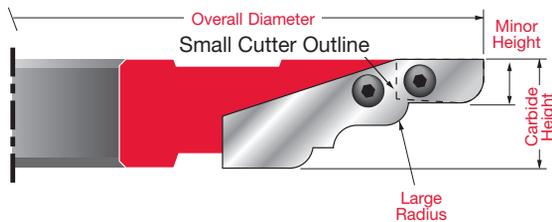
UC213-IC / UP213-IC



UP214-IC



UC215-IC / UP215-IC



UP216-IC



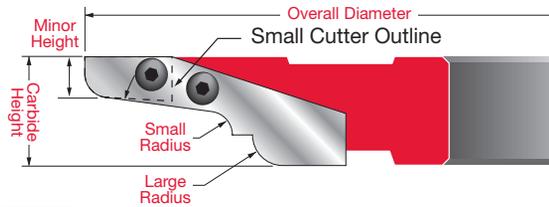
# 2+2 Advanced Cutter Design For 3/4" Stock



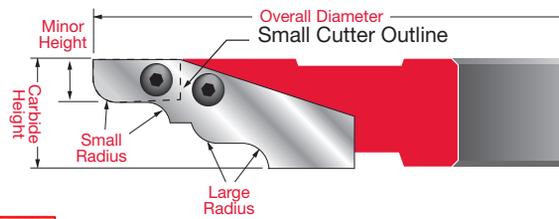
# CARBIDE INSERT CUTTER

CONTINUED

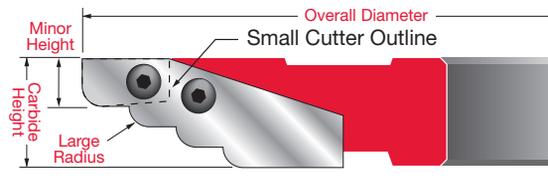
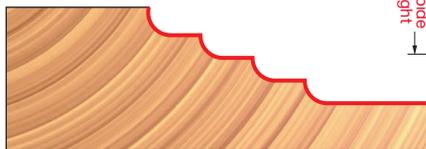
UP217-IC



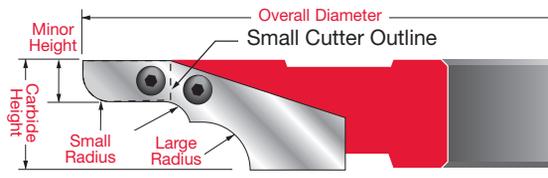
UP218-IC



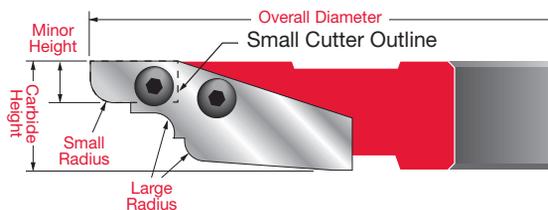
UP219-IC



UP220-IC



UC221-IC / UP221-IC



## USE IN



Shaper Machine

## APPLICATION

Designed for 3/4" thick panels. The small cutter, with opposite shear angle, will push wood fibers down and shear them off leaving a crisp edge at the top of the panel, even on cross grain.

## MATERIALS



Hardwood

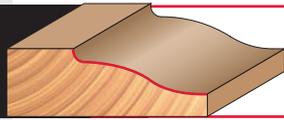
Softwood

MDF

Plywood

SHAPER CUTTERS

# CARBIDE INSERT CUTTER



## 2+2 Advanced Cutter Design For 3/4" Stock

CONTINUED

### USE IN



Shaper Machine

### APPLICATION

Designed for 3/4" thick panels. The small cutter, with opposite shear angle, will push wood fibers down and shear them off leaving a crisp edge at the top of the panel, even on cross grain.

### MATERIALS



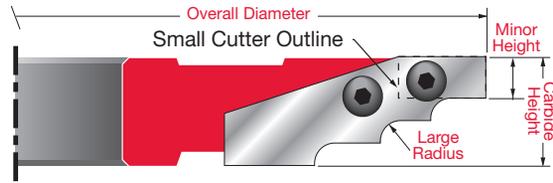
Hardwood

Softwood

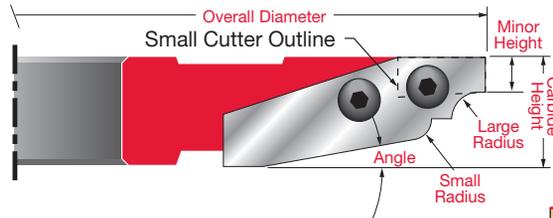
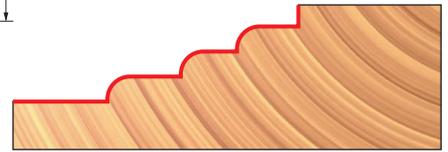
MDF

Plywood

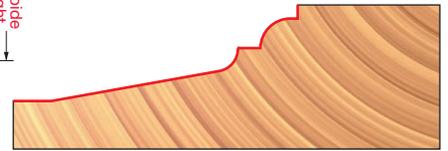
SHAPER CUTTERS



UP222-IC



UC223-IC / UP223-IC



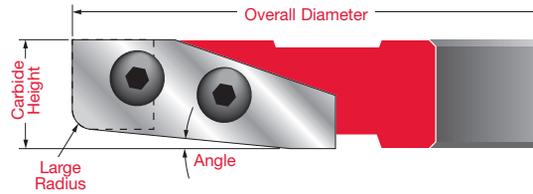
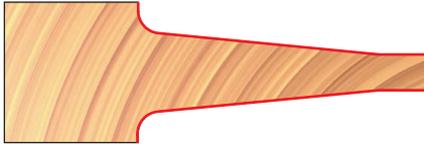
## 2+2 Advanced Cutter Design For Double-Sided Panels



## CARBIDE INSERT CUTTER

ITEM NUMBER	OVERALL DIA.	CARBIDE HEIGHT	LARGE RADIUS	ANGLE	BORE DIA.
UP016	5-1/2"	5/8"	1/8"	6°	1-1/4"

UP016



### USE IN



Shaper Machine

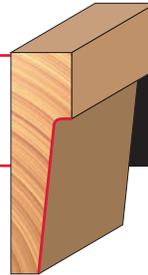
### APPLICATION

Ideal for double-sided raised panel interior and exterior doors

### MATERIALS

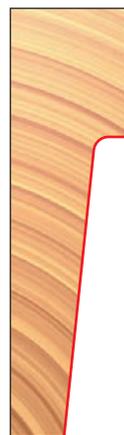


## Vertical Insert Raised Panel Cutter

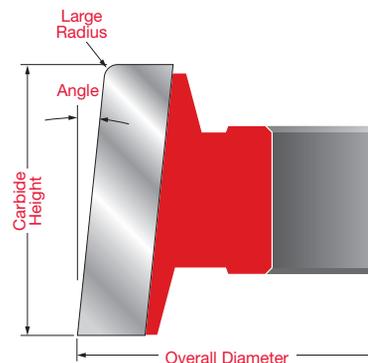


## CARBIDE INSERT CUTTER

ITEM NUMBER	OVERALL DIA.	CARBIDE HEIGHT	LARGE RADIUS	ANGLE	BORE DIA.
UP003	3-9/16"	1-57/64"	5/64"	6°	1-1/4"



UP003



### USE IN



Shaper Machine

### APPLICATION

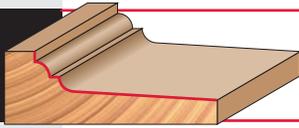
Provide a full profile reveal, while keeping cutter diameter to a minimum. This reduces the stress on the spindle and will work well on lower powered shapers.

### MATERIALS



SHAPER CUTTERS

# FIXED WING CUTTER



## The "Duplex" Multi-Profile Insert Raised Panel Cutter

### USE IN



Shaper Machine

### APPLICATION

Create custom raised panel profiles with just one cutter. Create eight different profiles using only one pass. Different profiles can be obtained by running the stock over or under the head and changing the height of the cutter.

### MATERIALS



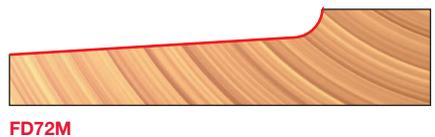
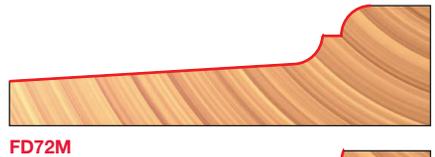
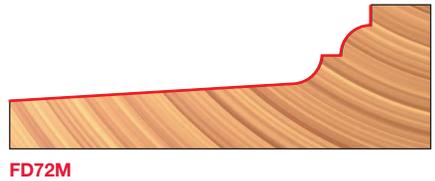
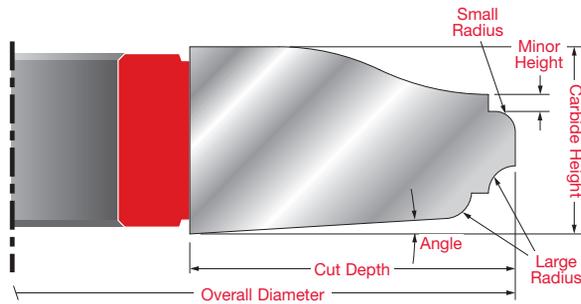
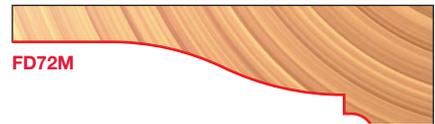
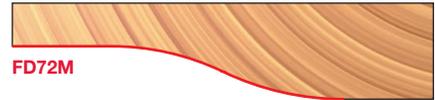
Hardwood

Softwood

MDF

Plywood

ITEM NUMBER	OVERALL DIA.	CUT DEPTH	CARBIDE HEIGHT	MINOR HEIGHT	LARGE RADIUS	SMALL RADIUS	ANGLE	BORE DIA.
FD72M	5-29/32"	1-7/8"	1-5/64"	3/32"	5/32"	1/8"	3.5°	1-1/4"



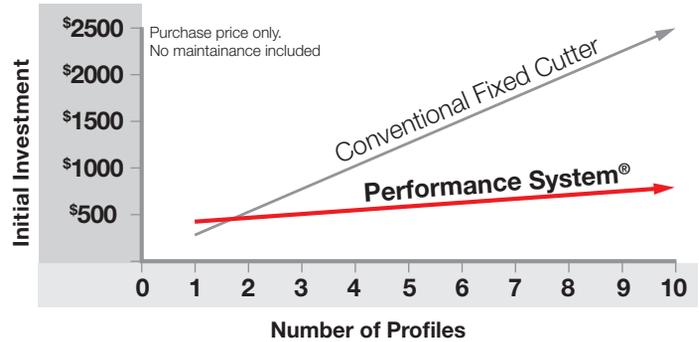
# PERFORMANCE ADVANTAGE

## FREUD PERFORMANCE SYSTEM® SHAPER CUTTERS

### The Performance System® **Cost Advantage** Over Conventional Fixed Cutters

#### Cost Per Profile

Freud's Performance System® cutters are designed for maximum performance, flexibility and savings. When a new profile cutter is needed, the investment cost of the Performance System® drops well below that of conventional fixed wing cutters. With the Performance System®, all that is required is a set of profile knives. With conventional cutters a complete new cutter must be purchased.



#### Performance System®

#### Conventional Fixed Cutter

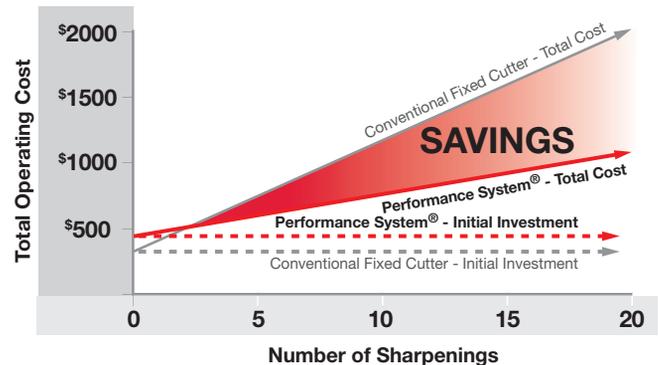


#### Operating Cost Per Sharpening

Freud's Performance System® cutters are less expensive to operate. With the patented sharpening system, all that is required is face grinding the insert knives on a surface grinder. This method is both fast and inexpensive. When the knives can no longer be sharpened, they are easily replaced. With conventional fixed wing cutters, a completely new cutter must be purchased.

#### Total Operating Cost

When examining the overall operating cost of conventional fixed wing cutters vs. the savings with Freud's Performance System®, the amount saved grows rapidly. The chart to the right shows the true operating cost through 20 sharpenings. Freud's Performance System® makes up the difference in the initial investment, well before the fifth sharpening. The longer the cutter is used, the more the Performance System® investment pays off.



To determine the operating cost the following parameters were used:

The average cost to sharpen a conventional fixed cutter rail & stile set is \$29.00, and the average cost to sharpen a pair of knives is \$12.00. After five sharpenings the knives and fixed cutters were expended and replaced. The Performance System® will last longer between sharpenings due to the system's ability to use a harder micrograin carbide. The cost for cutterheads, knives and conventional cutters is at list price.

# PERFORMANCE SYSTEM® CUTTERS

## USE IN



Shaper Machine

## APPLICATION

Create 10 different styles of raised panel cabinet doors at a fraction of the cost of fixed knife cutters. These cutters have a specially designed raised panel knife that leaves cross grain cuts as smooth and splinter-free as cuts with the grain.

This raised panel cutter system can be used either with the Performance System® Rail and Stile cutter or with standard fixed wing rail and stile cutters.

## MATERIALS



Hardwood

Softwood

MDF

Plywood

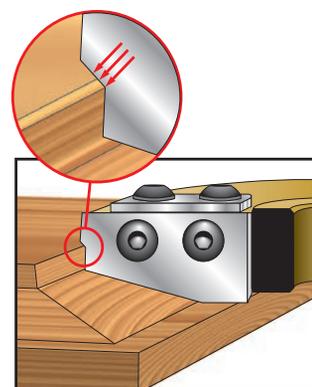
## RP1000 & RP2000 Panel Raising Systems



RP1000

### Splinter Free Cuts

Typical raised panel cutters leave splinters when cutting across the end grain. Freud's cutter pushes down and shears off the wood fibers leaving it splinter-free and reducing the amount of sanding required.



### Panel Raising Cutter Head: RP1000

ITEM NUMBER	PART DESCRIPTION	BORE DIAMETER	RUB COLLAR NUMBER	OVERALL DIAMETER
RP1000	Insert Cutter Head	1-1/4"	RC10#	5-1/2"

### Panel Raising System: RP2000

ITEM NUMBER	PART DESCRIPTION	BORE DIAMETER	RUB COLLAR NUMBER	OVERALL DIAMETER
RP1000	Insert Cutter Head	1-1/4"	RC10#	5-1/2"
RP-OPS	Back Cutter	1-1/4"	-	-
RP-A	Profile Knife	-	-	-
RP-B	Profile Knife	-	-	-
RP-C	Profile Knife	-	-	-
RP-D	Profile Knife	-	-	-
RP-E	Profile Knife	-	-	-

# RP1000 & RP2000 Panel Raising Systems

# PERFORMANCE SYSTEM® CUTTERS

CONTINUED

## Individual Component Listing *(Each item available separately)*

ITEM NUMBER	PART DESCRIPTION	BORE DIAMETER	RUB COLLAR NUMBER	OVERALL DIAMETER
RP1000	Insert Cutter Head	1-1/4"	RC10#	5-1/2"
RP-OPS	Back Cutter	1-1/4"	-	-
RP-OPB	Back Cutter	1-1/4"	-	-
RP-A	Profile Knife*	-	-	-
RP-A34	Profile Knife**	-	-	-
RP-B	Profile Knife*	-	-	-
RP-B34	Profile Knife**	-	-	-
RP-C	Profile Knife*	-	-	-
RP-C34	Profile Knife**	-	-	-
RP-D	Profile Knife*	-	-	-
RP-D34	Profile Knife**	-	-	-
RP-E	Profile Knife*	-	-	-
RP-E34	Profile Knife**	-	-	-

\* Primarily for raising 5/8" thick panels but can be used to raise 3/4" thick panels when combined with a back cutter.

\*\* For 3/4" raising 3/4" thick panels.

### USE IN



Shaper Machine

### APPLICATION

For raising 5/8" or 3/4" panels with 1/4" tongues. When used with 3/4" rail and stiles, the panel will extend outside the door frame. The specially designed knife removes all splinters on cross grain cuts.

### MATERIALS

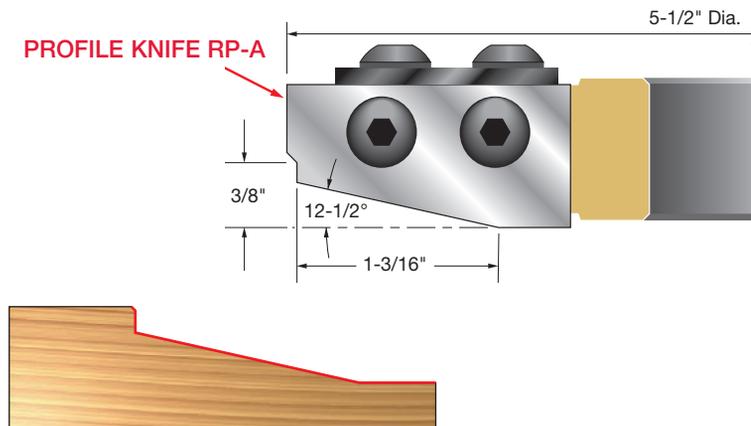


## Profile Knife RP-A

# PERFORMANCE SYSTEM® CUTTERS

SHAPER CUTTERS

Uses: Knife RP-A and Head RP1000



### USE IN



Shaper Machine

### APPLICATION

Raising 5/8" thick panels with 1/4" tongues. Can be used for raising 3/4" panels when using optional back cutters RP-OPS or RP-OPB. The specially designed knife removes all splinters on cross grain cuts.

### MATERIALS



# PERFORMANCE SYSTEM® CUTTERS

## USE IN



Shaper Machine

## APPLICATION

Raising 3/4" thick panels with 1/4" tongues. When used with 3/4" rail and stiles, the panel will extend outside the door frame. The specially designed knife removes all splinters on cross grain cuts.

## MATERIALS



Hardwood

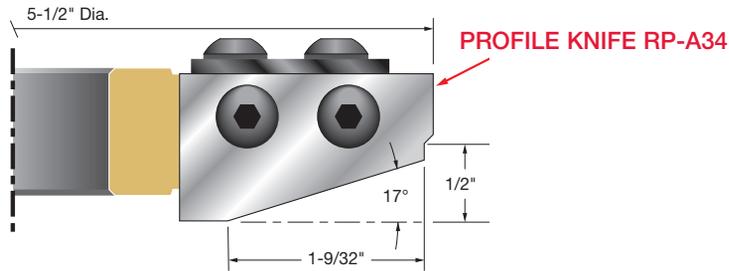
Softwood

MDF

Plywood

## Profile Knife RP-A34

Uses: Knife RP-A34 and Head RP1000



# PERFORMANCE SYSTEM® CUTTERS

## Profile Knife RP-B

## USE IN



Shaper Machine

## APPLICATION

Raising 5/8" thick panels with 1/4" tongues. Can be used for raising 3/4" panels when using optional back cutters RP-OPS or RP-OPB. The specially designed knife removes all splinters on cross grain cuts.

## MATERIALS



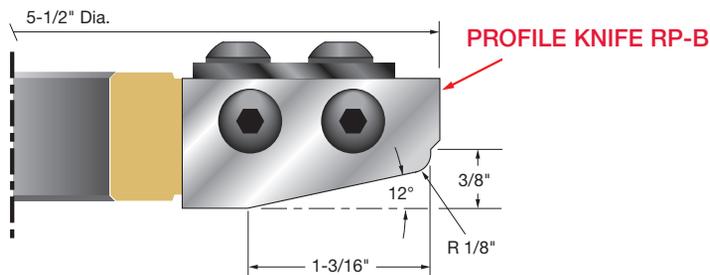
Hardwood

Softwood

MDF

Plywood

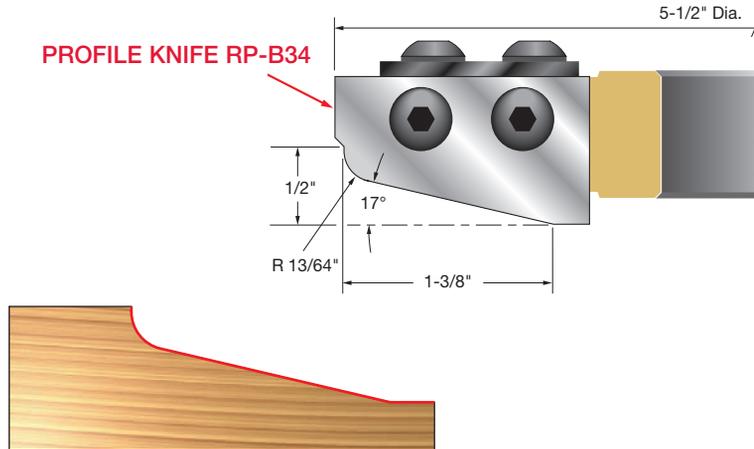
Uses: Knife RP-B and Head RP1000



SHAPER CUTTERS

## Profile Knife RP-B34

Uses: Knife RP-B34 and Head **RP1000**



## PERFORMANCE SYSTEM® CUTTERS

### USE IN



Shaper Machine

### APPLICATION

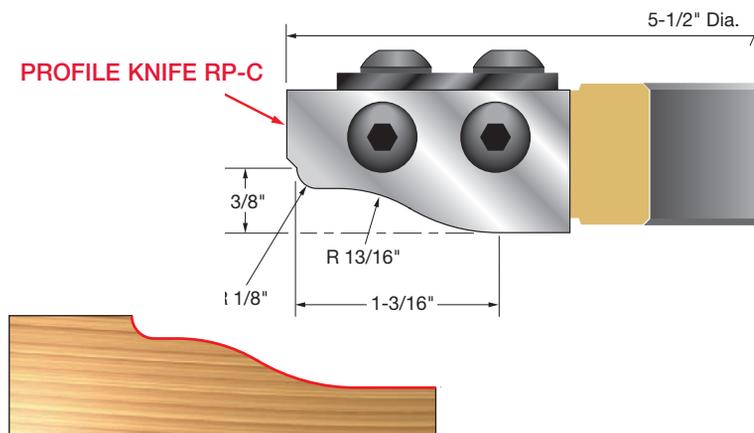
Raising 3/4" thick panels with 1/4" tongues. When used with 3/4" rail and stiles, the panel will extend outside the door frame. The specially designed knife removes all splinters on cross grain cuts.

### MATERIALS



## Profile Knife RP-C

Uses: Knife RP-C and Head **RP1000**



## PERFORMANCE SYSTEM® CUTTERS

### USE IN



Shaper Machine

### APPLICATION

Raising 5/8" thick panels with 1/4" tongues. Can be used for raising 3/4" panels when using optional back cutters RP-OPS or RP-OPB. The specially designed knife removes all splinters on cross grain cuts.

### MATERIALS



SHAPER CUTTERS

# PERFORMANCE SYSTEM® CUTTERS

## USE IN



Shaper Machine

## APPLICATION

Raising 3/4" thick panels with 1/4" tongues. When used with 3/4" rail and stiles, the panel will extend outside the door frame. The specially designed knife removes all splinters on cross grain cuts.

## MATERIALS



Hardwood

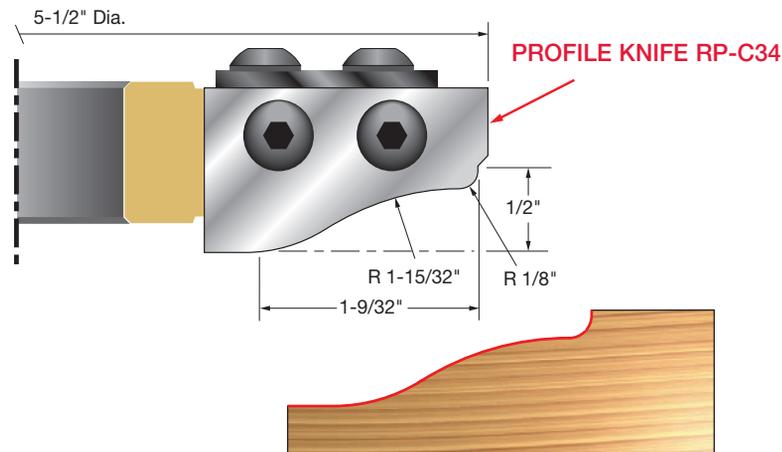
Softwood

MDF

Plywood

## Profile Knife RP-C34

Uses: Knife RP-C34 and Head RP1000



SHAPER CUTTERS

# PERFORMANCE SYSTEM® CUTTERS

## Profile Knife RP-D

## USE IN



Shaper Machine

## APPLICATION

Raising 5/8" thick panels with 1/4" tongues. Can be used for raising 3/4" panels when using optional back cutters RP-OPS or RP-OPB. The specially designed knife removes all splinters on cross grain cuts.

## MATERIALS



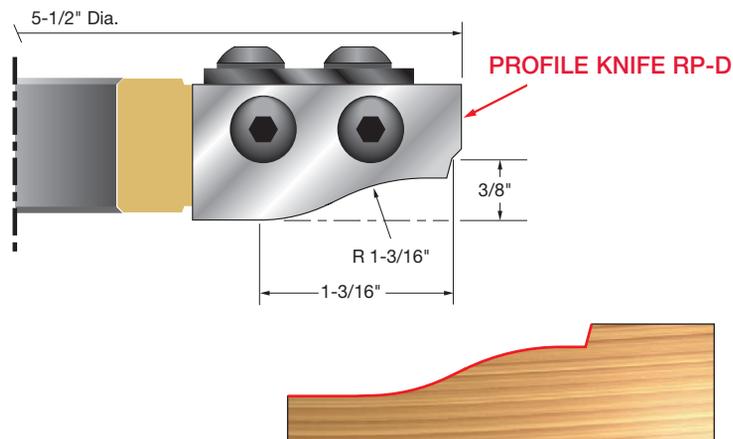
Hardwood

Softwood

MDF

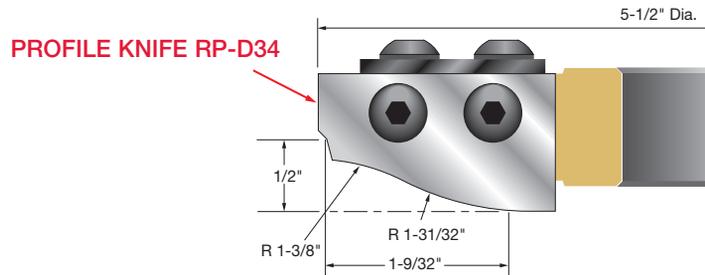
Plywood

Uses: Knife RP-D and Head RP1000



## Profile Knife RP-D34

Uses: Knife RP-D34 and Head **RP1000**



## PERFORMANCE SYSTEM® CUTTERS

### USE IN



Shaper Machine

### APPLICATION

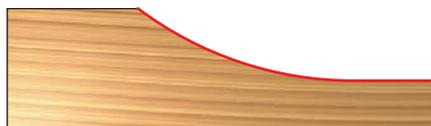
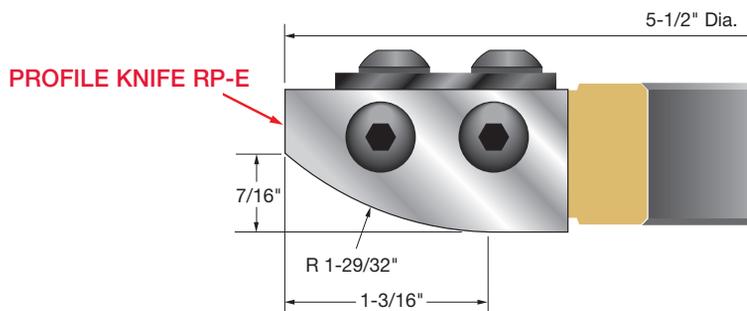
Raising 3/4" thick panels with 1/4" tongues. When used with 3/4" rail and stiles, the panel will extend outside the door frame. The specially designed knife removes all splinters on cross grain cuts.

### MATERIALS



## Profile Knife RP-E

Uses: Knife RP-E and Head **RP1000**



## PERFORMANCE SYSTEM® CUTTERS

### USE IN



Shaper Machine

### APPLICATION

Raising 5/8" thick panels with 1/4" tongues. Can be used for raising 3/4" panels when using optional back cutters RP-OPS or RP-OPB. The specially designed knife removes all splinters on cross grain cuts.

### MATERIALS



SHAPER CUTTERS

# PERFORMANCE SYSTEM® CUTTERS

## USE IN



Shaper Machine

## APPLICATION

Raising 3/4" thick panels with 1/4" tongues. When used with 3/4" rail and stiles, the panel will extend outside the door frame. The specially designed knife removes all splinters on cross grain cuts.

## MATERIALS



Hardwood



Softwood



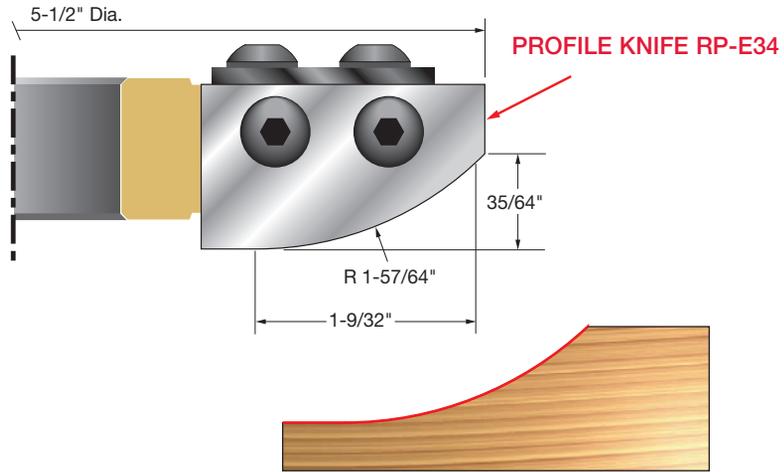
MDF



Plywood

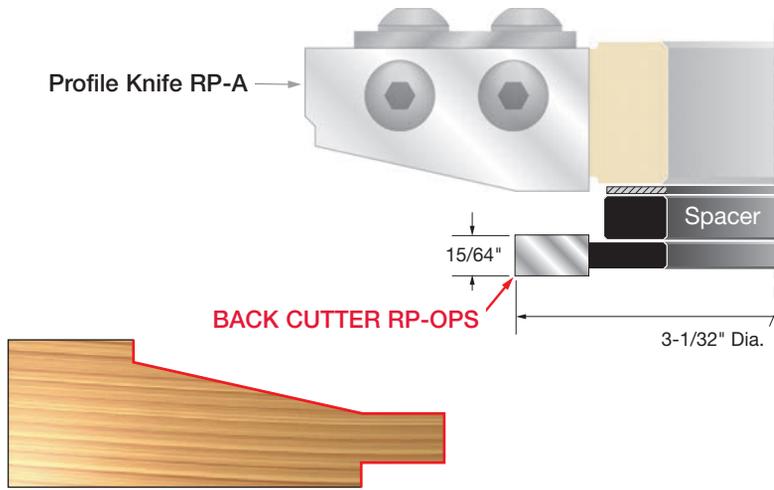
## Profile Knife RP-E34

Uses: Knife RP-E34 and Head RP1000



## RP-OPS Back-Cutter For Performance System® Raised Panel Cutters

Uses: Knife RP-A, Head RP1000 and Back Cutter RP-OPS



## PERFORMANCE SYSTEM® CUTTERS

### USE IN



Shaper Machine

### APPLICATION

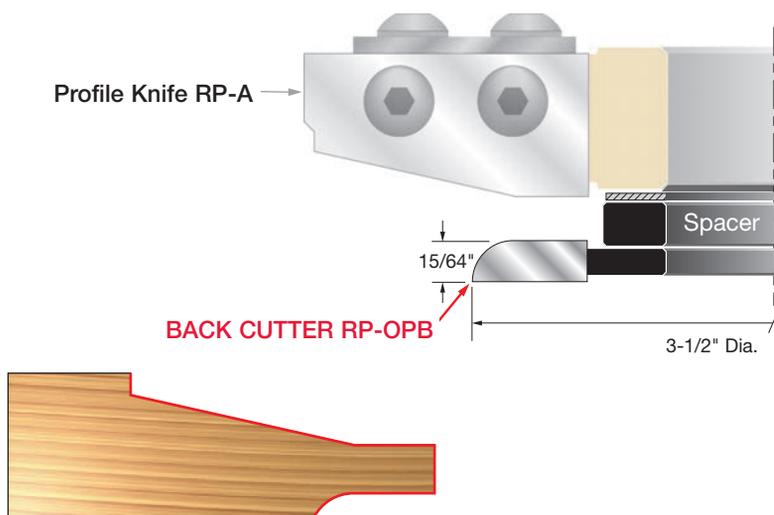
Designed to be used with knives RP-A, RP-B, RP-C, RP-D, or RP-E on the RP1000 head. This allows the use of 3/4" to 13/16" thick panels while maintaining a 1/4" tongue.

### MATERIALS



## RP-OPB Back-Cutter For Performance System® Raised Panel Cutters

Uses: Knife RP-A, Head RP1000 and Back Cutter RP-OPB



## PERFORMANCE SYSTEM® CUTTERS

### USE IN



Shaper Machine

### APPLICATION

Designed to be used with knives RP-A, RP-B, RP-C, RP-D, or RP-E on the RP1000 head. This allows the use of 3/4" to 13/16" thick panels while maintaining a 1/4" tongue.

### MATERIALS



SHAPER CUTTERS

# PERFORMANCE SYSTEM® CUTTERS

## USE IN



Shaper Machine

## APPLICATION

Creates over 18 profiles of rail and stiles for cabinet doors at a fraction of the cost of fixed knife cutters.

## MATERIALS



Hardwood

Softwood

MDF

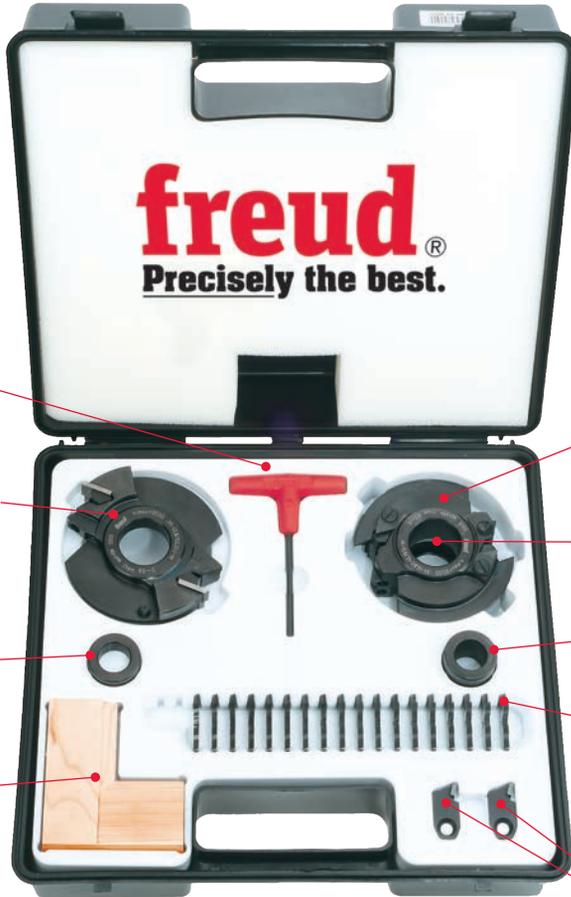
Plywood

SHAPER CUTTERS

# RS1000 & RS2000 Rail & Stile Door Systems



Resharpener TiCo™ Hi-Density Carbide knives



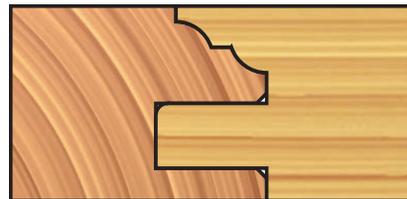
- Wrench
- RS-S Cutterheads
- Bushings
- Sample of a rail and stile
- RS-R Cutterheads
- RS-K Groover Knife
- Bushings
- 9 Different Pairs of Profile Knives
- RS-L Back Tenon Knives

### RS2000

(RS1000 - both cutter heads (RS-S, RS-R), groover knives (RS-K), and the glass door and back tenon knife (RS-L) - plus 9 different profile knives)

### Back View of Tenon Joint

This system makes perfect tenon joints, even after it has been sharpened.



## RS1000 & RS2000 Rail & Stile Door Systems

## PERFORMANCE SYSTEM® CUTTERS

### Rail and Stile Door System: RS1000

ITEM NUMBER	PART DESCRIPTION	BORE DIAMETER	RUB COLLAR NUMBER	OVERALL DIAMETER
RS-S	Insert Cutter Head	1-1/4"	RSC-0#	4-7/16"
RS-R	Insert Cutter Head	1-1/4"	RSC-0#	4-7/16"
RS-K**	Groover Knives	-	-	-
RS-L*	Back Tenon Knife	-	-	-

### Rail and Stile Door System: RS2000

ITEM NUMBER	PART DESCRIPTION	BORE DIAMETER	RUB COLLAR NUMBER	OVERALL DIAMETER
RS-S	Insert Cutter Head	1-1/4"	RSC-0#	4-7/16"
RS-R	Insert Cutter Head	1-1/4"	RSC-0#	4-7/16"
RS-K**	Groover Knives	-	-	-
RS-L*	Back Tenon Knife	-	-	-
RS-A	Profile Knives	-	-	-
RS-B	Profile Knives	-	-	-
RS-C	Profile Knives	-	-	-
RS-D	Profile Knives	-	-	-
RS-E	Profile Knives	-	-	-
RS-F	Profile Knives	-	-	-
RS-G	Profile Knives	-	-	-
RS-H	Profile Knives	-	-	-
RS-I	Profile Knives	-	-	-

##" Determines bore size. See Bushing & Rub Collars for bore selection.

\* Glass Door and Back Tenon knife for Head RS-S

\*\*Groover Knives for Head RS-R

#### USE IN



Shaper Machine

#### APPLICATION

Creates over 18 profiles of rail and stiles for cabinet doors at a fraction of the cost of fixed knife cutters

#### MATERIALS



Hardwood

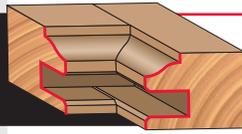
Softwood

MDF

Plywood

SHAPER CUTTERS

# PERFORMANCE SYSTEM® CUTTERS



## Profile Knife RS-A Raised Panel Door Set-Up

### USE IN



Shaper Machine

### APPLICATION

Constructing raised panel doors with eased over edges on the inside of the panel groove for less splintering, easier finishing, and easier insertion of panels. Shimming should be done between the cutter heads to achieve the fit required.

### MATERIALS



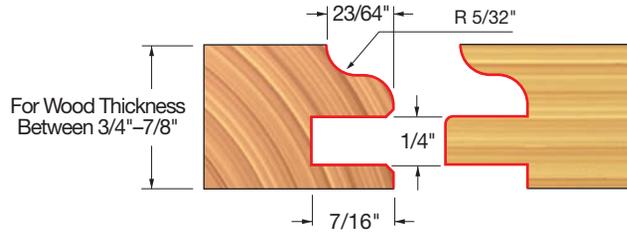
Hardwood

Softwood

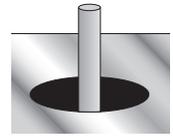
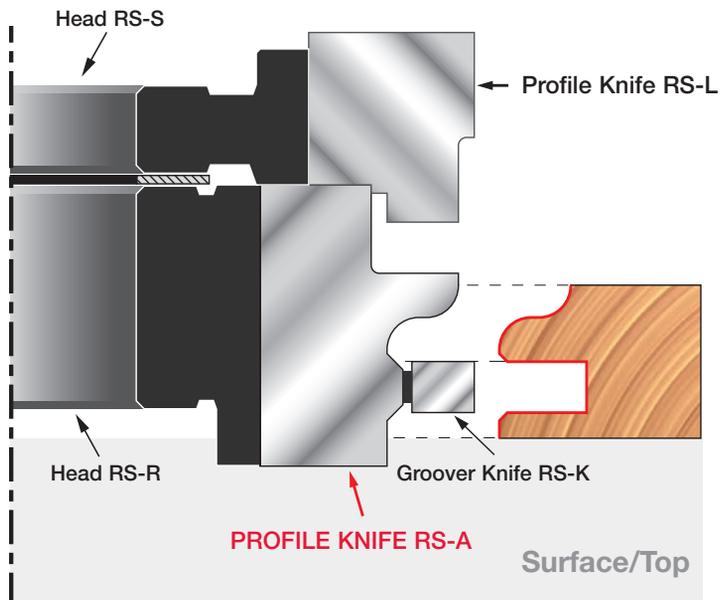
MDF

Plywood

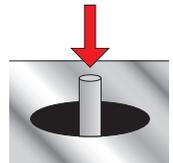
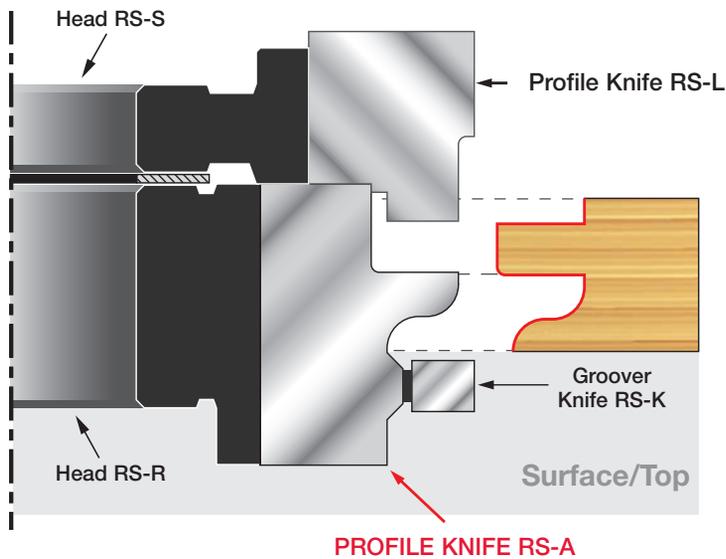
SHAPER CUTTERS



Uses: Knife RS-A, Knife RS-L, Head RS-R, and Head RS-S

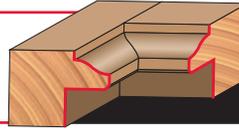


Spindle in Starting Position for Profile Cut

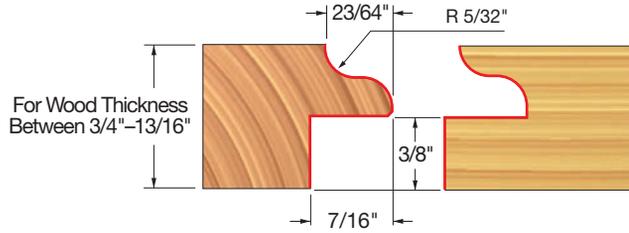


Spindle Lowered for Cope Cut

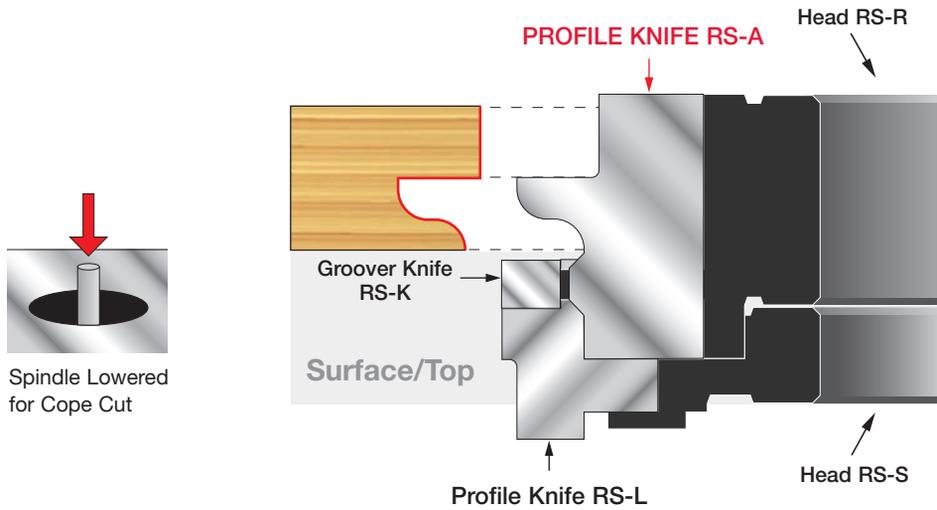
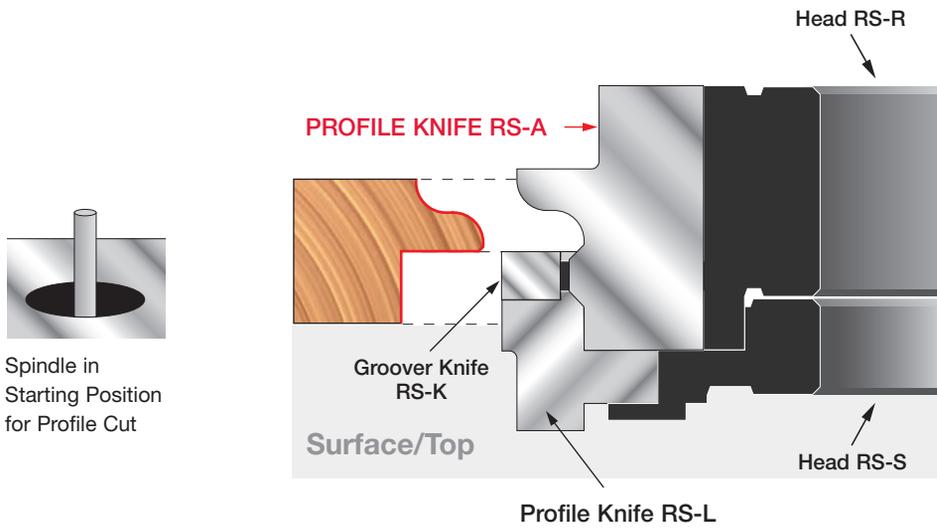
# Profile Knife RS-A Glass Panel Door Set-Up



# PERFORMANCE SYSTEM® CUTTERS



Uses: Knife RS-A, Knife RS-L, Head RS-R, and Head RS-S



## USE IN



Shaper Machine

## APPLICATION

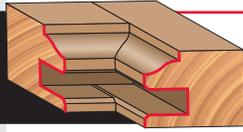
Allows for the insertion and removal of a glass panel on a rabbeted groove. Use a small molding to hold glass in place. No shimming should be needed.

## MATERIALS



SHAPER CUTTERS

# PERFORMANCE SYSTEM® CUTTERS



## Profile Knife RS-B Raised Panel Door Set-Up

### USE IN



Shaper Machine

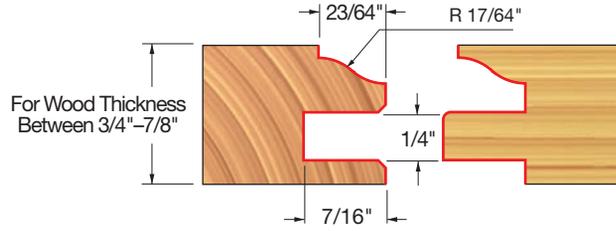
### APPLICATION

Constructing raised panel doors with eased over edges on the inside of the panel groove for less splintering, easier finishing, and easier insertion of panels. Shimming should be done between the cutter heads to achieve the fit required.

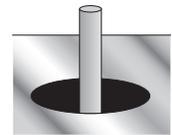
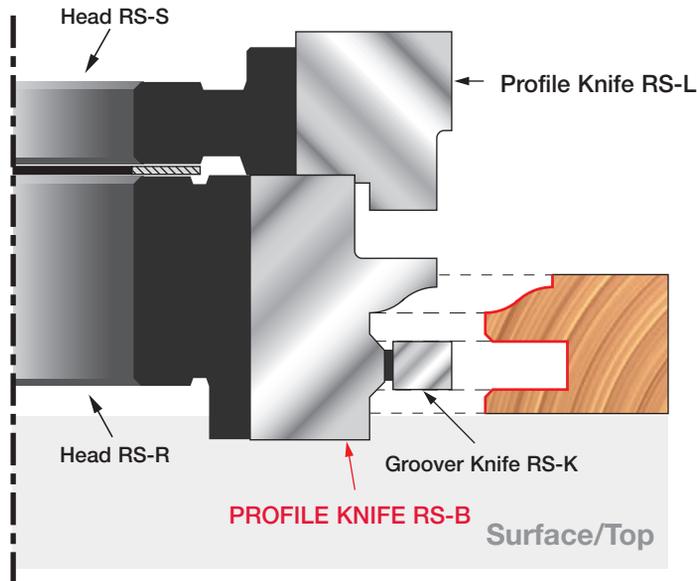
### MATERIALS



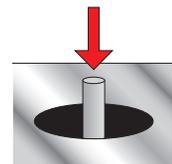
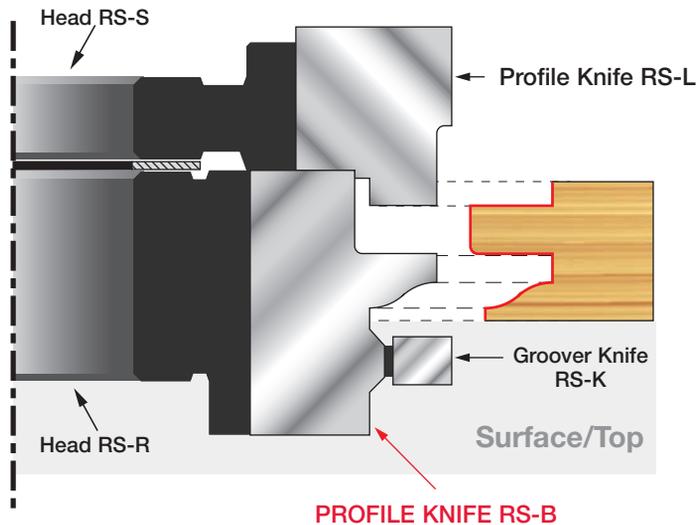
SHAPER CUTTERS



Uses: Knife RS-B, Knife RS-L, Head RS-R, and Head RS-S

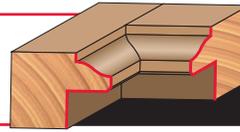


Spindle in Starting Position for Profile Cut

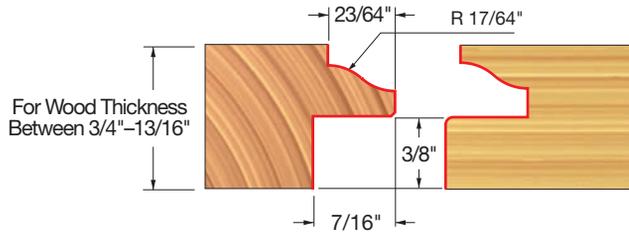


Spindle Lowered for Cope Cut

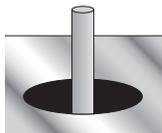
# Profile Knife RS-B Glass Panel Door Set-Up



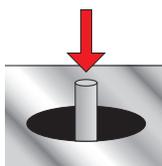
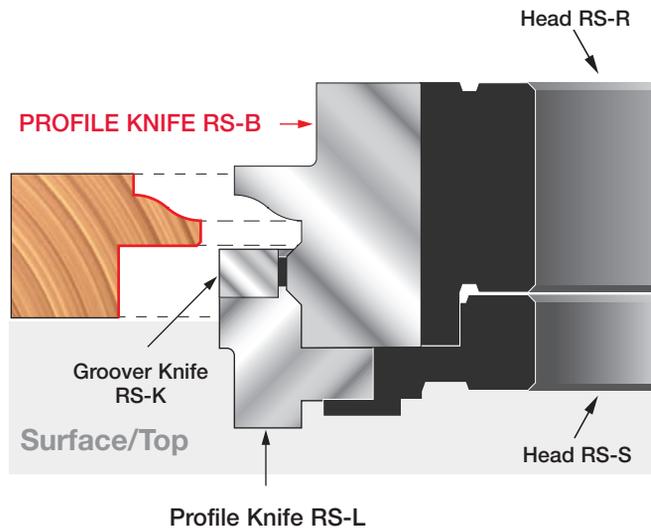
## PERFORMANCE SYSTEM® CUTTERS



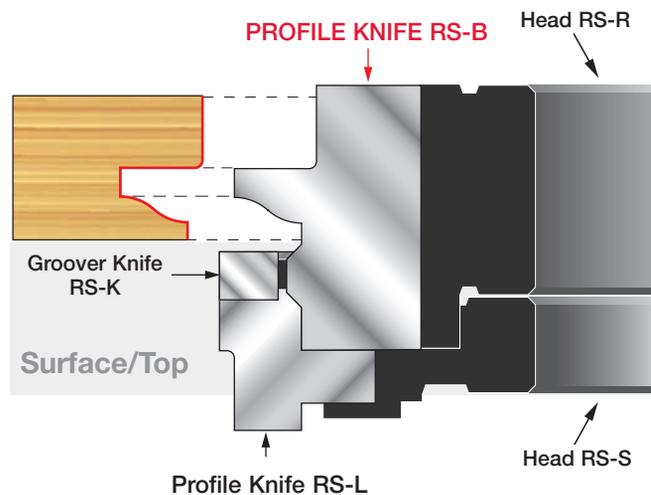
Uses: Knife RS-B, Knife RS-L, Head RS-R, and Head RS-S



Spindle in Starting Position for Profile Cut



Spindle Lowered for Cope Cut



### USE IN



Shaper Machine

### APPLICATION

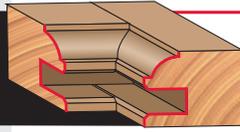
Allows for the insertion and removal of a glass panel on a rabbeted groove. Use a small molding to hold glass in place. No shimming should be needed.

### MATERIALS



SHAPER CUTTERS

# PERFORMANCE SYSTEM® CUTTERS



## Profile Knife RS-C Raised Panel Door Set-Up

### USE IN



Shaper Machine

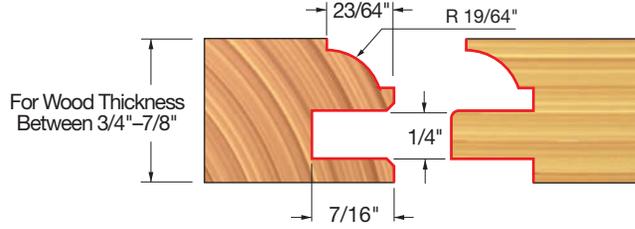
### APPLICATION

Constructing raised panel doors with eased over edges on the inside of the panel groove for less splintering, easier finishing, and easier insertion of panels. Shimming should be done between the cutter heads to achieve the fit required.

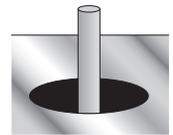
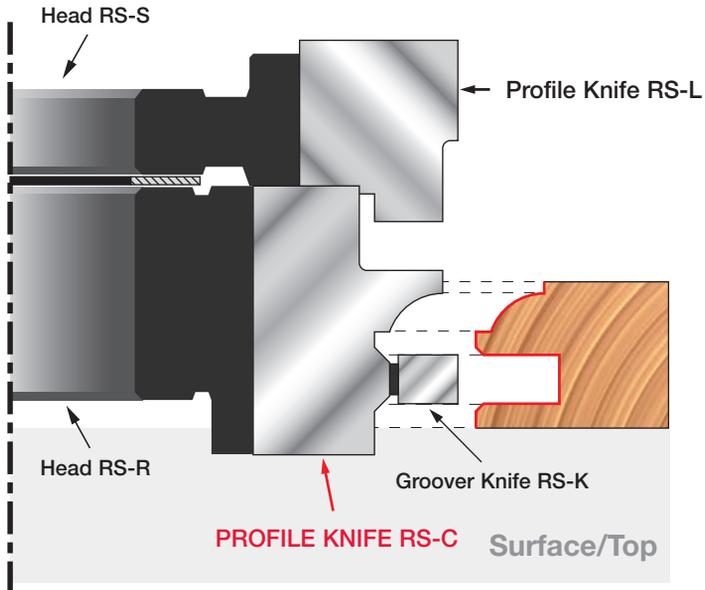
### MATERIALS



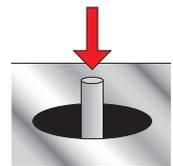
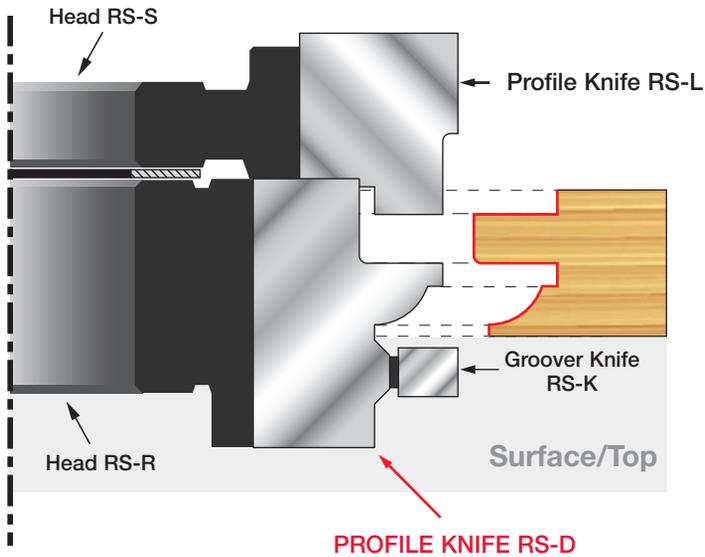
SHAPER CUTTERS



Uses: Knife RS-C, Knife RS-D, Knife RS-L, Head RS-R, and Head RS-S

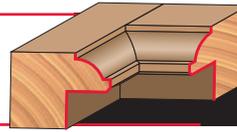


Spindle in Starting Position for Profile Cut

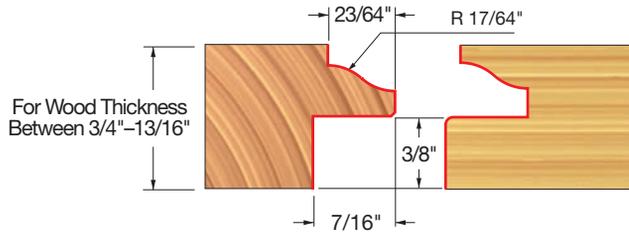


Spindle Lowered for Cope Cut

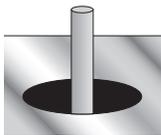
# Profile Knife RS-C Glass Panel Door Set-Up



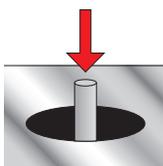
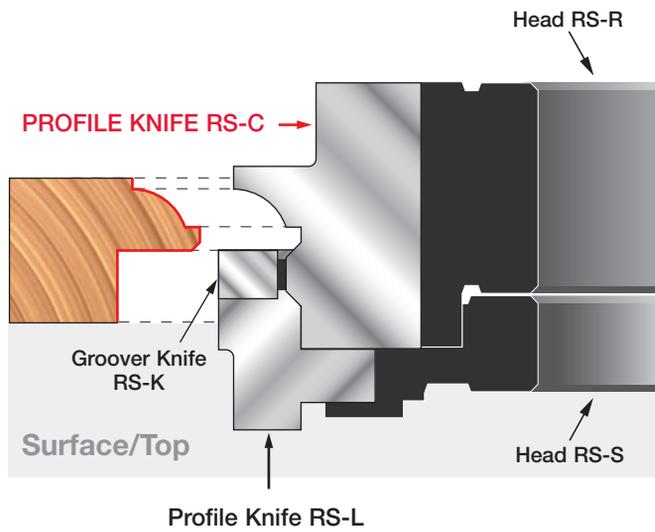
# PERFORMANCE SYSTEM® CUTTERS



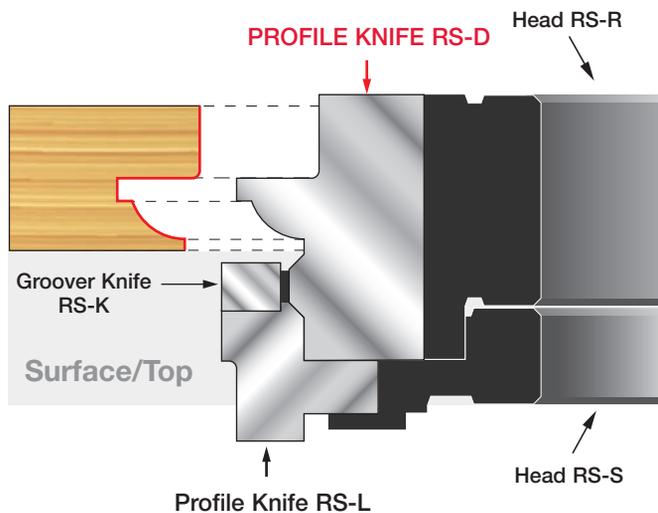
Uses: Knife RS-C, Knife RS-D, Knife RS-L, Head RS-R, and Head RS-S



Spindle in Starting Position for Profile Cut



Spindle Lowered for Cope Cut



## USE IN



Shaper Machine

## APPLICATION

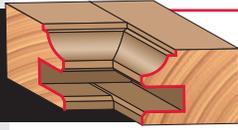
Allows for the insertion and removal of a glass panel on a rabbeted groove. Use a small molding to hold glass in place. No shimming should be needed.

## MATERIALS



SHAPER CUTTERS

# PERFORMANCE SYSTEM® CUTTERS



## Profile Knife RS-D Raised Panel Door Set-Up

### USE IN



Shaper Machine

### APPLICATION

Constructing raised panel doors with eased over edges on the inside of the panel groove for less splintering, easier finishing, and easier insertion of panels. Shimming should be done between the cutter heads to achieve the fit required.

### MATERIALS



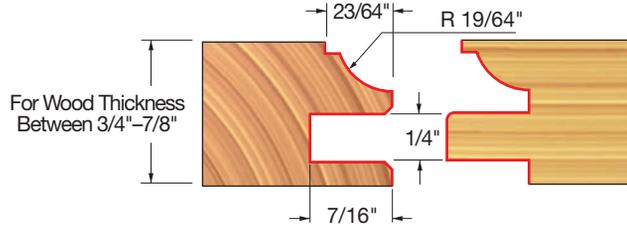
Hardwood

Softwood

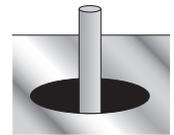
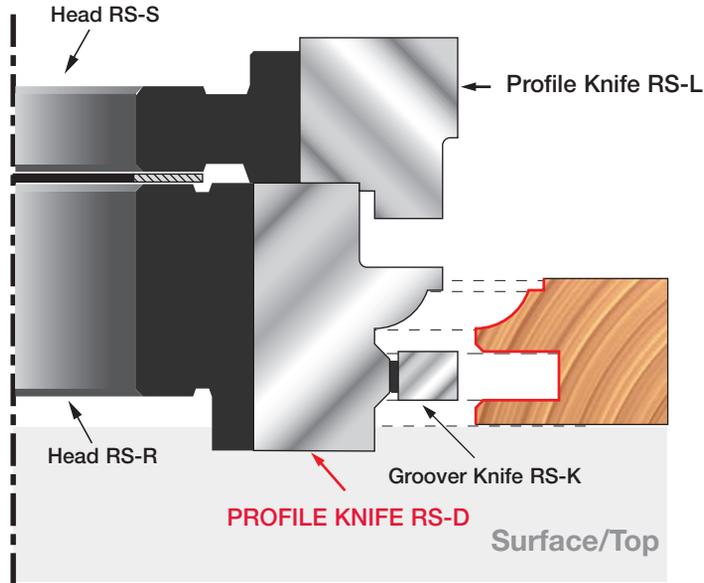
MDF

Plywood

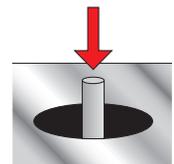
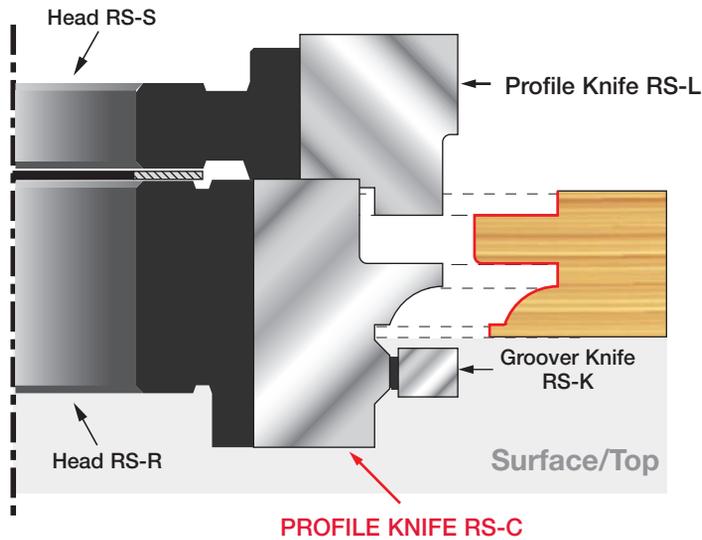
SHAPER CUTTERS



Uses: Knife RS-D, Knife RS-C, Knife RS-L, Head RS-R, and Head RS-S

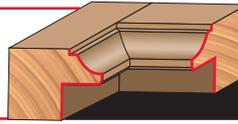


Spindle in Starting Position for Profile Cut

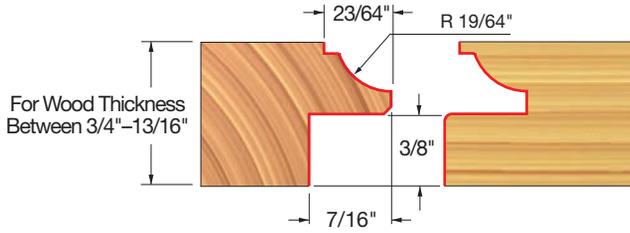


Spindle Lowered for Cope Cut

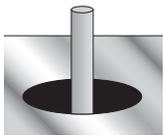
# Profile Knife RS-D Glass Panel Door Set-Up



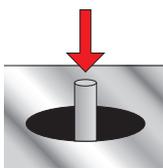
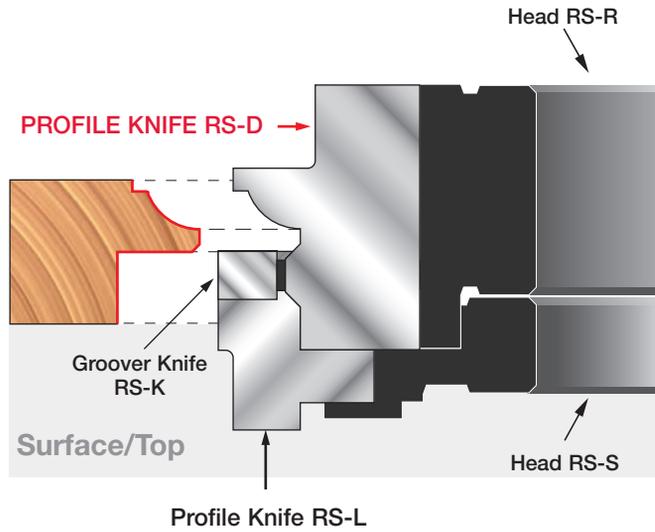
# PERFORMANCE SYSTEM® CUTTERS



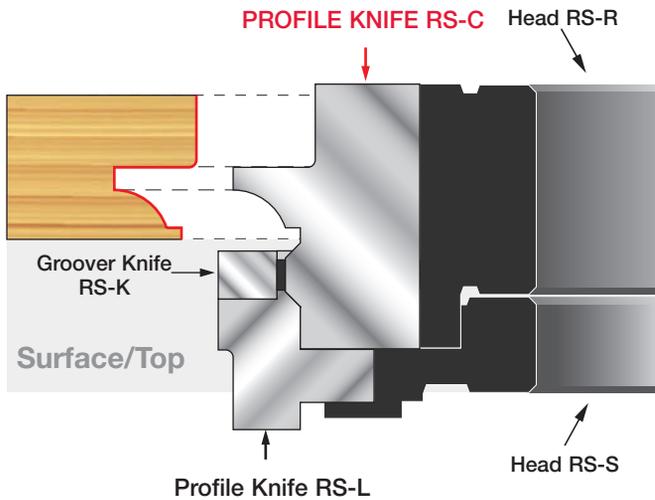
Uses: Knife RS-D, Knife RS-C, Knife RS-L, Head RS-R, and Head RS-S



Spindle in Starting Position for Profile Cut



Spindle Lowered for Cope Cut



## USE IN



Shaper Machine

## APPLICATION

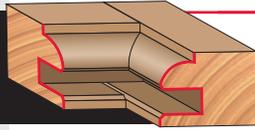
Allows for the insertion and removal of a glass panel on a rabbeted groove. Use a small molding to hold glass in place. No shimming should be needed.

## MATERIALS



SHAPER CUTTERS

# PERFORMANCE SYSTEM® CUTTERS



## Profile Knife RS-E Raised Panel Door Set-Up

### USE IN



Shaper Machine

### APPLICATION

Constructing raised panel doors with eased over edges on the inside of the panel groove for less splintering, easier finishing, and easier insertion of panels. Shimming should be done between the cutter heads to achieve the fit required.

### MATERIALS



Hardwood

Softwood

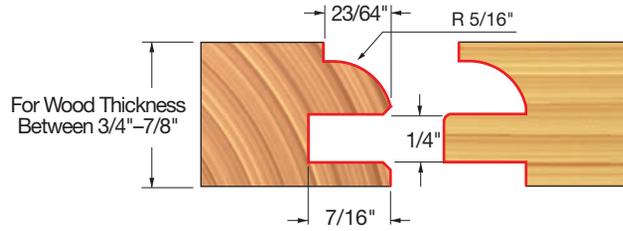


MDF

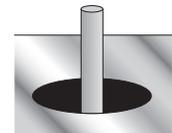
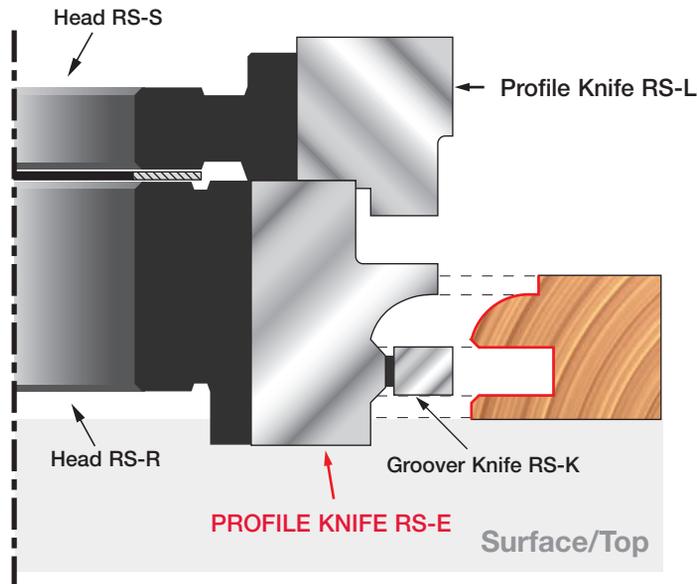


Plywood

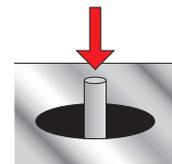
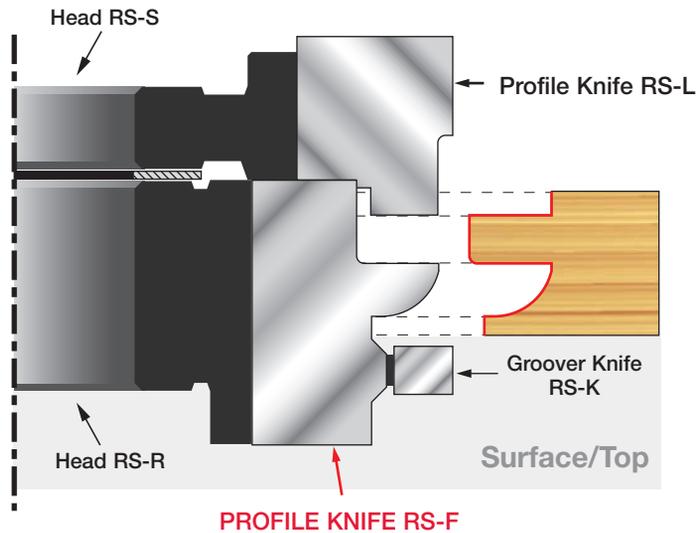
SHAPER CUTTERS



Uses: Knife RS-E, Knife RS-F, Knife RS-L, Head RS-R, and Head RS-S

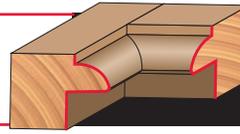


Spindle in Starting Position for Profile Cut

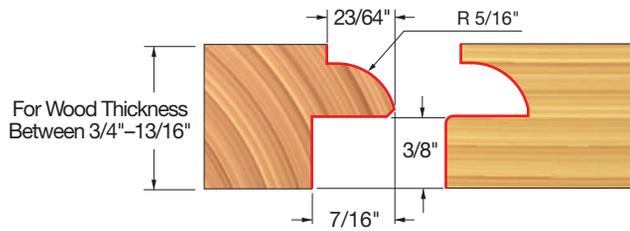


Spindle Lowered for Cope Cut

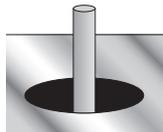
# Profile Knife RS-E Glass Panel Door Set-Up



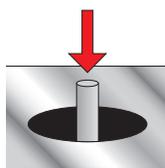
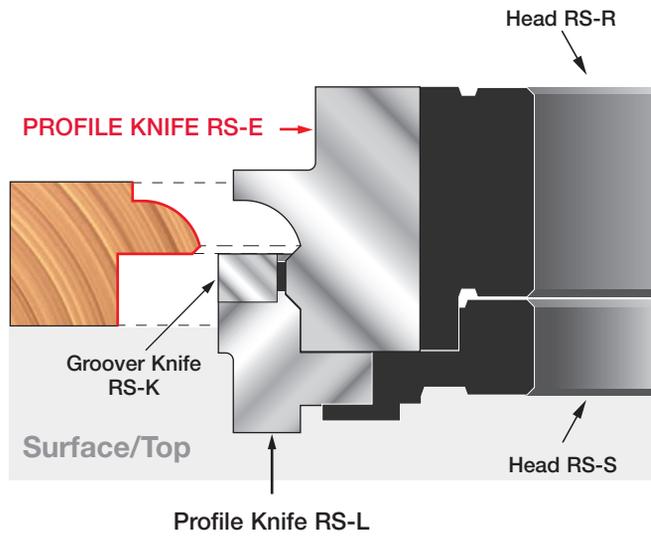
# PERFORMANCE SYSTEM<sup>®</sup> CUTTERS



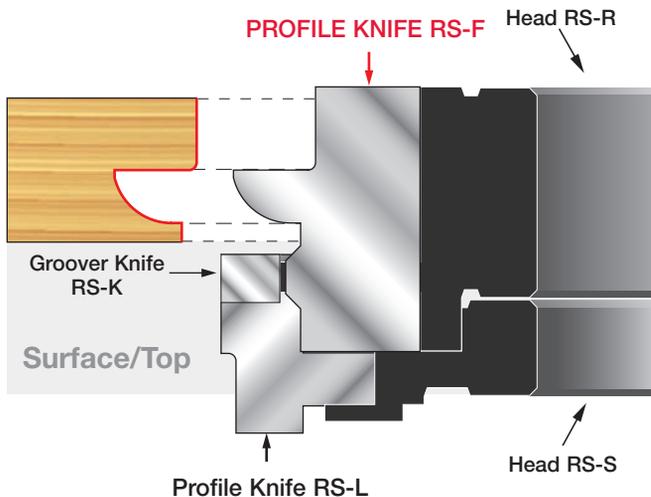
Uses: Knife RS-E, Knife RS-F, Knife RS-L, Head RS-R, and Head RS-S



Spindle in Starting Position for Profile Cut



Spindle Lowered for Cope Cut



## USE IN



Shaper Machine

## APPLICATION

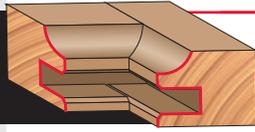
Allows for the insertion and removal of a glass panel on a rabbeted groove. Use a small molding to hold glass in place. No shimming should be needed.

## MATERIALS



SHAPER CUTTERS

# PERFORMANCE SYSTEM® CUTTERS



## Profile Knife RS-F Raised Panel Door Set-Up

### USE IN



Shaper Machine

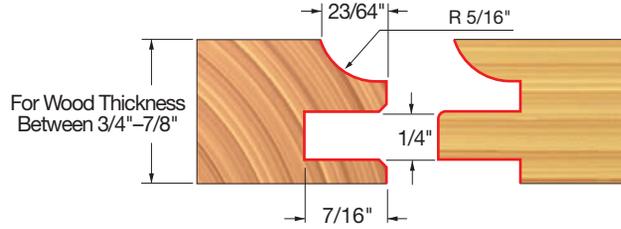
### APPLICATION

Constructing raised panel doors with eased over edges on the inside of the panel groove for less splintering, easier finishing, and easier insertion of panels. Shimming should be done between the cutter heads to achieve the fit required.

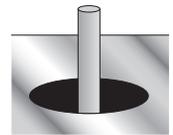
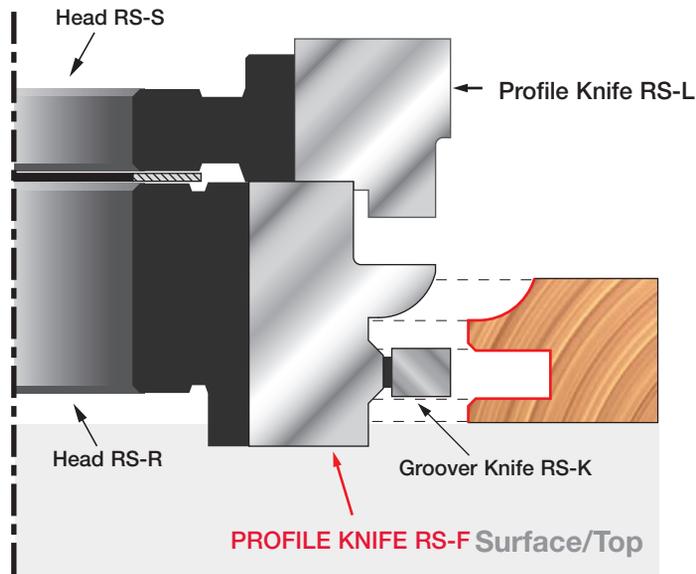
### MATERIALS



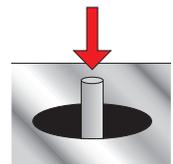
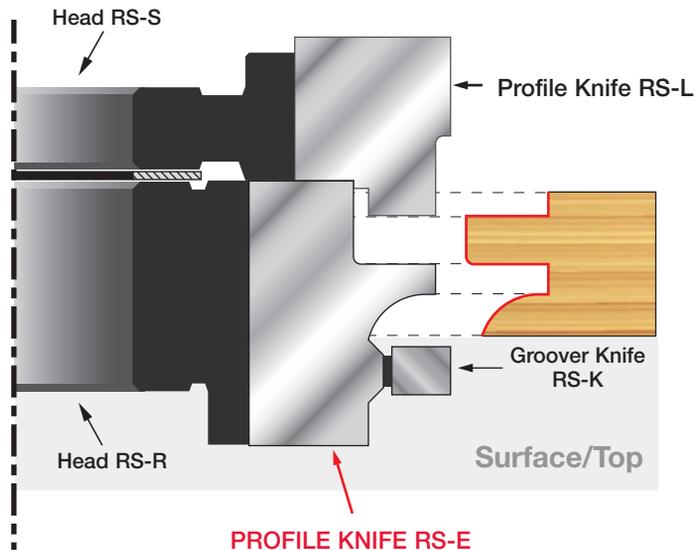
SHAPER CUTTERS



Uses: Knife RS-F, Knife RS-E, Knife RS-L, Head RS-R, and Head RS-S

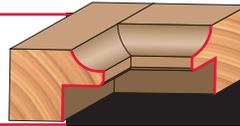


Spindle in Starting Position for Profile Cut

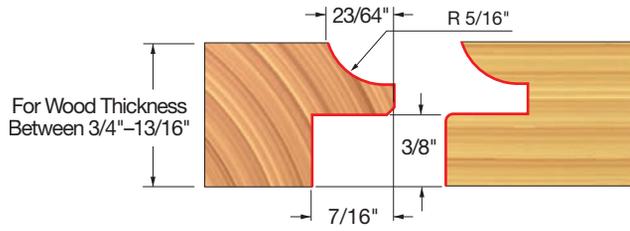


Spindle Lowered for Cope Cut

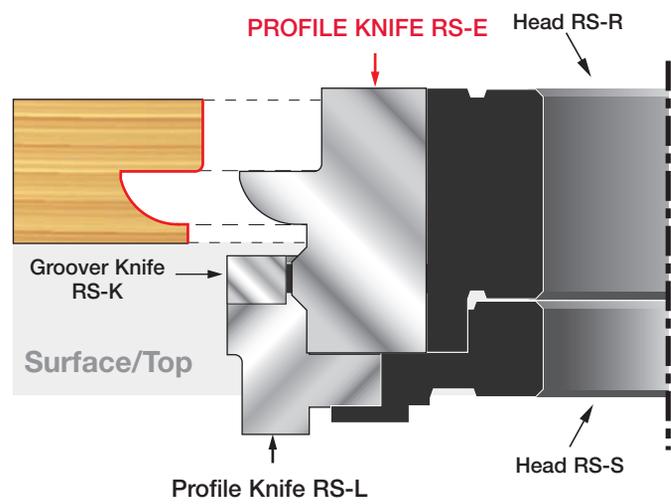
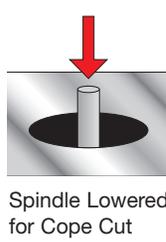
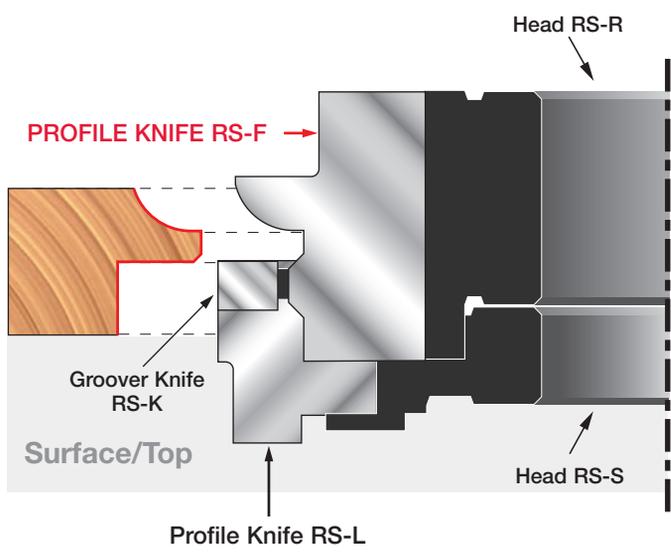
# Profile Knife RS-F Glass Panel Door Set-Up



# PERFORMANCE SYSTEM® CUTTERS



Uses: Knife RS-F, Knife RS-E, Knife RS-L, Head RS-R, and Head RS-S



## USE IN



Shaper Machine

## APPLICATION

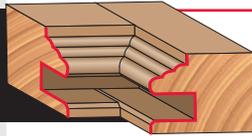
Allows for the insertion and removal of a glass panel on a rabbeted groove. Use a small molding to hold glass in place. No shimming should be needed.

## MATERIALS



SHAPER CUTTERS

# PERFORMANCE SYSTEM® CUTTERS



## Profile Knife RS-G Raised Panel Door Set-Up

### USE IN



Shaper Machine

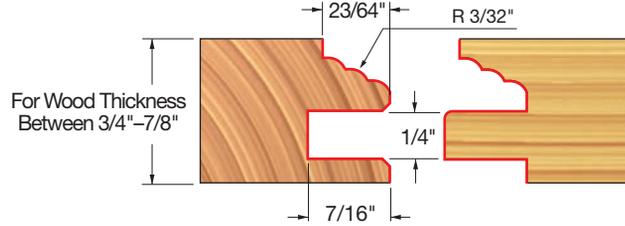
### APPLICATION

Constructing raised panel doors with eased over edges on the inside of the panel groove for less splintering, easier finishing, and easier insertion of panels. Shimming should be done between the cutter heads to achieve the fit required.

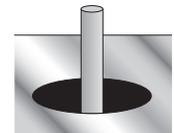
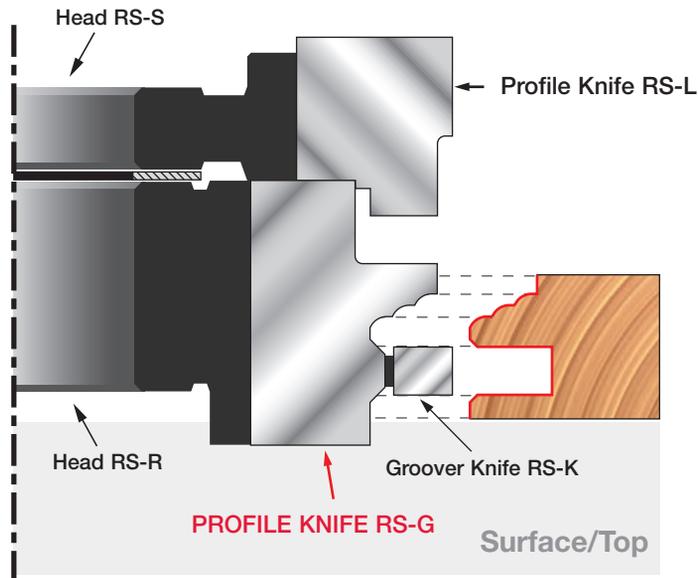
### MATERIALS



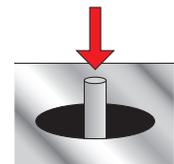
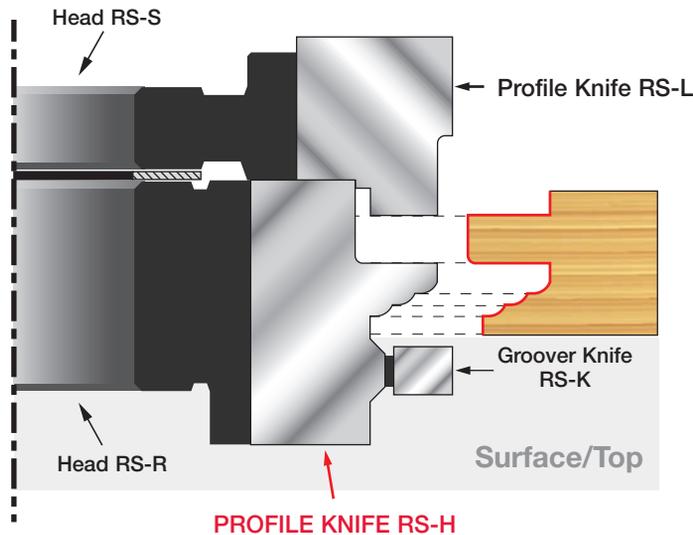
SHAPER CUTTERS



Uses: Knife RS-G, Knife RS-H, Knife RS-L, Head RS-R, and Head RS-S

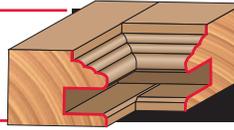


Spindle in Starting Position for Profile Cut

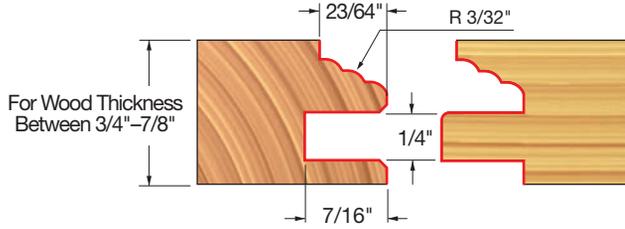


Spindle Lowered for Cope Cut

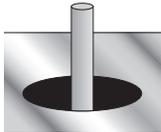
# Profile Knife RS-G Glass Panel Door Set-Up



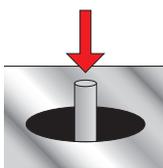
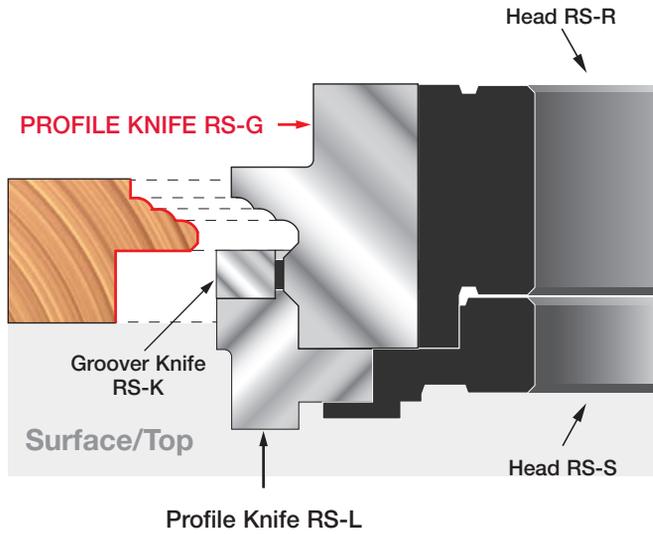
# PERFORMANCE SYSTEM® CUTTERS



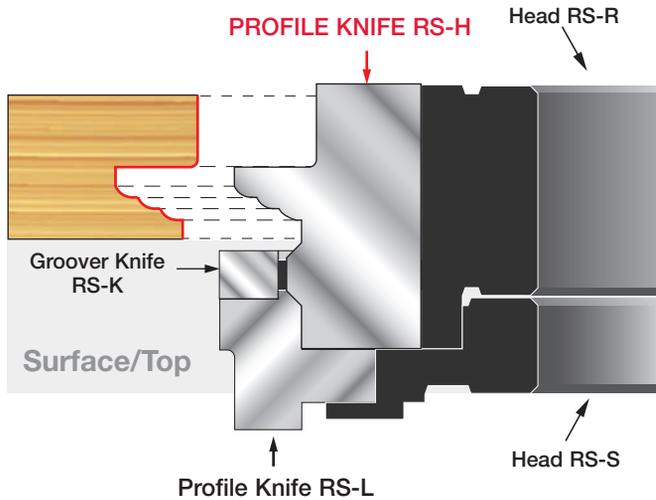
Uses: Knife RS-G, Knife RS-H, Knife RS-L, Head RS-R, and Head RS-S



Spindle in Starting Position for Profile Cut



Spindle Lowered for Cope Cut



## USE IN



Shaper Machine

## APPLICATION

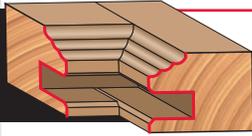
Allows for the insertion and removal of a glass panel on a rabbeted groove. Use a small molding to hold glass in place. No shimming should be needed.

## MATERIALS



SHAPER CUTTERS

# PERFORMANCE SYSTEM® CUTTERS



## Profile Knife RS-H Raised Panel Door Set-Up

### USE IN



Shaper Machine

### APPLICATION

Constructing raised panel doors with eased over edges on the inside of the panel groove for less splintering, easier finishing, and easier insertion of panels. Shimming should be done between the cutter heads to achieve the fit required.

### MATERIALS



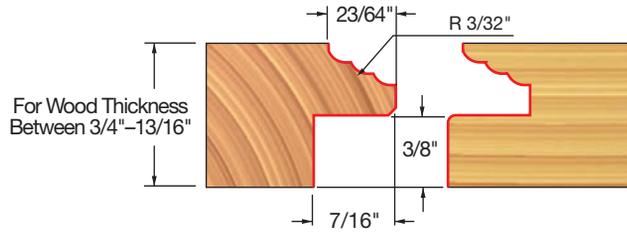
Hardwood

Softwood

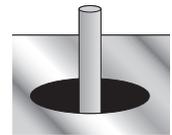
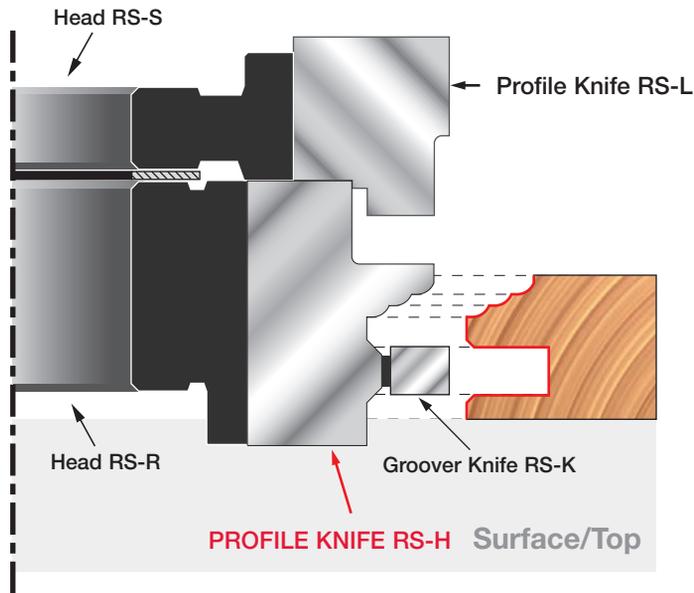
MDF

Plywood

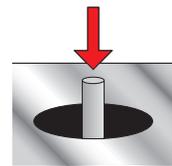
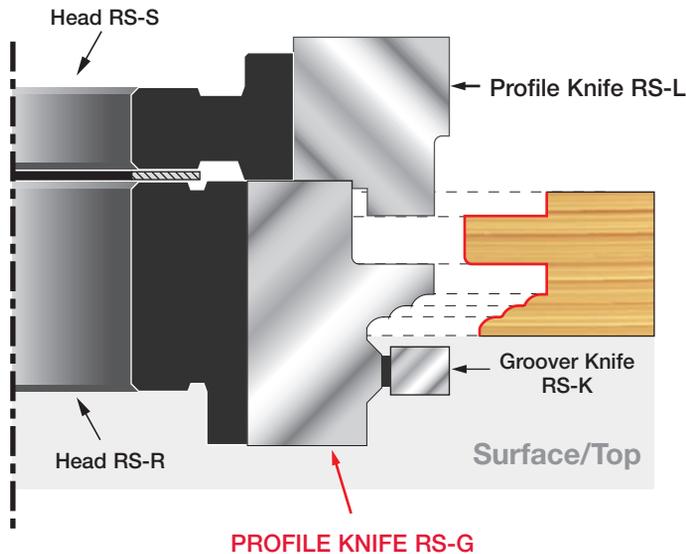
SHAPER CUTTERS



Uses: Knife RS-H, Knife RS-G, Knife RS-L, Head RS-R, and Head RS-S

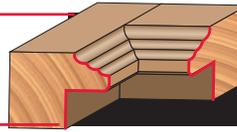


Spindle in Starting Position for Profile Cut

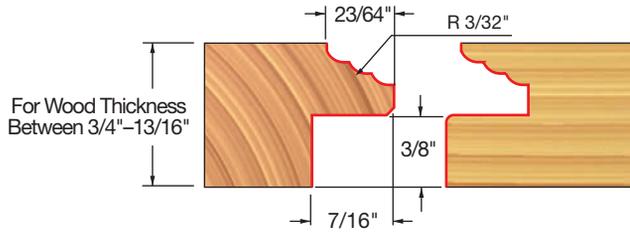


Spindle Lowered for Cope Cut

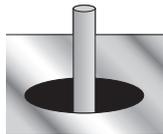
# Profile Knife RS-H Glass Panel Door Set-Up



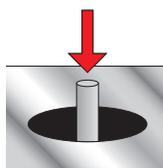
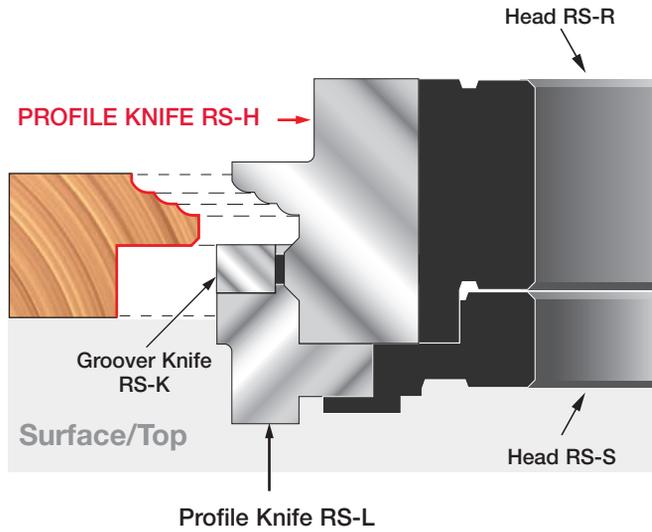
# PERFORMANCE SYSTEM® CUTTERS



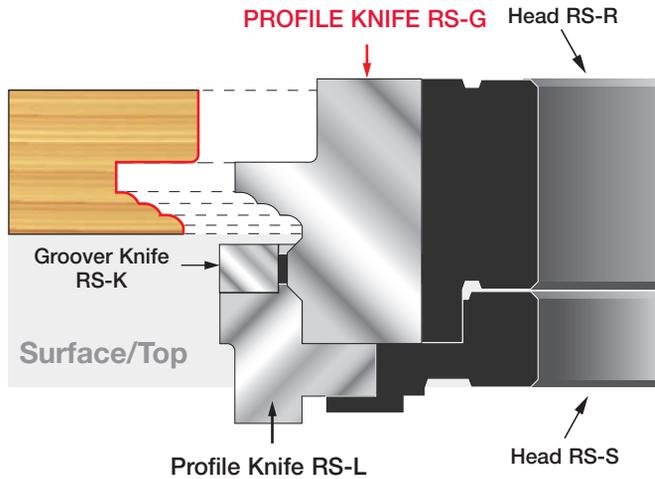
Uses: Knife RS-H, Knife RS-G, Knife RS-L, Head RS-R, and Head RS-S



Spindle in Starting Position for Profile Cut



Spindle Lowered for Cope Cut



## USE IN



Shaper Machine

## APPLICATION

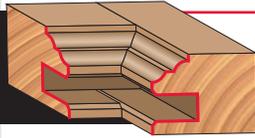
Allows for the insertion and removal of a glass panel on a rabbeted groove. Use a small molding to hold glass in place. No shimming should be needed.

## MATERIALS



SHAPER CUTTERS

# PERFORMANCE SYSTEM® CUTTERS



## Profile Knife RS-I Raised Panel Door Set-Up

### USE IN



Shaper Machine

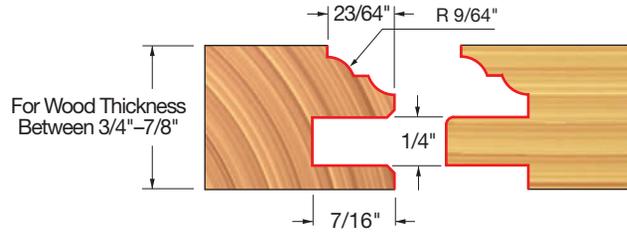
### APPLICATION

Constructing raised panel doors with eased over edges on the inside of the panel groove for less splintering, easier finishing, and easier insertion of panels. Shimming should be done between the cutter heads to achieve the fit required.

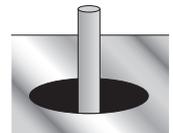
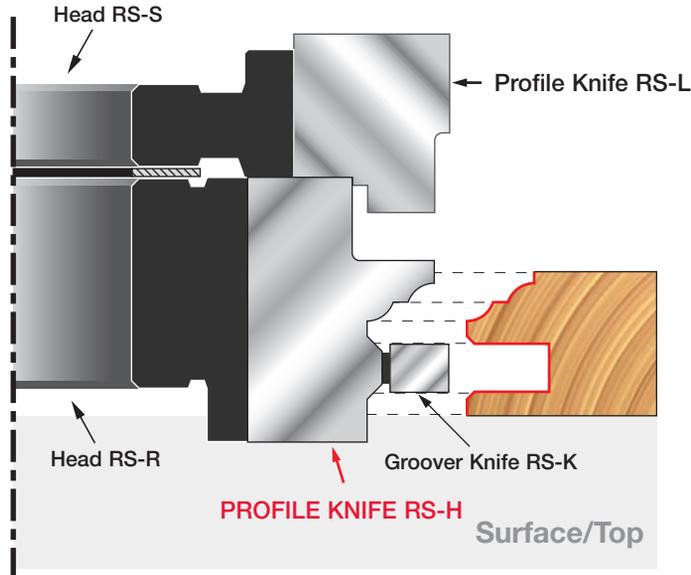
### MATERIALS



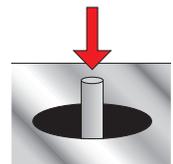
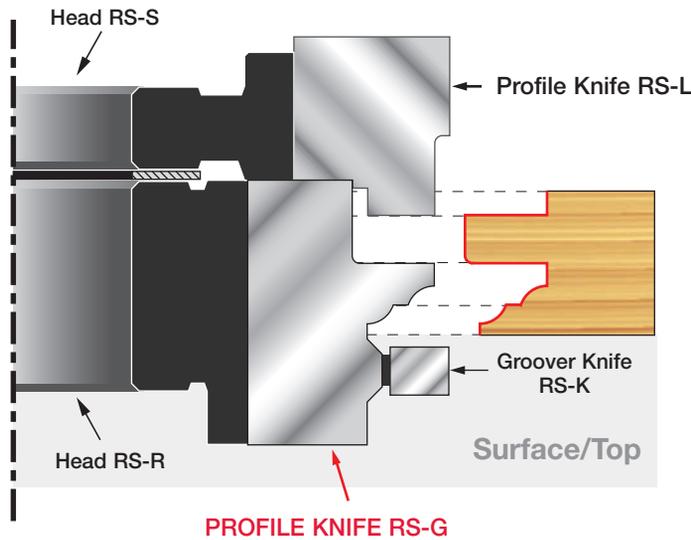
SHAPER CUTTERS



Uses: Knife RS-I, Knife RS-L, Head RS-R, and Head RS-S

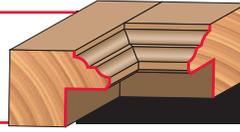


Spindle in Starting Position for Profile Cut

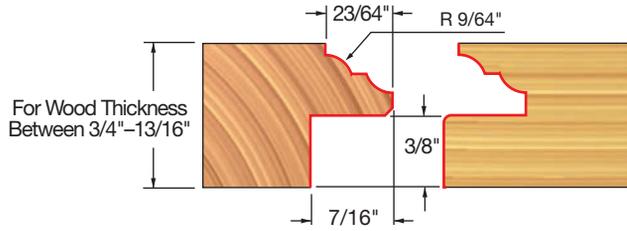


Spindle Lowered for Cope Cut

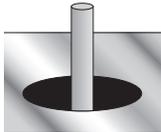
# Profile Knife RS-I Glass Panel Door Set-Up



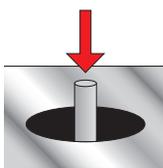
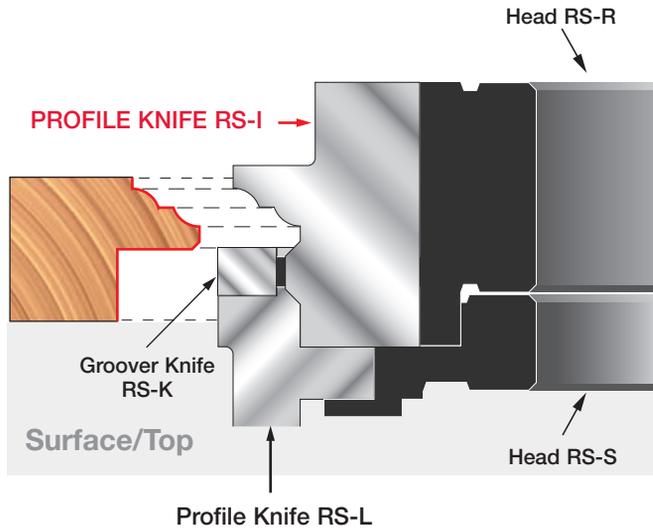
# PERFORMANCE SYSTEM® CUTTERS



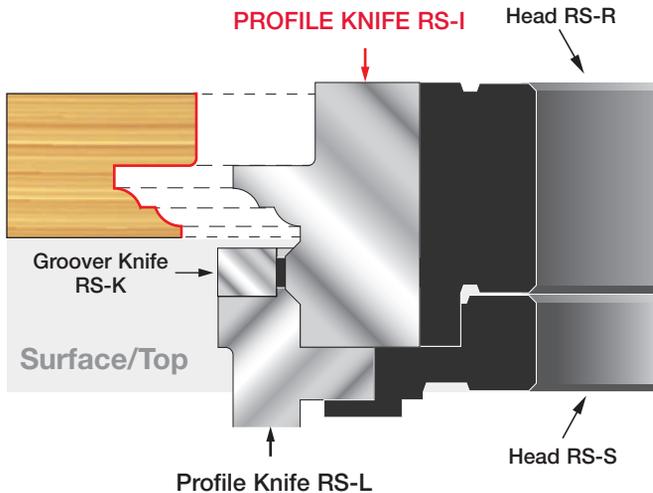
Uses: Knife RS-I, Knife RS-L, Head RS-R, and Head RS-S



Spindle in Starting Position for Profile Cut



Spindle Lowered for Cope Cut



## USE IN



Shaper Machine

## APPLICATION

Allows for the insertion and removal of a glass panel on a rabbeted groove. Use a small molding to hold glass in place. No shimming should be needed.

## MATERIALS



SHAPER CUTTERS

# PERFORMANCE SYSTEM® CUTTERS

## USE IN



Shaper Machine

## APPLICATION

To be used with cutterhead DE-1000 to provide a smooth edge treatment on cabinet doors. Profile allows opening of cabinet doors and drawers without pulls.

Profile knives can be purchased separately.

## MATERIALS



Hardwood



Softwood



MDF



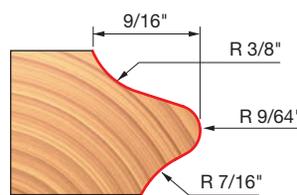
Plywood

## One Piece Door Edge Profile Cutters

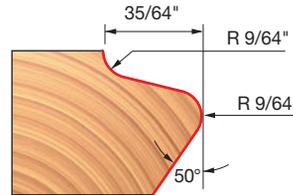
ITEM NUMBER	OVERALL DIA.	CARBIDE HEIGHT	BORE DIAMETER
DE-1000	3-63/64"	1-37/64"	1-1/4"



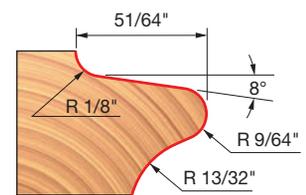
Cutterhead DE-1000



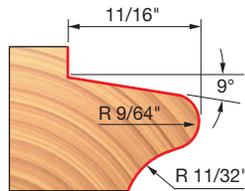
**PROFILE KNIFE DE-A**  
HEAD DE-1000



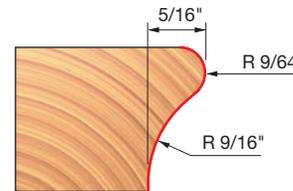
**PROFILE KNIFE DE-B**  
HEAD DE-1000



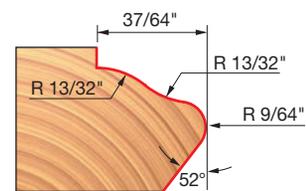
**PROFILE KNIFE DE-C**  
HEAD DE-1000



**PROFILE KNIFE DE-D**  
HEAD DE-1000



**PROFILE KNIFE DE-E**  
HEAD DE-1000



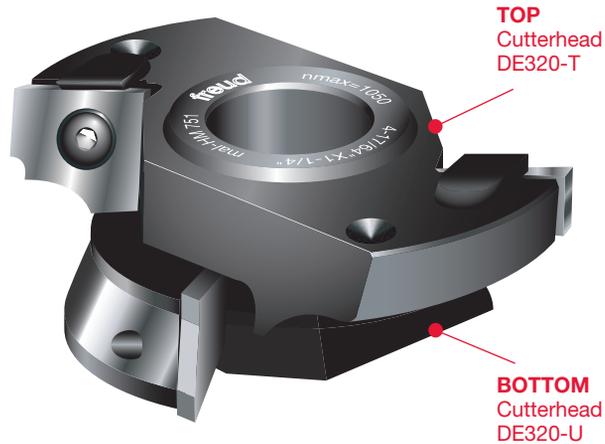
**PROFILE KNIFE DE-F**  
HEAD DE-1000

SHAPER CUTTERS

## Two Piece 32mm Door Edge Profile Cutters

## PERFORMANCE SYSTEM® CUTTERS

ITEM NUMBER	OVERALL DIA.	CARBIDE HEIGHT	BORE DIAMETER
DE320-T	4-17/64"	63/64"	1-1/4"
DE320-U	3-1/2"	25/32"	1-1/4"



### USE IN



Shaper Machine

### APPLICATION

Cut a wide variety of door edge profiles particularly suited for cabinets using the 32mm system. The heads can be used alone or in combination with each other. Profile allows opening of cabinet doors and drawers without pulls.

Profile knives can be purchased separately.

### MATERIALS



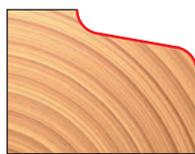
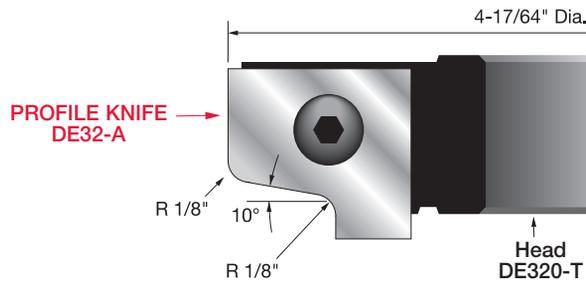
Hardwood

Softwood

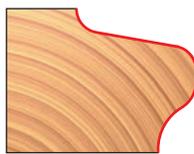
MDF

Plywood

### TOP PROFILE CUTTER KNIVES FOR CUTTERHEAD DE320-T

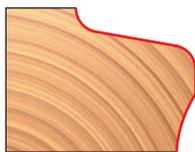


**TOP:** Profile Knife DE32-A  
Head DE320-T



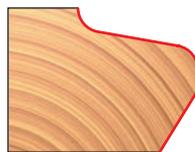
**TOP:** Profile Knife DE32-A  
Head DE320-T

**BOTTOM:** Profile Knife DE32-J  
Head DE320-U



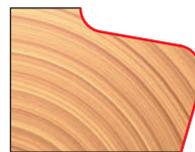
**TOP:** Profile Knife DE32-A  
Head DE320-T

**BOTTOM:** Profile Knife DE32-K  
Head DE320-U



**TOP:** Profile Knife DE32-A  
Head DE320-T

**BOTTOM:** Profile Knife DE32-L  
Head DE320-U



**TOP:** Profile Knife DE32-A  
Head DE320-T

**BOTTOM:** Profile Knife DE32-M  
Head DE320-U

# PERFORMANCE SYSTEM® CUTTERS

## USE IN



Shaper Machine

## APPLICATION

Cut a wide variety of door edge profiles particularly suited for cabinets using the 32mm system. The heads can be used alone or in combination with each other. Profile allows opening of cabinet doors and drawers without pulls.

Profile knives can be purchased separately.

## MATERIALS



Hardwood

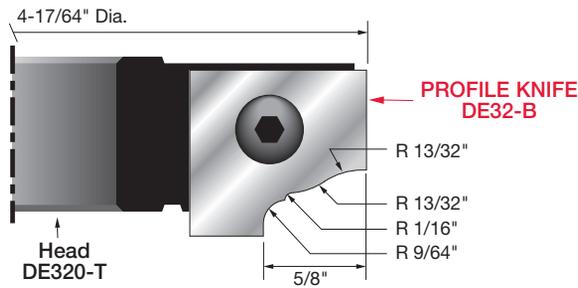
Softwood

MDF

Plywood

## Two Piece 32mm Door Edge Profile Cutters

CONTINUED



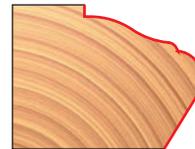
**TOP:** Profile Knife DE32-B  
Head DE320-T



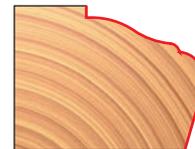
**TOP:** Profile Knife DE32-B  
Head DE320-T  
**BOTTOM:** Profile Knife DE32-J  
Head DE320-U



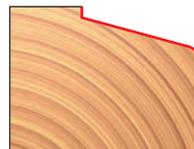
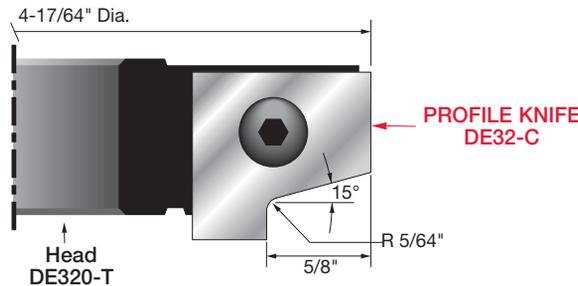
**TOP:** Profile Knife DE32-B  
Head DE320-T  
**BOTTOM:** Profile Knife DE32-K  
Head DE320-U



**TOP:** Profile Knife DE32-B  
Head DE320-T  
**BOTTOM:** Profile Knife DE32-L  
Head DE320-U



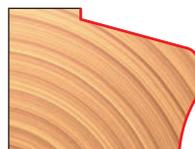
**TOP:** Profile Knife DE32-B  
Head DE320-T  
**BOTTOM:** Profile Knife DE32-M  
Head DE320-U



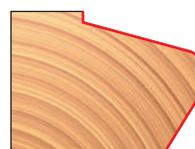
**TOP:** Profile Knife DE32-C  
Head DE320-T



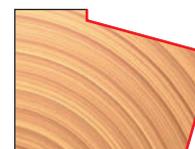
**TOP:** Profile Knife DE32-C  
Head DE320-T  
**BOTTOM:** Profile Knife DE32-J  
Head DE320-U



**TOP:** Profile Knife DE32-C  
Head DE320-T  
**BOTTOM:** Profile Knife DE32-K  
Head DE320-U



**TOP:** Profile Knife DE32-C  
Head DE320-T  
**BOTTOM:** Profile Knife DE32-L  
Head DE320-U



**TOP:** Profile Knife DE32-C  
Head DE320-T  
**BOTTOM:** Profile Knife DE32-M  
Head DE320-U

Black Item Numbers Indicate 3/4" Bore

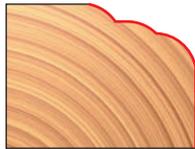
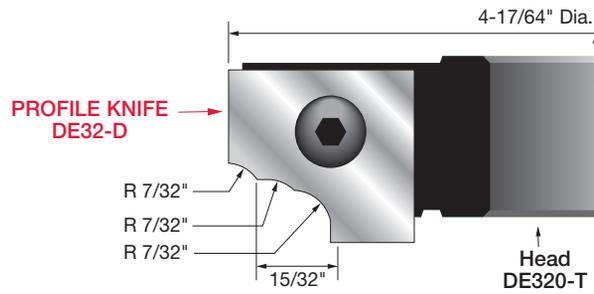
Red Item Numbers Indicate 1-1/4" Bore

All Profile Drawings 1:1 Scale

## Two Piece 32mm Door Edge Profile Cutters

## PERFORMANCE SYSTEM® CUTTERS

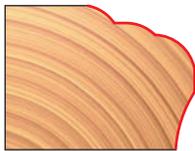
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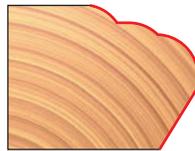
**TOP:** Profile Knife DE32-D  
Head DE320-T



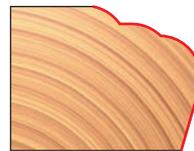
**TOP:** Profile Knife DE32-D  
Head DE320-T  
**BOTTOM:** Profile Knife DE32-J  
Head DE320-U



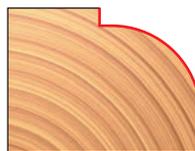
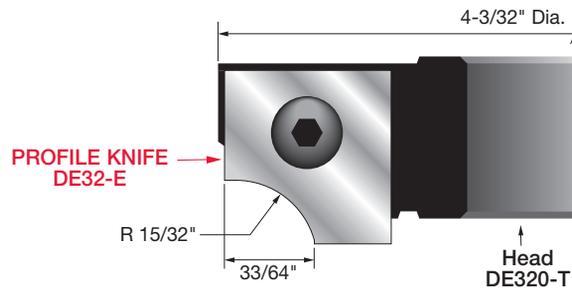
**TOP:** Profile Knife DE32-D  
Head DE320-T  
**BOTTOM:** Profile Knife DE32-K  
Head DE320-U



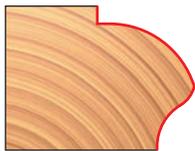
**TOP:** Profile Knife DE32-D  
Head DE320-T  
**BOTTOM:** Profile Knife DE32-L  
Head DE320-U



**TOP:** Profile Knife DE32-D  
Head DE320-T  
**BOTTOM:** Profile Knife DE32-M  
Head DE320-U



**TOP:** Profile Knife DE32-D  
Head DE320-T



**TOP:** Profile Knife DE32-D  
Head DE320-T  
**BOTTOM:** Profile Knife DE32-J  
Head DE320-U



**TOP:** Profile Knife DE32-D  
Head DE320-T  
**BOTTOM:** Profile Knife DE32-K  
Head DE320-U



**TOP:** Profile Knife DE32-D  
Head DE320-T  
**BOTTOM:** Profile Knife DE32-L  
Head DE320-U



**TOP:** Profile Knife DE32-D  
Head DE320-T  
**BOTTOM:** Profile Knife DE32-M  
Head DE320-U

### USE IN



Shaper Machine

### APPLICATION

Cut a wide variety of door edge profiles particularly suited for cabinets using the 32mm system. The heads can be used alone or in combination with each other. Profile allows opening of cabinet doors and drawers without pulls.

Profile knives can be purchased separately.

### MATERIALS



Hardwood

Softwood

MDF

Plywood

SHAPER CUTTERS

# PERFORMANCE SYSTEM® CUTTERS

## USE IN



Shaper Machine

## APPLICATION

Cut a wide variety of door edge profiles particularly suited for cabinets using the 32mm system. The heads can be used alone or in combination with each other. Profile allows opening of cabinet doors and drawers without pulls.

Profile knives can be purchased separately.

## MATERIALS



Hardwood

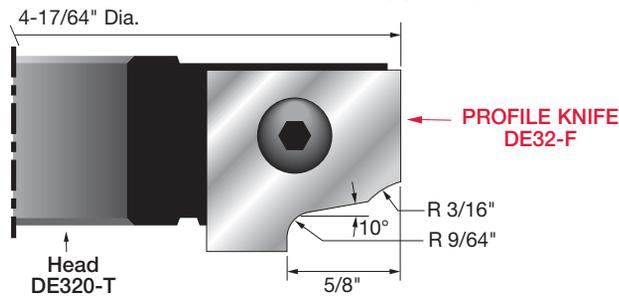
Softwood

MDF

Plywood

## Two Piece 32mm Door Edge Profile Cutters

CONTINUED



**TOP:** Profile Knife DE32-F  
Head DE320-T

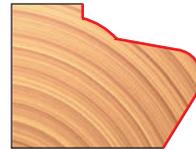


**TOP:** Profile Knife DE32-F  
Head DE320-T

**BOTTOM:** Profile Knife DE32-J  
Head DE320-U

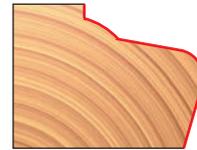


**TOP:** Profile Knife DE32-F  
Head DE320-T



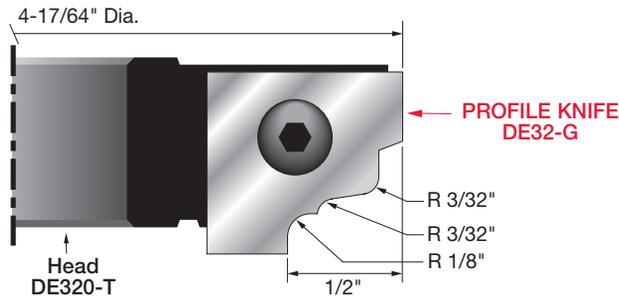
**TOP:** Profile Knife DE32-F  
Head DE320-T

**BOTTOM:** Profile Knife DE32-L  
Head DE320-U



**TOP:** Profile Knife DE32-F  
Head DE320-T

**BOTTOM:** Profile Knife DE32-M  
Head DE320-U



**TOP:** Profile Knife DE32-G  
Head DE320-T



**TOP:** Profile Knife DE32-G  
Head DE320-T

**BOTTOM:** Profile Knife DE32-J  
Head DE320-U



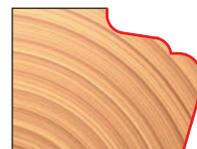
**TOP:** Profile Knife DE32-G  
Head DE320-T

**BOTTOM:** Profile Knife DE32-K  
Head DE320-U



**TOP:** Profile Knife DE32-G  
Head DE320-T

**BOTTOM:** Profile Knife DE32-L  
Head DE320-U



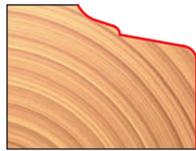
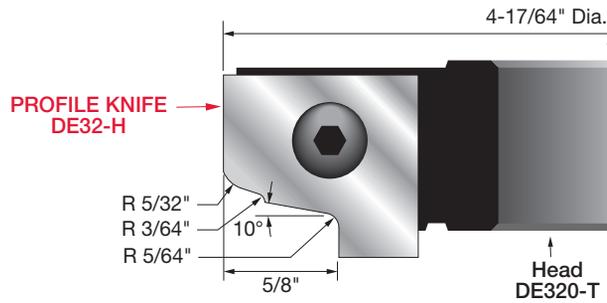
**TOP:** Profile Knife DE32-G  
Head DE320-T

**BOTTOM:** Profile Knife DE32-M  
Head DE320-U

## Two Piece 32mm Door Edge Profile Cutters

## PERFORMANCE SYSTEM® CUTTERS

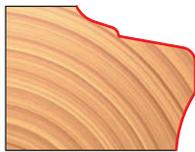
CONTINUED



**TOP:** Profile Knife DE32-H  
Head DE320-T



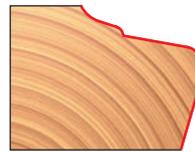
**TOP:** Profile Knife DE32-H  
Head DE320-T  
**BOTTOM:** Profile Knife DE32-J  
Head DE320-U



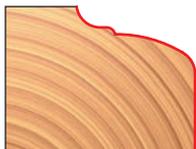
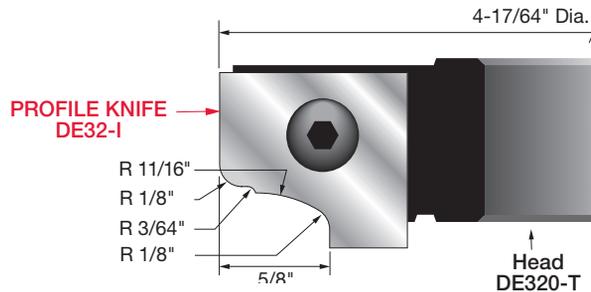
**TOP:** Profile Knife DE32-H  
Head DE320-T  
**BOTTOM:** Profile Knife DE32-K  
Head DE320-U



**TOP:** Profile Knife DE32-H  
Head DE320-T  
**BOTTOM:** Profile Knife DE32-L  
Head DE320-U



**TOP:** Profile Knife DE32-H  
Head DE320-T  
**BOTTOM:** Profile Knife DE32-M  
Head DE320-U



**TOP:** Profile Knife DE32-I  
Head DE320-T



**TOP:** Profile Knife DE32-I  
Head DE320-T  
**BOTTOM:** Profile Knife DE32-J  
Head DE320-U



**TOP:** Profile Knife DE32-I  
Head DE320-T  
**BOTTOM:** Profile Knife DE32-K  
Head DE320-U



**TOP:** Profile Knife DE32-I  
Head DE320-T  
**BOTTOM:** Profile Knife DE32-L  
Head DE320-U



**TOP:** Profile Knife DE32-I  
Head DE320-T  
**BOTTOM:** Profile Knife DE32-M  
Head DE320-U

### USE IN



Shaper Machine

### APPLICATION

Cut a wide variety of door edge profiles particularly suited for cabinets using the 32mm system. The heads can be used alone or in combination with each other. Profile allows opening of cabinet doors and drawers without pulls.

Profile knives can be purchased separately.

### MATERIALS



Hardwood

Softwood

MDF

Plywood

SHAPER CUTTERS

# PERFORMANCE SYSTEM® CUTTERS

## USE IN



Shaper Machine

## HOW TO SELECT THE PROPER BOTTOM PROFILE

The bottom edge profiles are designed to work with today's European concealed boss hinges used in 32mm style cabinets. These profiles provide the maximum aesthetic look while maintaining door integrity. From the illustration below, if T is 3mm or more, then bottom profile knives DE32-K and DE32-M can be used (typical with standard hinges). If T is 6mm or more, then bottom profile knives DE32-J and DE32-L can be used.

## MATERIALS

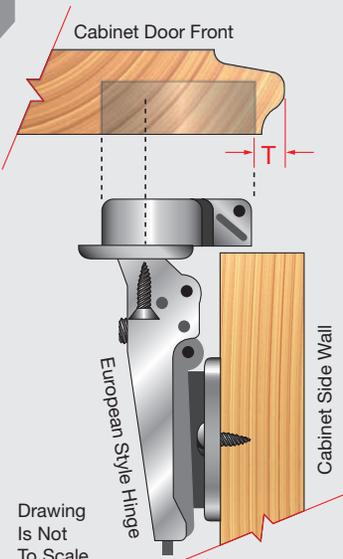


Hardwood

Softwood

MDF

Plywood

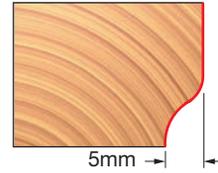
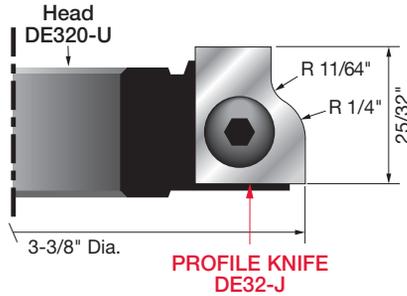


Drawing Is Not To Scale

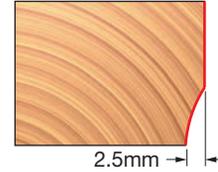
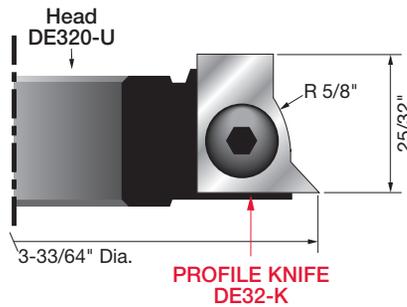
# Two Piece 32mm Door Edge Profile Cutters

CONTINUED

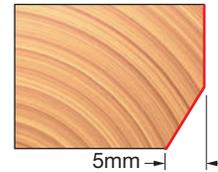
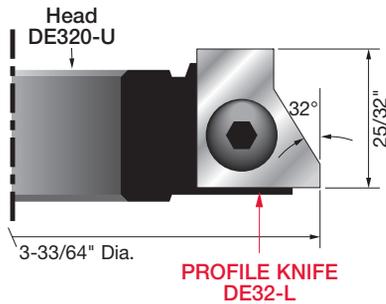
## BOTTOM PROFILE CUTTER KNIVES FOR CUTTERHEAD DE320-U



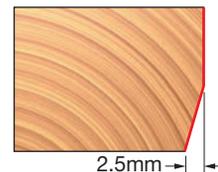
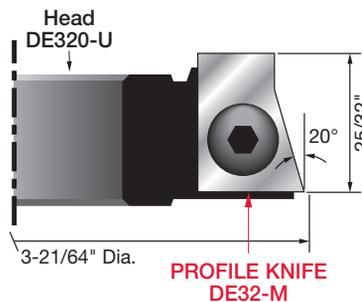
Profile Knife DE32-J Head DE320-U



Profile Knife DE32-K Head DE320-U

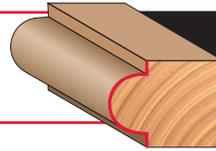


Profile Knife DE32-L Head DE320-U



Profile Knife DE32-M Head DE320-U

# Concave Radius Knives & Head



## PERFORMANCE SYSTEM® CUTTERS

### Concave Radius Head

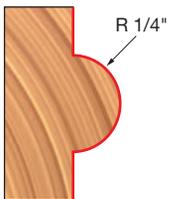
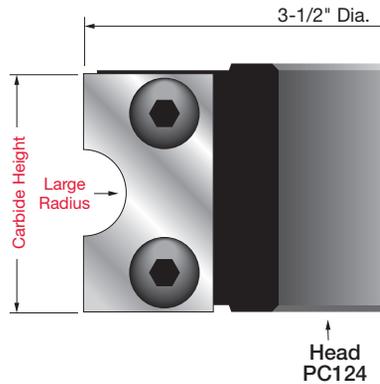
ITEM NUMBER	PART DESCRIPTION	NUMBER OF KNIVES REQUIRED	BORE DIAMETER
PC124	3-1/2"	2	1-1/4"

Knives sold separately

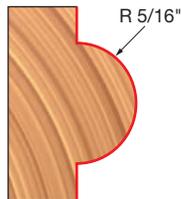
### Concave Radius Knives

ITEM NUMBER	CARBIDE HEIGHT	LARGE RADIUS	HEAD REQUIRED
K122	1-3/8"	1/4"	PC124
K123	1-3/8"	5/16"	PC124
K124	1-3/8"	3/8"	PC124
K125	1-3/8"	7/16"	PC124

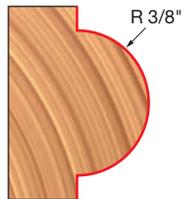
Cutterhead sold separately



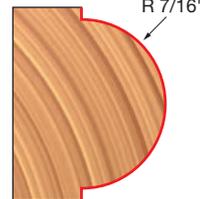
Profile Knife K122  
Head PC124



Profile Knife K123  
Head PC124



Profile Knife K124  
Head PC124



Profile Knife K125  
Head PC124

### USE IN



Shaper Machine

### APPLICATION

These resharpenable carbide knives are designed to cut a bead, or round the end of a board. The cutterhead is computer balanced and is sold separately from the knives.

### MATERIALS



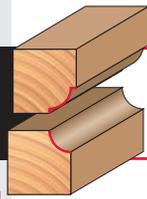
Hardwood

Softwood

MDF

Plywood

SHAPER CUTTERS



## Combination Quarter Round Convex & Concave Radius Knives & Head

### USE IN



Shaper Machine

### APPLICATION

These resharpenable carbide knives are designed to cut the same radius either concave or convex. The cutterhead is computer balanced and is sold separately from the knives.

### MATERIALS



### Combination Quarter Round Convex & Concave Radius Head

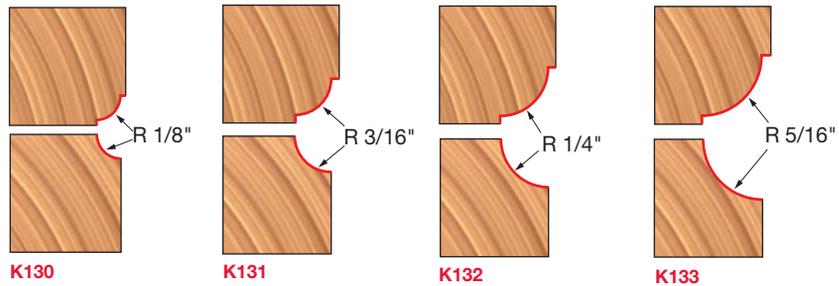
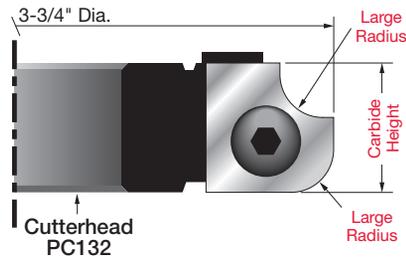
ITEM NUMBER	PART DESCRIPTION	NUMBER OF KNIFES REQUIRED	BORE DIAMETER
PC132	3-3/4"	2	1-1/4"

Knives sold separately

### Combination Quarter Round Convex & Concave Radius Knives

ITEM NUMBER	CARBIDE HEIGHT	LARGE RADIUS	HEAD REQUIRED
K130	3/4"	1/8"	PC132
K131	3/4"	3/16"	PC132
K132	3/4"	1/4"	PC132
K133	3/4"	5/16"	PC132

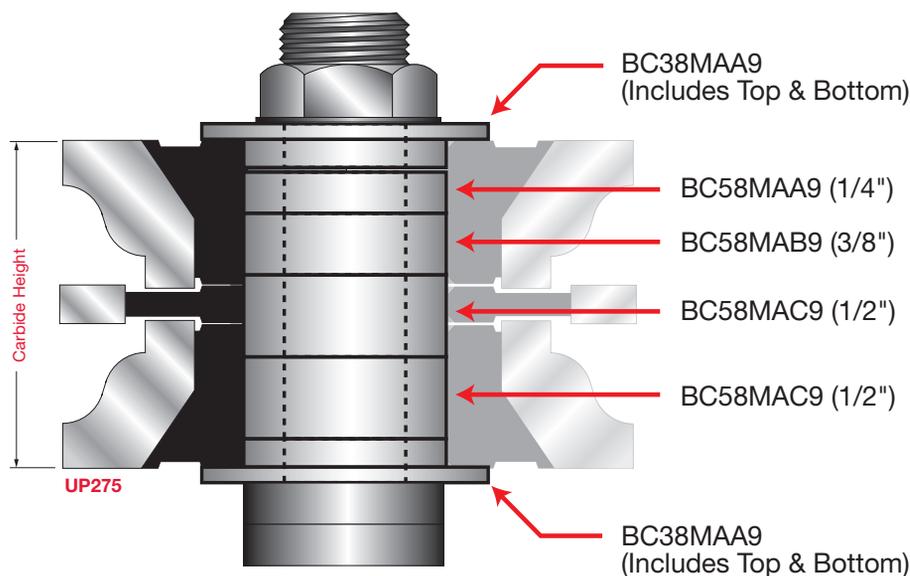
Cutterhead sold separately



## Bushing Selection

# PARTS & ACCESSORIES

### EXAMPLE OF BUSHING UP275 TO 3/4" SPINDLE



The carbide height of the UP275 is 2-3/64". After subtracting the height of the BC38MAA9 flange bushings, the maximum center bushing height is obtained:  
 $2\text{-}3/64" - 11/64" - 11/64" = 1\text{-}45/64"$

By choosing one BC58MAA9, one BC58MAB9 and two BC58MAC9 center bushings the total center bushing height is:  $1/4" + 3/8" + 1/2" + 1/2" = 15/8"$

This will leave a space of only 1/16" and allow the cutters to be securely tightened on the spindle.

### USE IN



Shaper Machine

### APPLICATION

Freud Shaper Cutters can be fitted with bushings to allow the use of 1-1/4" bore cutters on spindles as small as 3/4". Single cutters require the use of a pair of flange bushings in the appropriate bore in order to lock the cutter onto the spindle. Multiple cutter stacks such as stile and rail cutter sets require flange bushings as well as center cutter bushings.

### TO DETERMINE WHICH BUSHINGS ARE REQUIRED

1. Determine the total thickness of the stacked cutter hubs, which is often equal to carbide height
2. Subtract the height of both flange bushings. The result is the maximum total height of center bushings required
3. Select bushing sizes that equal most nearly to this amount

### MATERIALS



The Performance System® Stile and Rail cutter sets and Raised Panel cutter sets include center cutter bushings for 3/4" spindles and Freud 3/4" bore cutters include all necessary bushings for use on 1/2" spindles.



## PARTS & ACCESSORIES

### USE IN



Shaper Machine

### APPLICATION

Manufactured to the highest precision to ensure a cut equal to that of the cutter without the bushing. Be sure to clean the cutter, bushing, and spindle prior to assembly.

### MATERIALS

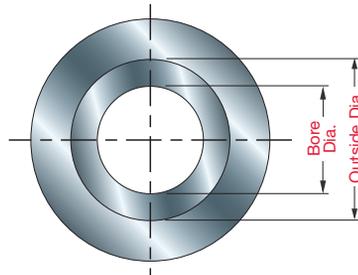


Hardwood Softwood

MDF Plywood

## Flange Bushings

ITEM NUMBER	OUTSIDE DIA.	HEIGHT	BORE DIA.
BC30MAA9	1-1/4"	11/64"	30mm
BC36MAA9	1-1/4"	13/64"	1-1/8"
BC37MAA9	1-1/4"	15/64"	1"
BC38MAA9	1-1/4"	11/64"	3/4"
EC000	3/4"	3/16"	1/2"



## PARTS & ACCESSORIES

### USE IN



Shaper Machine

### APPLICATION

Manufactured to the highest precision to ensure a cut equal to that of the cutter without the bushing. Be sure to clean the cutter, bushing, and spindle prior to assembly.

### MATERIALS

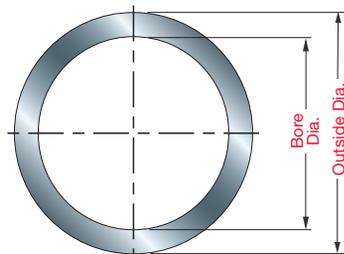


Hardwood Softwood

MDF Plywood

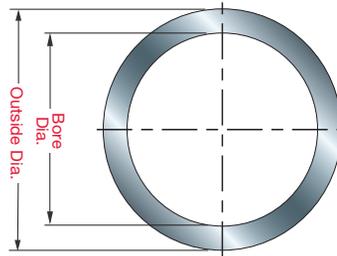
## Center Cutter Bushings

ITEM NUMBER	OUTSIDE DIA.	HEIGHT	BORE DIA.
BC56MAA9	1-1/4"	1/4"	1-1/8"
BC56MAB9	1-1/4"	3/8"	1-1/8"
BC56MAC9	1-1/4"	1/2"	1-1/8"
BC57MAA9	1-1/4"	1/4"	1"
BC57MAB9	1-1/4"	3/8"	1"
BC57MAC9	1-1/4"	1/2"	1"
BC58MAA9	1-1/4"	1/4"	3/4"
BC58MAB9	1-1/4"	3/8"	3/4"
BC58MAC9	1-1/4"	1/2"	3/4"



## Cassette 65 Bushings

ITEM NUMBER	OUTSIDE DIA.	HEIGHT	NUMBER OF PIECES	BORE DIA.
BS71MAB9	1-1/4"	15/64", 9/32", & 3/8"	3	1"
BS71MBA9	3/4"	15/64", 9/32", & 3/8"	3	5/8"
BS71MBB9	3/4"	15/64", 9/32", & 3/8"	3	1/2"
BS71M030	1-1/4"	15/64", 9/32", & 3/8"	3	30mm



## PARTS & ACCESSORIES

### USE IN



Shaper Machine

### APPLICATION

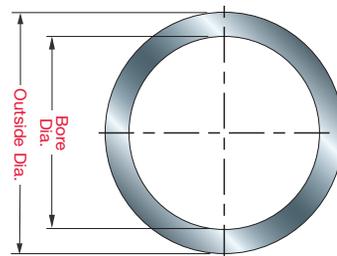
To be used with the Cassette 65 Cutter Set. Be sure to clean the cutter, bushing, and spindle prior to assembly.

### MATERIALS



## Woodworking Box Bushings

ITEM NUMBER	OUTSIDE DIA.	HEIGHT	BORE DIA.
BS30MAA9	1-1/4"	3/16" (2), 15/64", 9/32", & 11/32"	30mm
BS72MAA9	1-1/4"	3/16" (2), 15/64", 9/32", & 11/32"	1-1/8"
BS72MAB9	1-1/4"	3/16" (2), 15/64", 9/32", & 11/32"	1"
BS72MBA9	3/4"	3/16" (2), 15/64", 9/32", & 11/32"	5/8"
BS72MBB9	3/4"	3/16" (2), 15/64", 9/32", & 11/32"	1/2"



## PARTS & ACCESSORIES

### USE IN



Shaper Machine

### APPLICATION

To be used with the Woodworking Box Cutter Set. Be sure to clean the cutter, bushing, and spindle prior to assembling.

### MATERIALS



# PARTS & ACCESSORIES

## USE IN



Shaper Machine

## APPLICATION

To adjust a cut for a precise fit, Freud's Precision Shim Set is a quick and easy solution. These shims allow adjustment of your cutter spacing by as little as .004" (1/250") up to .370".

## MATERIALS



Hardwood



Softwood



MDF

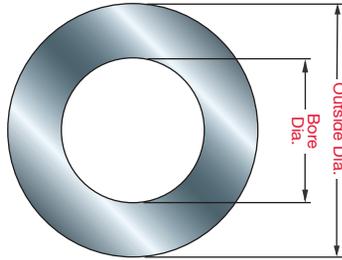


Plywood

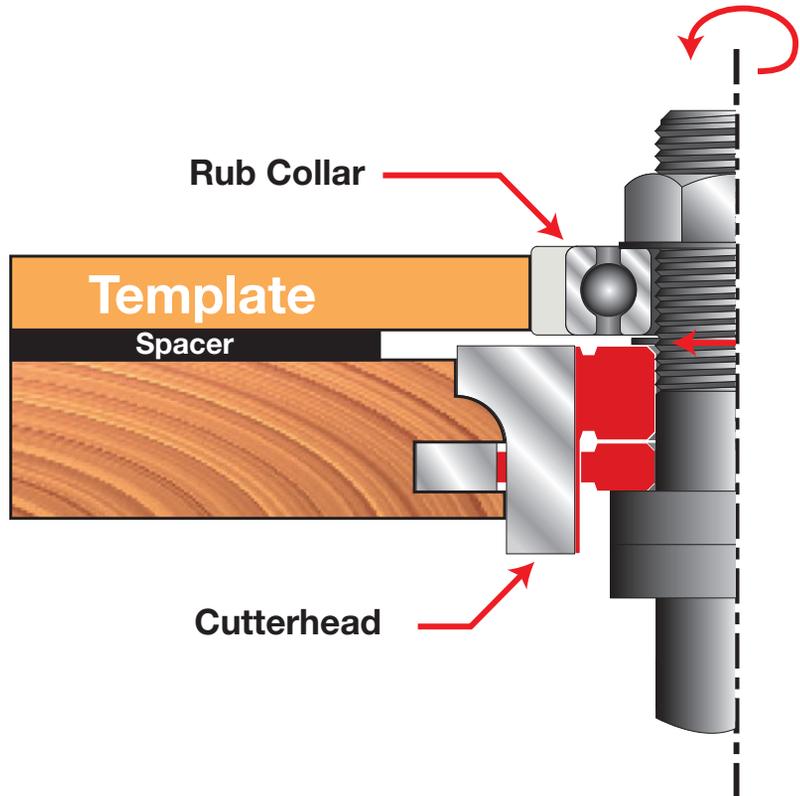
SHAPER CUTTERS

## Precision Shim Sets

ITEM NUMBER	BORE DIA.	OUTSIDE DIA.	NUMBER OF EACH THICKNESS						
			.004	.008	.012	.020	.040	.142	.370
AN73MEA9	1-1/4"	1-7/8"	1	1	1	1	1	1	1
AN73MFA9	3/4"	1-5/16"	1	1	1	1	1	1	1



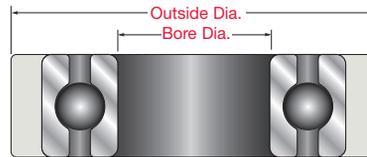
## RUB COLLAR SETUP & SELECTION CHART



## Ball Bearing Rub Collars

ITEM NUMBER	OUTSIDE DIA.	BORE DIA.
RC-001	48mm	3/4"
RC-002	1-3/4"	3/4"
RC-003	72mm	3/4"
RC101	2-1/4"	1-1/4"
RC102	2-1/4"	1-1/8"
RC201	2-1/2"	1-1/4"
RC202	2-1/2"	1-1/8"

ITEM NUMBER	OUTSIDE DIA.	BORE DIA.
RC205	2-1/2"	1/2"
RC301	2-3/4"	1-1/4"
RC401	3"	1-1/4"
RC501	3-1/2"	1-1/4"
RC601	3-1/4"	3/4"
RC701	4-9/16"	1-1/4"



### BALL BEARING RUB COLLARS REFERENCE CHART

ITEM NO.	RUB COLLAR NO.						
EC091	RC-001	UC210	RC-002	UP201	RC10#	UP260	RC30#
EC140	RC-003	UC211	RC-002	UP202	RC10#	UP261	RC30#
EC141	RC-003	UC212	RC-002	UP203	RC10#	UP262	RC30#
EC142	RC-003	UC213	RC-002	UP204	RC10#	UP263	RC30#
EC143	RC-003	UC215	RC-002	UP205	RC10#	UP264	RC30#
EC144	RC-003	UC221	RC-002	UP206	RC10#	UP265	RC30#
EC146	RC-003	UC223	RC-002	UP207	RC10#	UP266	RC30#
EC260	RC-001	UP016	RC10#	UP208	RC10#	UP267	RC30#
EC266	RC-001	UP140	RC50#	UP209	RC10#	UP268	RC30#
EC270	RC-001	UP141	RC50#	UP210	RC10#	UP269	RC20#
EC274	RC-001	UP142	RC50#	UP211	RC10#	UP270	RC20#
RP1000	RC10#	UP143	RC50#	UP212	RC10#	UP272	RC20#
RP2000	RC10#	UP144	RC50#	UP213	RC10#	UP273	RC20#
RS1000	RSC-#	UP145	RC50#	UP214	RC10#	UP274	RC20#
RS2000	RSC-#	UP146	RC50#	UP215	RC10#	UP275	RC20#
UC200	RC-002	UP147	RC50#	UP216	RC10#	WB101	RC601
UC201	RC-002	UP148	RC50#	UP217	RC10#	WB102	RC701
UC202	RC-002	UP149	RC50#	UP218	RC10#		
UC203	RC-002	UP150	RC50#	UP219	RC10#		
UC204	RC-002	UP151	RC50#	UP220	RC10#		
UC207	RC-002	UP152	RC50#	UP221	RC10#		
UC208	RC-002	UP153	RC50#	UP222	RC10#		
UC209	RC-002	UP200	RC10#	UP223	RC10#		

Black Item Numbers Indicate 3/4" Bore

Red Item Numbers Indicate 1-1/4" Bore

All Profile Drawings 1:1 Scale

## PARTS & ACCESSORIES

### USE IN



Shaper Machine

### APPLICATION

Made using precision industrial ball bearings, these are ideal for doing template work or making cathedral doors

### MATERIALS



Hardwood



Softwood



MDF



Plywood

# PARTS & ACCESSORIES

## USE IN



Shaper Machine

## APPLICATION

These resharpenable carbide knives are designed to cut the same radius either concave or convex. The cutterhead is computer balanced and is sold separately from the knives.

## MATERIALS



Hardwood

Softwood

MDF

Plywood

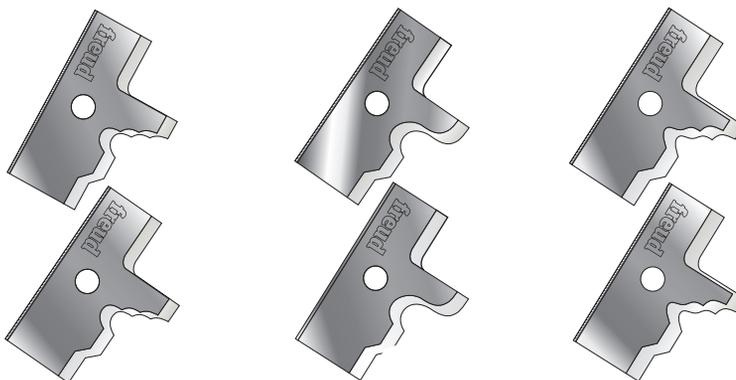
# Replacement Carbide Profile Knives for Performance System® Shaper Cutters

## RP2000 Raised Panel System Replacement Knives

ITEM NUMBER	PROFILE DESCRIPTION	PANEL THICKNESS	FOR CUTTER HEAD	PAGE NUMBER
RP-A	Bevel Profile Knife*	(5/8"Panels)	RP1000	308
RP-A34	Bevel Profile Knife**	(3/4"Panels)	RP1000	308
RP-B	Bevel Profile Knife*	(5/8"Panels)	RP1000	308
RP-B34	Bevel Profile Knife**	(3/4"Panels)	RP1000	309
RP-C	Ogee Profile Knife*	(5/8"Panels)	RP1000	309
RP-C34	Ogee Profile Knife**	(3/4"Panels)	RP1000	312
RP-D	Ogee Profile Knife*	(5/8"Panels)	RP1000	312
RP-D34	Ogee Profile Knife**	(3/4"Panels)	RP1000	311
RP-E	Cove Profile Knife*	(5/8"Panels)	RP1000	311
RP-E34	Cove Profile Knife**	(3/4"Panels)	RP1000	312

\* Primarily for raising 5/8" thick panels but can be used to raise 3/4" thick panels when combined with a back cutter.

\*\*For 3/4" raising 3/4" thick panels.



## Replacement Carbide Profile Knives for Performance System® Shaper Cutters

## PARTS & ACCESSORIES

### RS2000 Rail and Stile Door System Replacement Knives

ITEM NUMBER	PROFILE DESCRIPTION	FOR CUTTER HEAD	PAGE NUMBER
RS-K**	Groover Knives	RS-R	317
RS-L*	Back Tenon Knife	RS-S	317
RS-A	Roman Ogee Profile Knives	RS-R	318-319
RS-B	Ogee Profile Knives	RS-R	320-321
RS-C	Bead Profile Knives	RS-R	322-323
RS-D	Cove & Fillet Profile Knives	RS-R	324-325
RS-E	Round Over Profile Knives	RS-R	326-327
RS-F	Cove Profile Knives	RS-R	328-329
RS-G	Multi-Bead Profile Knives	RS-R	330-331
RS-H	Multi-Cove Profile Knives	RS-R	332-333
RS-I	Cove & Bead Profile Knives	RS-R	334-335

"#" Determines bore size. See Bushing & Rub Collars for bore selection.

\*Glass Door and Back Tenon knife for Head RS-S

\*\*Groover Knives for Head RS-R



### USE IN



Shaper Machine

### APPLICATION

These resharpenable carbide knives are designed to cut the same radius either concave or convex. The cutterhead is computer balanced and is sold separately from the knives.

### MATERIALS



Hardwood

Softwood

MDF

Plywood

SHAPER CUTTERS

# PARTS & ACCESSORIES

## USE IN



Shaper Machine

## APPLICATION

For general use in scoring, shaping and planing of panel materials and solid wood

## MATERIALS



Hardwood

Softwood

MDF

Laminate

## Carbide Insert Knives

### Straight Knives - Turnover Knives

ITEM NUMBER	LENGTH	WIDTH	THICKNESS	SIDES
RG01MAA310	14	14	2	4
RG01MAB310	14	14	1.2	4
RG01MAG310	14	14	2	4
RG01MBA310	15	15	2.5	4
RG02MAA305	22.86	22.86	2.5	3
RG03MAA305	21.9	21.9	2.5	3
CG06MAA310*	12	12	1.5	2
CG06MCA310*	20	12	1.5	2
CG06MDA310*	30	12	1.5	2
CG06MEA310*	40	12	1.5	2
CG06MFA310*	50	12	1.5	2
CG06MGA310*	60	12	1.5	2
CG08MBA310	12	12	1.5	2
CG08MCA310	15	12	1.5	2
CG08MDA310	20	12	1.5	2
CG08MEA310	30	12	1.5	2
CG08MFA310	50	12	1.5	2
CG08MGA310	60	12	1.5	2
CG08MLA310	40	12	1.5	2

Red Item Numbers for Laminate and Composites

\* Solid Wood



For universal use in Molder Heads, Shaper Cutters, Milling Cutters and Hogging Units

## Carbide Insert Knives

## PARTS & ACCESSORIES

CONTINUED

### Straight Cutting Edge with Rounded Corners

ITEM NUMBER	LENGTH	WIDTH	THICKNESS	EDGES	BACK RELIEF	RADIUS	RADIUS CORNER
RR01MAA310	14	14	2	4	30°	-	0.5
RR01MAB310	14	14	2	4	37°	-	0.5
RR01MBA310	14.6	14.6	2.5	4	30°	-	0.5
RR01MCA310	15	15	2.5	4	30°	-	0.5
RR01MCB310	15	15	2.5	4	37°	-	0.5

### Cutting Edge with Radius and Standard Corners

ITEM NUMBER	LENGTH	WIDTH	THICKNESS	EDGES	BACK RELIEF	RADIUS	RADIUS CORNER
RR10MAA310	14	14	2	4	30°	150	-
RR10MBA310	14.6	14.6	2.5	4	30°	150	-
RR10MCA310	15	15	2.5	4	30°	150	-
RR10MCB310	15	15	2.5	4	30°	50	-

### Cutting Edge with Radius and Corners

ITEM NUMBER	LENGTH	WIDTH	THICKNESS	EDGES	BACK RELIEF	RADIUS	RADIUS CORNER
RR11MAA310	14	14	2	4	30°	150	0.5
RR11MBA310	14.6	14.6	2.5	4	30°	150	0.5
RR11MCA310	15	15	2.5	4	30°	150	0.5
RR11MCB310	15	15	2.5	4	30°	50	0.5
RR11MCC310	15	15	2.5	4	30°	115	0.5

### USE IN



Shaper Machine

### APPLICATION

For general use in scoring, shaping and planing of panel materials and solid wood

### MATERIALS



Hardwood

Softwood

MDF

Plywood

SHAPER CUTTERS



For universal use in Molder Heads, Shaper Cutters, Milling Cutters and Hogging Units

# PARTS & ACCESSORIES

## APPLICATION

Made from a premium High Speed Steel stock, each item is pre-ground to a razor sharp edge to provide a super smooth cut

## MATERIALS



Hardwood Softwood Plywood



OSB Solid Surface

# High Speed Steel Industrial Planer & Jointer Knives

ITEM NUMBER	LENGTH	WIDTH	THICKNESS	NUMBER OF PIECES
C010	12"	7/8"	1/8"	1
C012	12"	7/8"	1/8"	3
C020	12-1/2"	15/16"	1/8"	1
C030	13-1/8"	11/16"	5/32"	1
C035	18"	1-1/8"	5/32"	1
C040	19"	11/16"	1/8"	1
C045	15"	1"	1/8"	3
C050	20"	1"	1/8"	1
C052	20"	1-3/16"	1/8"	4
C055	20-1/2"	11/16"	1/8"	3
C060	24"	1-1/8"	5/32"	1
C070	24"	1-1/2"	5/32"	1
C090	25"	5/8"	3/32"	1
C100	25"	5/8"	1/8"	1
C110	25"	3/4"	1/8"	1
C120	25"	1-1/4"	1/8"	1
C130	25"	1-1/4"	5/32"	1
C140	30"	1-1/2"	1/8"	1
C150	37"	1-1/8"	1/8"	1
C160	37"	1-3/8"	1/8"	1
C170	37"	1-3/8"	5/32"	1
C180	37"	1-1/4"	5/32"	1
C190	37"	1-1/2"	5/32"	1
C200	37"	2"	5/32"	1
C310	4"	5/8"	1/8"	3
C320	4"	7/8"	1/8"	3
C330	4-3/8"	11/16"	1/8"	3
C350	6"	5/8"	1/8"	3
C351	6"	5/8"	1/8"	4
C360	6"	7/8"	1/8"	3
C370	6"	1"	1/8"	2
C390	6-1/16"	3/4"	1/8"	3
C400	6-1/8"	11/16"	1/8"	3
C410	6-1/8"	3/4"	1/8"	3
C420	6-1/2"	1"	1/8"	3
C430	8"	5/8"	1/16"	4
C440	8"	5/8"	1/8"	4
C441	8"	5/8"	1/8"	3
C460	8"	3/4"	1/8"	3
C470	8"	7/8"	1/8"	3
C480	8"	1"	1/8"	3
C490	8-1/16"	5/8"	3/32"	3
C491	8-1/16"	5/8"	3/32"	4
C510	12"	5/8"	1/8"	3
C520	12"	3/4"	1/8"	3
C540	12"	1"	1/8"	3
C550	12-1/4"	5/8"	1/8"	3

\* Solid Carbide

\* These knives are designed for the following machines:

- C600 – Ryobi AP10
- C610 – Makita 2030N

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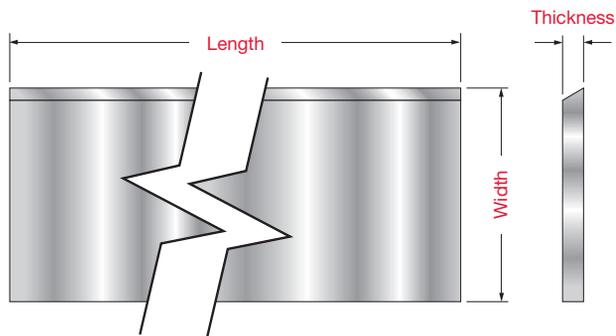
## High Speed Steel Industrial Planer & Jointer Knives

CONTINUED

ITEM NUMBER	LENGTH	WIDTH	THICKNESS	NUMBER OF PIECES
C560	12-1/4"	3/4"	1/8"	3
C570	12-1/4"	1"	1/8"	3
C573	12-1/2"	11/16"	1/8"	3
C583	25"	11/16"	1/8"	3
C593	18-1/2"	11/16"	1/8"	3
C600*	10"	1-3/8"	1/8"	2
C610*	12-1/2"	35mm	1/8"	2
C620*	15-5/8"	35mm	1/8"	2
C630*	13-1/8"	1"	1/8"	3

\* These knives are designed for the following machines:  
 C600 — Ryobi AP10  
 C610 — Makita 2030N  
 C620 — Makita 2040  
 C630 — Delta RC-33

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## Biscuit/Plate Joiner Replacement Blade

ITEM NUMBER	LENGTH	TEETH	BORE
FI100	3-15/16"	6"	22mm
FI102	3-15/16"	8"	22mm



Black Item Numbers  
 Indicate 3/4" Bore

Red Item Numbers Indicate 1-1/4" Bore

All Profile Drawings 1:1 Scale

## PARTS & ACCESSORIES

### APPLICATION

Made from a premium High Speed Steel stock, each item is pre-ground to a razor sharp edge to provide a super smooth cut

### MATERIALS



## PARTS & ACCESSORIES

### APPLICATION

The FI100/FI102 Biscuit Joiner Blade is the perfect upgrade for your Freud JS100 or JS102 and many other popular joiners. This 3-15/16-inch blade has a 22 mm bore and features eight Super Micrograin Carbide teeth for longest life.

### MATERIALS



SHAPER CUTTERS

# DRILLING & BORING BITS



Freud's Forstner & Boring bits are carefully crafted using the best materials, the most innovative designs, and the industry's most sophisticated manufacturing processes. Each bit is specifically designed for superior performance and maximum life. Freud's Precision Shear™ Forstner Bits feature a double-ground, razor-sharp serrated edge that slices throughout the rotation of the bit for less splintering and chipping, producing flawless flat-bottom holes.

*Freud drill bits – Precisely The Best.*



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# FORSTNER, BORING, & DRILL BITS



## Carbide Forstner Bits

### USE IN



Hand Held Drills    Drill Presses

### APPLICATION

Drill through a multitude of materials. Use to drill pocket holes, angled holes, overlapping holes and flat bottom holes. Best of all, these bits will not burn like a standard forstner and will stay sharp many times longer. These bits can be sharpened by any reputable sharpening service who sharpens router bits.

### ROTATION

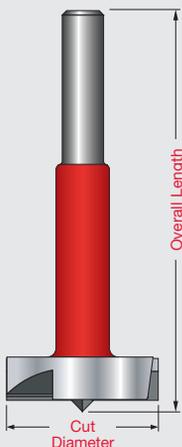


### MATERIALS



Hardwood    Softwood    Plywood

OSB    Solid Surface



ITEM NUMBER	CUT DIA.	OVERALL LENGTH	SHANK DIA.
FC-001	1/4"	3-7/16"	5/32"
FC-002	3/8"	3-7/16"	1/4"
FC-003	1/2"	3-15/32"	5/16"
FC-004	5/8"	3-1/2"	5/16"
FC-005	3/4"	3-1/2"	3/8"
FC-006	7/8"	3-1/2"	3/8"
FC-007	1"	3-1/2"	3/8"
FC-008	1-1/8"	3-1/2"	3/8"
FC-009	1-1/4"	3-1/2"	3/8"
FC-010	1-3/8"	3-1/2"	3/8"
FC-011	1-1/2"	3-1/2"	3/8"
FC-012	1-5/8"	3-1/2"	3/8"
FC-013	1-3/4"	3-1/2"	3/8"
FC-014	1-7/8"	3-1/2"	3/8"
FC-015	2"	3-1/2"	3/8"
FC-016	2-1/8"	3-1/2"	3/8"

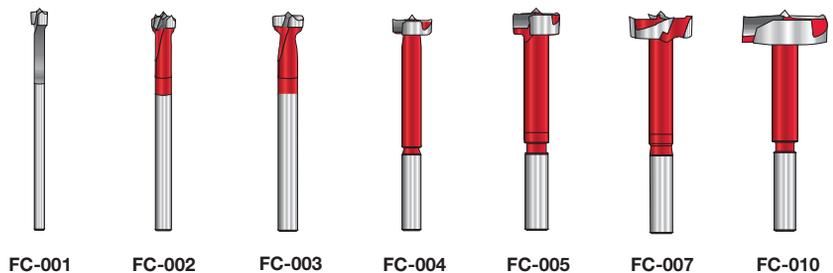
### Seven Piece Carbide Forstner Bit Set

### Set FC-107



1/4" diameter to 1-3/8" diameter. These bits come packaged in a sturdy wooden case for protection and storage.

ITEM NUMBER	OUTSIDE DIA.
FC-001	1/4"
FC-002	3/8"
FC-003	1/2"
FC-004	5/8"
FC-005	3/4"
FC-007	1"
FC-010	1-3/8"



DRILL BITS

# Precision Shear™ Forstner Bits



# FORSTNER, BORING, & DRILL BITS

ITEM NUMBER	CUT DIA.	OVERALL LENGTH	SHANK DIA.
PB-001	1/4"	3-1/2"	1/4"
PB-002	3/8"	3-1/2"	1/4"
PB-003	1/2"	3-1/2"	1/4"
PB-004	5/8"	3-1/2"	5/16"
PB-005	3/4"	3-1/2"	3/8"
PB-006	7/8"	3-1/2"	3/8"
PB-007	1"	3-1/2"	3/8"
PB-008	1-1/8"	3-1/2"	3/8"
PB-009	1-1/4"	3-1/2"	3/8"
PB-010	1-3/8"	3-1/2"	3/8"
PB-011	1-1/2"	3-1/2"	3/8"
PB-012	1-5/8"	3-1/2"	3/8"
PB-013	1-3/4"	3-1/2"	3/8"
PB-014	1-7/8"	3-1/2"	3/8"
PB-015	2"	3-1/2"	3/8"
PB-016	2-1/8"	3-1/2"	3/8"
PB-0015	5/16"	3-1/2"	1/4"
PB-0025	7/16"	3-1/2"	5/16"
PB-0035	9/16"	3-1/2"	5/16"
PB-0045	11/16"	3-1/2"	5/16"
PB-0055	13/16"	3-1/2"	3/8"
PB-0065	15/16"	3-1/2"	3/8"
PB-M35	35mm	3-1/2"	10mm



## USE IN

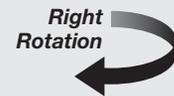


Hand Held Drills Drill Presses

## APPLICATION

Drill pocket holes, angled holes, overlapping holes and flat bottom holes

## ROTATION



**DOUBLE GROUND, RAZOR -SHARP SERRATED EDGE** for less splintering and chipping, producing flawless flat-bottom holes



**FORGED HARDENED STEEL BODY** warrants a longer life and sharper cutting edge.



**STEEP ANGLED CUTTING EDGES** produce holes that are smooth and flat, and create "chisel-like" curls for fast, clean chip removal.

## MATERIALS



Hardwood Softwood Plywood

OSB

Solid Surface

DRILL BITS

# FORSTNER, BORING, & DRILL BITS



## Precision Shear™ Forstner Bits

CONTINUED

### USE IN



Hand Held Drills Drill Presses

### APPLICATION

Drill pocket holes, angled holes, overlapping holes and flat bottom holes

### ROTATION



**DOUBLE GROUND, RAZOR -SHARP SERRATED EDGE** for less splintering and chipping, producing flawless flat-bottom holes



**FORGED HARDENED STEEL BODY** warrants a longer life and sharper cutting edge



**STEEP ANGLED CUTTING EDGES** produce holes that are smooth and flat, and create "chisel-like" curls for fast, clean chip removal

### MATERIALS



Hardwood Softwood Plywood

OSB

Solid Surface

### Sixteen Piece Precision Shear™ Forstner Bit Set

Set PB-100



1/4" diameter to 2-1/8" diameter. These bits come packaged in a sturdy wooden case for protection and storage.

ITEM NUMBER	OUTSIDE DIA.
PB-001	1/4"
PB-002	3/8"
PB-003	1/2"
PB-004	5/8"
PB-005	3/4"
PB-006	7/8"
PB-007	1"
PB-008	1-1/8"
PB-009	1-1/4"
PB-010	1-3/8"
PB-011	1-1/2"
PB-012	1-5/8"
PB-013	1-3/4"
PB-014	1-7/8"
PB-015	2"
PB-016	2-1/8"



PB-001 PB-002 PB-003 PB-004 PB-005



PB-006 PB-007 PB-008 PB-009 PB-010



PB-0011 PB-0012 PB-0013 PB-0014 PB-0015 PB-0016

DRILL BITS

# Precision Shear™ Forstner Bits



# FORSTNER, BORING, & DRILL BITS

CONTINUED

## Seven Piece Precision Shear™ Forstner Bit Set Set PB-107B



1/4" diameter to 2-1/8" diameter.

ITEM NUMBER	OUTSIDE DIA.
PB-001	1/4"
PB-003	1/2"
PB-005	3/4"
PB-007	1"
PB-002	3/8"
PB-004	5/8"
PB-006	7/8"

## Four Piece Precision Shear™ Forstner Bit Set Set PB-104



1/4" diameter to 1" diameter.

ITEM NUMBER	OUTSIDE DIA.
PB-001	1/4"
PB-003	1/2"
PB-005	3/4"
PB-007	1"

### USE IN



Hand Held Drills Drill Presses

### APPLICATION

Drill flat bottom holes, pocket holes, or overlapping holes.

### ROTATION



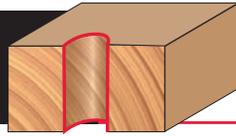
### MATERIALS



Hardwood Softwood Plywood

DRILL BITS

# FORSTNER, BORING, & DRILL BITS



## Industrial Carbide Tipped Through Hole Boring Bits

### USE IN



CNC

Drill Presses

### APPLICATION

Designed for multiple spindle machines. The 60° point makes for accurate hole location of through holes.

### INCLUDES

10mm shank with an adjustable top screw making them compatible with most boring machines

### MATERIALS



Hardwood

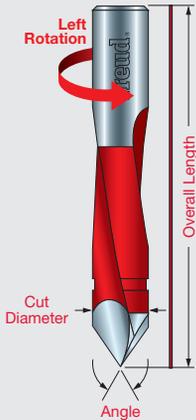
Softwood

Plywood

Laminate

OSB

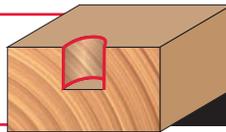
Solid Surface



DRILL BITS

ITEM NUMBER	CUT DIA.	OVERALL LENGTH	MAX HOLE DEPTH	ROTATION	ANGLE	SHANK DIA.
TH39657R	5/32"	57.5mm	27mm	Right	60°	10mm
TH39657L	5/32"	57.5mm	27mm	Left	60°	10mm
TH40057R	4mm	57.5mm	27mm	Right	60°	10mm
TH40057L	4mm	57.5mm	27mm	Left	60°	10mm
TH47657R	3/16"	57.5mm	27mm	Right	60°	10mm
TH47657L	3/16"	57.5mm	27mm	Left	60°	10mm
TH50057R	5mm	57.5mm	27mm	Right	60°	10mm
TH50057L	5mm	57.5mm	27mm	Left	60°	10mm
TH55557R	7/32"	57.5mm	27mm	Right	60°	10mm
TH55557L	7/32"	57.5mm	27mm	Left	60°	10mm
TH60057R	6mm	57.5mm	27mm	Right	60°	10mm
TH60057L	6mm	57.5mm	27mm	Left	60°	10mm
TH63557R	1/4"	57.5mm	27mm	Right	60°	10mm
TH63557L	1/4"	57.5mm	27mm	Left	60°	10mm
TH70057R	7mm	57.5mm	27mm	Right	60°	10mm
TH70057L	7mm	57.5mm	27mm	Left	60°	10mm
TH80057R	8mm	57.5mm	27mm	Right	60°	10mm
TH80057L	8mm	57.5mm	27mm	Left	60°	10mm
TH90057R	9mm	57.5mm	27mm	Right	60°	10mm
TH90057L	9mm	57.5mm	27mm	Left	60°	10mm
TH93857R	3/8"	57.5mm	27mm	Right	60°	10mm
TH93857L	3/8"	57.5mm	27mm	Left	60°	10mm
TH10057R	10mm	57.5mm	27mm	Right	60°	10mm
TH10057L	10mm	57.5mm	27mm	Left	60°	10mm
TH12057R	12mm	57.5mm	27mm	Right	60°	10mm
TH12057L	12mm	57.5mm	27mm	Left	60°	10mm
TH39670R	5/32"	70mm	35mm	Right	60°	10mm
TH39670L	5/32"	70mm	35mm	Left	60°	10mm
TH40070R	4mm	70mm	35mm	Right	60°	10mm
TH40070L	4mm	70mm	35mm	Left	60°	10mm
TH47670R	3/16"	70mm	35mm	Right	60°	10mm
TH47670L	3/16"	70mm	35mm	Left	60°	10mm
TH50070R	5mm	70mm	35mm	Right	60°	10mm
TH50070L	5mm	70mm	35mm	Left	60°	10mm
TH55570R	7/32"	70mm	35mm	Right	60°	10mm
TH55570L	7/32"	70mm	35mm	Left	60°	10mm
TH60070R	6mm	70mm	35mm	Right	60°	10mm
TH60070L	6mm	70mm	35mm	Left	60°	10mm
TH63570R	1/4"	70mm	35mm	Right	60°	10mm
TH63570L	1/4"	70mm	35mm	Left	60°	10mm
TH70070R	7mm	70mm	35mm	Right	60°	10mm
TH70070L	7mm	70mm	35mm	Left	60°	10mm
TH80070R	8mm	70mm	35mm	Right	60°	10mm
TH80070L	8mm	70mm	35mm	Left	60°	10mm
TH90070R	9mm	70mm	35mm	Right	60°	10mm
TH90070L	9mm	70mm	35mm	Left	60°	10mm
TH93870R	3/8"	70mm	35mm	Right	60°	10mm
TH93870L	3/8"	70mm	35mm	Left	60°	10mm
TH10070R	10mm	70mm	35mm	Right	60°	10mm
TH10070L	10mm	70mm	35mm	Left	60°	10mm
TH12070R	12mm	70mm	35mm	Right	60°	10mm
TH12070L	12mm	70mm	35mm	Left	60°	10mm
TH12770R	1/2"	70mm	35mm	Right	60°	10mm
TH12770L	1/2"	70mm	35mm	Left	60°	10mm

## Industrial Carbide Tipped Brad Point Boring Bits



## FORSTNER, BORING, & DRILL BITS

ITEM NUMBER	CUT DIA.	OVERALL LENGTH	MAX HOLE DEPTH	ROTATION	SHANK DIA.
BP30057R	3mm	57.5mm	27mm	Right	10mm
BP30057L	3mm	57.5mm	27mm	Left	10mm
BP39657R	5/32"	57.5mm	27mm	Right	10mm
BP39657L	5/32"	57.5mm	27mm	Left	10mm
BP40057R	4mm	57.5mm	27mm	Right	10mm
BP40057L	4mm	57.5mm	27mm	Left	10mm
BP45057R	4.5mm	57.5mm	27mm	Right	10mm
BP45057L	4.5mm	57.5mm	27mm	Left	10mm
BP47657R	3/16"	57.5mm	27mm	Right	10mm
BP47657L	3/16"	57.5mm	27mm	Left	10mm
BP50057R	5mm	57.5mm	27mm	Right	10mm
BP50057L	5mm	57.5mm	27mm	Left	10mm
BP52057R	5.2mm	57.5mm	27mm	Right	10mm
BP52057L	5.2mm	57.5mm	27mm	Left	10mm
BP55557R	7/32"	57.5mm	27mm	Right	10mm
BP55557L	7/32"	57.5mm	27mm	Left	10mm
BP60057R	6mm	57.5mm	27mm	Right	10mm
BP60057L	6mm	57.5mm	27mm	Left	10mm
BP63557R	1/4"	57.5mm	27mm	Right	10mm
BP63557L	1/4"	57.5mm	27mm	Left	10mm
BP65057R	6.5mm	57.5mm	27mm	Right	10mm
BP65057L	6.5mm	57.5mm	27mm	Left	10mm
BP70057R	7mm	57.5mm	27mm	Right	10mm
BP70057L	7mm	57.5mm	27mm	Left	10mm
BP80057R	8mm	57.5mm	27mm	Right	10mm
BP80057L	8mm	57.5mm	27mm	Left	10mm
BP82057R	8.2mm	57.5mm	27mm	Right	10mm
BP82057L	8.2mm	57.5mm	27mm	Left	10mm
BP90057R	9mm	57.5mm	27mm	Right	10mm
BP90057L	9mm	57.5mm	27mm	Left	10mm
BP93857R	3/8"	57.5mm	27mm	Right	10mm
BP93857L	3/8"	57.5mm	27mm	Left	10mm
BP10057R	10mm	57.5mm	27mm	Right	10mm
BP10057L	10mm	57.5mm	27mm	Left	10mm
BP11057R	11mm	57.5mm	27mm	Right	10mm
BP11057L	11mm	57.5mm	27mm	Left	10mm
BP11157R	7/16"	57.5mm	27mm	Right	10mm
BP11157L	7/16"	57.5mm	27mm	Left	10mm
BP12057R	12mm	57.5mm	27mm	Right	10mm
BP12057L	12mm	57.5mm	27mm	Left	10mm
BP12757R	1/2"	57.5mm	27mm	Right	10mm
BP12757L	1/2"	57.5mm	27mm	Left	10mm
BP13057R	13mm	57.5mm	27mm	Right	10mm
BP13057L	13mm	57.5mm	27mm	Left	10mm
BP14057R	14mm	57.5mm	27mm	Right	10mm
BP14057L	14mm	57.5mm	27mm	Left	10mm
BP15057R	15mm	57.5mm	27mm	Right	10mm
BP15057L	15mm	57.5mm	27mm	Left	10mm
BP16057R	16mm	57.5mm	27mm	Right	10mm
BP16057L	16mm	57.5mm	27mm	Left	10mm
BP39670R	5/32"	70mm	35mm	Right	10mm
BP39670L	5/32"	70mm	35mm	Left	10mm

### USE IN



CNC

Drill Presses

### APPLICATION

Designed for multiple spindle machines. The 60° point makes for accurate hole location of through holes.

### INCLUDES

10mm shank with an adjustable top screw making them compatible with most boring machines

### MATERIALS



Hardwood

Softwood

Plywood

Laminate

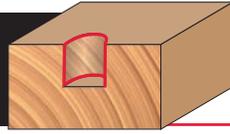
OSB

Solid Surface



DRILL BITS

# FORSTNER, BORING, & DRILL BITS



## Industrial Carbide Tipped Brad Point Boring Bits

### USE IN



### APPLICATION

Designed for multiple spindle machines. The 60° point makes for accurate hole location of through holes.

### INCLUDES

10mm shank with an adjustable top screw making them compatible with most boring machines

### MATERIALS



### CONTINUED

ITEM NUMBER	CUT DIA.	OVERALL LENGTH	MAX HOLE DEPTH	ROTATION	SHANK DIA.
BP40070R	4mm	70mm	35mm	Right	10mm
BP40070L	4mm	70mm	35mm	Left	10mm
BP47670R	3/16"	70mm	35mm	Right	10mm
BP47670L	3/16"	70mm	35mm	Left	10mm
BP50070R	5mm	70mm	35mm	Right	10mm
BP50070L	5mm	70mm	35mm	Left	10mm
BP51070R	5.1mm	70mm	35mm	Right	10mm
BP51070L	5.1mm	70mm	35mm	Left	10mm
BP52070R	5.2mm	70mm	35mm	Right	10mm
BP52070L	5.2mm	70mm	35mm	Left	10mm
BP55570R	7/32"	70mm	35mm	Right	10mm
BP55570L	7/32"	70mm	35mm	Left	10mm
BP60070R	6mm	70mm	35mm	Right	10mm
BP60070L	6mm	70mm	35mm	Left	10mm
BP63570R	1/4"	70mm	35mm	Right	10mm
BP63570L	1/4"	70mm	35mm	Left	10mm
BP65070R	6.5mm	70mm	35mm	Right	10mm
BP65070L	6.5mm	70mm	35mm	Left	10mm
BP70070R	7mm	70mm	35mm	Right	10mm
BP70070L	7mm	70mm	35mm	Left	10mm
BP80070R	8mm	70mm	35mm	Right	10mm
BP80070L	8mm	70mm	35mm	Left	10mm
BP82070R	8.2mm	70mm	35mm	Right	10mm
BP82070L	8.2mm	70mm	35mm	Left	10mm
BP90070R	9mm	70mm	35mm	Right	10mm
BP90070L	9mm	70mm	35mm	Left	10mm
BP93870R	3/8"	70mm	35mm	Right	10mm
BP93870L	3/8"	70mm	35mm	Left	10mm
BP10070R	10mm	70mm	35mm	Right	10mm
BP10070L	10mm	70mm	35mm	Left	10mm
BP11170R	7/16"	70mm	35mm	Right	10mm
BP11170L	7/16"	70mm	35mm	Left	10mm
BP12070R	12mm	70mm	35mm	Right	10mm
BP12070L	12mm	70mm	35mm	Left	10mm
BP12770R	1/2"	70mm	35mm	Right	10mm
BP12770L	1/2"	70mm	35mm	Left	10mm
BP14070R	14mm	70mm	35mm	Right	10mm
BP14070L	14mm	70mm	35mm	Left	10mm
BP15070R	15mm	70mm	35mm	Right	10mm
BP15070L	15mm	70mm	35mm	Left	10mm
BP16070R	16mm	70mm	35mm	Right	10mm
BP16070L	16mm	70mm	35mm	Left	10mm

# Industrial Carbide Tipped Cylinder (Hinge) Boring Bits



# FORSTNER, BORING, & DRILL BITS

ITEM NUMBER	CUT DIA.	OVERALL LENGTH	ROTATION	SHANK DIA.
CB12057R	12mm	57.5mm	Right	10mm
CB12057L	12mm	57.5mm	Left	10mm
CB12070R	13mm	57.5mm	Right	10mm
CB12070L	13mm	57.5mm	Left	10mm
CB12770R	1/2"	57.5mm	Right	10mm
CB12770L	1/2"	57.5mm	Left	10mm
CB14057R	14mm	57.5mm	Right	10mm
CB14070L	14mm	57.5mm	Left	10mm
CB14070R	14mm	57.5mm	Right	10mm
CB14057L	14mm	57.5mm	Left	10mm
CB15057R	15mm	57.5mm	Right	10mm
CB15057L	15mm	57.5mm	Left	10mm
CB16057R	16mm	57.5mm	Right	10mm
CB16057L	16mm	57.5mm	Left	10mm
CB17057R	17mm	57.5mm	Right	10mm
CB17057L	17mm	57.5mm	Left	10mm
CB18057R	18mm	57.5mm	Right	10mm
CB18057L	18mm	57.5mm	Left	10mm
CB19057R	19mm	57.5mm	Right	10mm
CB19057L	19mm	57.5mm	Left	10mm
CB20057R	20mm	57.5mm	Right	10mm
CB20057L	20mm	57.5mm	Left	10mm
CB22057R	22mm	57.5mm	Right	10mm
CB22057L	22mm	57.5mm	Left	10mm
CB24057R	24mm	57.5mm	Right	10mm
CB24057L	24mm	57.5mm	Left	10mm
CB25057R	25mm	57.5mm	Right	10mm
CB25057L	25mm	57.5mm	Left	10mm
CB26057R	26mm	57.5mm	Right	10mm
CB26057L	26mm	57.5mm	Left	10mm
CB28057R	28mm	57.5mm	Right	10mm
CB28057L	28mm	57.5mm	Left	10mm
CB30057R	30mm	57.5mm	Right	10mm
CB30057L	30mm	57.5mm	Left	10mm
CB32057R	32mm	57.5mm	Right	10mm
CB32057L	32mm	57.5mm	Left	10mm
CB35057R	35mm	57.5mm	Right	10mm
CB35057L	35mm	57.5mm	Left	10mm
3557E	35mm	57.5mm	Right	3/8"
CB38057R	38mm	57.5mm	Right	10mm
CB38057L	38mm	57.5mm	Left	10mm
CB40057R	40mm	57.5mm	Right	10mm
CB40057L	40mm	57.5mm	Left	10mm
CB15070R	15mm	70mm	Right	10mm
CB15070L	15mm	70mm	Left	10mm
CB16070R	16mm	70mm	Right	10mm
CB16070L	16mm	70mm	Left	10mm
CB17070R	17mm	70mm	Right	10mm
CB17070L	17mm	70mm	Left	10mm
CB18070R	18mm	70mm	Right	10mm
CB18070L	18mm	70mm	Left	10mm
CB19570R	3/4"	70mm	Right	10mm
CB19570L	3/4"	70mm	Left	10mm
CB20070R	20mm	70mm	Right	10mm
CB20070L	20mm	70mm	Left	10mm
CB22070R	22mm	70mm	Right	10mm
CB22070L	22mm	70mm	Left	10mm
CB25070R	25mm	70mm	Right	10mm
CB25070L	25mm	70mm	Left	10mm
CB26070R	26mm	70mm	Right	10mm
CB26070L	26mm	70mm	Left	10mm
CB30070R	30mm	70mm	Right	10mm
CB30070L	30mm	70mm	Left	10mm
CB35070R	35mm	70mm	Right	10mm
CB35070L	35mm	70mm	Left	10mm
CB38070R	38mm	70mm	Right	10mm
CB38070L	38mm	70mm	Left	10mm
CB40070R	40mm	70mm	Right	10mm
CB40070L	40mm	70mm	Left	10mm

## USE IN



## APPLICATION

Designed for accurate boring and the two wing cutters and two spur cutters prevent bottom side tear out. The 3557E is designed with a 3/8" shaft to fit in most drill presses.

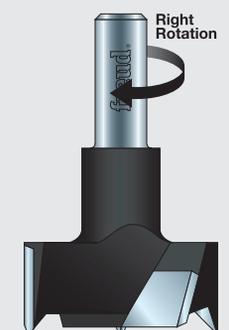
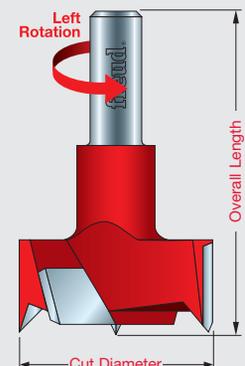
## INCLUDES

10mm shank with an adjustable top screw making them compatible with most boring machines

## MATERIALS



## Industrial Cylinder Boring Bits



DRILL BITS

# FORSTNER, BORING, & DRILL BITS

## Boring Machine Chucks

### USE IN



CNC

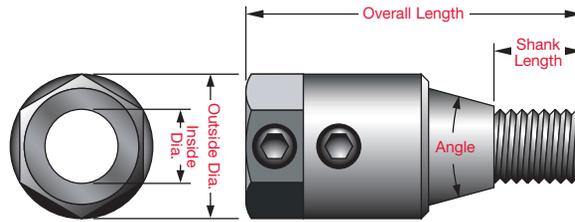
### APPLICATION

Made to exacting specifications for Multi- Spindle Boring machines. Will fit all 10mm X 20mm shank bits. 6020L and 6020R fit Vitap®, Busellato®, Schleicher®, Piccolo®, Ompec®, Dubelfix®, Alberti®, and SCMI® machines.

### MATERIALS

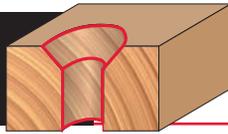


ITEM NUMBER	OUTSIDE DIA.	INSIDE DIA.	OVERALL LENGTH	ROTATION	ANGLE	SHANK DIA.	SHANK LENGTH
6010L	19.5mm	10mm	46mm	Left	30°	M10	12mm
6010R	19.5mm	10mm	46mm	Right	30°	M10	12mm
6015L	19.5mm	10mm	46mm	Left	30°	M10	12mm
6015R	19.5mm	10mm	46mm	Right	30°	M10	12mm
6020L	19.5mm	10mm	46mm	Left	30°	M10	12mm
6020R	19.5mm	10mm	46mm	Right	30°	M10	12mm
6025L	19.5mm	10mm	46mm	Left	30°	M10	12mm
6025R	19.5mm	10mm	46mm	Right	30°	M10	12mm
6030L	19.5mm	10mm	46mm	Left	30°	M10	12mm
6030R	19.5mm	10mm	46mm	Right	30°	M10	12mm
6035L	19.5mm	10mm	46mm	Left	30°	M10	12mm
6035R	19.5mm	10mm	46mm	Right	30°	M10	12mm



# FORSTNER, BORING, & DRILL BITS

## Carbide Tipped Boring Bit Countersinks



### USE IN



CNC

### APPLICATION

Engineered to meet the most demanding industrial applications, they simply slip over the body of boring bits, and are held in place with a set screw

### MATERIALS



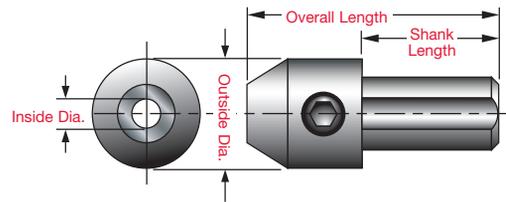
ITEM NUMBER	OUTSIDE DIA.	INSIDE DIA.	ROTATION	ANGLE
7010L	15.5mm	5mm	Left	82°
7010R	15.5mm	5mm	Right	82°
7012L	15.5mm	6mm	Left	82°
7012R	15.5mm	6mm	Right	82°
7013L	15.5mm	7mm	Left	82°
7013R	15.5mm	7mm	Right	82°
7014L	18mm	8mm	Left	82°
7014R	18mm	8mm	Right	82°
7016L	20mm	10mm	Left	82°
7016R	20mm	10mm	Right	82°



## 10mm Drill Adapters

# FORSTNER, BORING, & DRILL BITS

ITEM NUMBER	OUTSIDE DIA.	INSIDE DIA.	OVERALL LENGTH	SHANK DIA.	SHANK LENGTH
7120	15mm	2mm	35mm	10mm	19mm
7125	15mm	2.5mm	35mm	10mm	19mm
7130	15mm	3mm	35mm	10mm	19mm
7132	15mm	3.2mm	35mm	10mm	19mm
7135	15mm	3.5mm	35mm	10mm	19mm
7140	15mm	4mm	35mm	10mm	19mm



### USE IN



Hand Held Drills Drill Presses

### APPLICATION

Converts Freud Solid Carbide Drill Bits as well as other manufacturers bits for use in automatic and manual multi-spindle boring machines. The 10mm x 20mm shank is compatible with most boring machines.

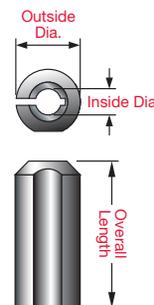
### MATERIALS



## 10mm Drill Bushings

# FORSTNER, BORING, & DRILL BITS

ITEM NUMBER	INSIDE DIA.	ROTATION	OVERALL LENGTH
7520	2mm	10mm	22mm
7525	2.5mm	10mm	22mm
7530	3mm	10mm	22mm
7532	3.2mm	10mm	22mm
7535	3.5mm	10mm	22mm
7540	4mm	10mm	22mm



### USE IN



Hand Held Drills Drill Presses

### APPLICATION

Converts Freud Solid Carbide Drill Bits as well as other manufacturers bits for use in automatic and manual multi-spindle boring machines. The 10mm x 20mm shank is compatible with most boring machines.

### MATERIALS



DRILL BITS

# FORSTNER, BORING, & REPLACEABLE KNIVES

## Solid Carbide Drill Bits

### APPLICATION

Ideal for drilling small diameter holes with multiple spindle machines. Use with adapters for 10mm x 20mm shank that is compatible with most European boring machines.

### MATERIALS



ITEM NUMBER	CUT DIA.	OVERALL LENGTH	MAX HOLE DEPTH	ROTATION	SHANK DIA.
7620L	2mm	49mm	18mm	Left	2mm
7620R	2mm	49mm	18mm	Right	2mm
7625L	2.5mm	55mm	22mm	Left	3mm
7625R	2.5mm	55mm	22mm	Right	3mm
7630L	3mm	55mm	22mm	Left	3mm
7630R	3mm	55mm	22mm	Right	3mm
7632L	3.2mm	55mm	22mm	Left	3mm
7632R	3.2mm	55mm	22mm	Right	3mm
7635L	3.5mm	55mm	22mm	Left	3mm
7635R	3.5mm	55mm	22mm	Right	3mm
7640L	4mm	55mm	22mm	Left	3mm
7640R	4mm	55mm	22mm	Right	3mm



# Freud's Warranties

## FREUD LIMITED LIFETIME CUTTING TOOL WARRANTY

All Freud cutting tools (Circular Saw Blades, Router Bits, Shaper Cutters, Molding Heads and Knives, Forstner Bits, Boring Bits, and Jointer and Planer Knives) are engineered and manufactured to the highest of standards. Your satisfaction is a dominant consideration. Freud warrants to the original purchaser at retail that each new Freud cutting tool shall be free from defects in material and workmanship, subject to the Guidelines below. Upon verification of failure or malfunction, Freud shall, at its option, within sixty (60) days, repair or replace the cutting tool, subject to the Guidelines below.

## FREUD LIMITED ONE YEAR POWER TOOL WARRANTY

Freud warrants to the original consumer purchaser that each new Freud power tool shall be free from defects in material and workmanship for a period of one (1) year from the purchase date. When warranty service is requested, proof of purchase (e.g., invoice) is required. Should the power tool fail within thirty (30) days from the date of purchase, it will be repaired or replaced AT THE CUSTOMER'S OPTION, subject to the Guidelines below. Thereafter, upon verification of failure or malfunction, at Freud's option, within sixty (60) days, repair or replace the power tool, subject to the Guidelines below.

## GUIDELINES

1. In the event of failure or malfunction, return the product via UPS, properly packaged and UPS charges prepaid, to Freud at the address listed below or to an authorized Freud tool service station. See back of price list for authorized repair dealers. You may also contact Freud at one of the numbers below for instructions on returns and technical advice.
2. All implied warranties for Freud's power tools (INCLUDING MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE) are limited to the period of one year from the purchase date. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.
3. A warranty claim shall be limited to repair or replacement as stated in Freud's Limited Cutting Tool Warranty and Freud's Limited Power Tool Warranty, and in no event shall Freud be liable for any other direct, indirect, incidental or consequential damages, costs or expenses. INCIDENTAL AND CONSEQUENTIAL DAMAGES ARE EXCLUDED UNDER ALL WARRANTIES. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.
4. Freud warranties give you specific legal rights, and you may also have other rights which vary from state to state.
5. Freud warranties shall not be deemed to have failed their essential purpose while Freud is willing to repair or replace defective products.
6. Freud assumes no liability for defects or damage caused by abuse or misuse of any product or unauthorized service of any product. The product must have been used for its recommended purpose and not modified by sharpening or other changes. Normal wear and tear are not covered under Freud warranties.
7. Any action for breach of warranty must be commenced within one year after the accrual of the cause of action.

To obtain service under Freud warranties, contact an authorized repair station or:

IN UNITED STATES:  
Freud America, Inc.  
(Attn: Customer Services)  
218 Feld Avenue  
High Point, North Carolina 27263  
(336) 434-3171

IN CANADA:  
Freud Canada  
(Attn: Customer Services)  
7450 Pacific Circle  
Mississauga, Ontario L5TA3  
(905) 670-1025

## MASTER PACK

Freud tools are packed in a master pack when ever possible. By ordering in these multiples, your receiving and storage will be made easier, quicker and more accurate.

## ORDERING BY FAX

Ordering by FAX saves you time and assures accuracy. Our fax lines are open 24 hours a day.

U.S. fax number: 336-434-8333

Canada fax number: 1-800-668-8802

## ORDER PROCESSING AND SHIPMENT

All orders are processed for shipment within 24 hours! If special shipping instructions are given, such as UPS Blue/Red or Federal Express, the order is processed and shipped the same day when received by 2:30 PM Eastern Standard Time.

# freud



## SAW BLADES

Pages 4–43



## PANEL SIZING SAW BLADES

Pages 44–61



## DADO SETS

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## ROUTER BITS

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## SHAPER CUTTERS

Pages 274–359



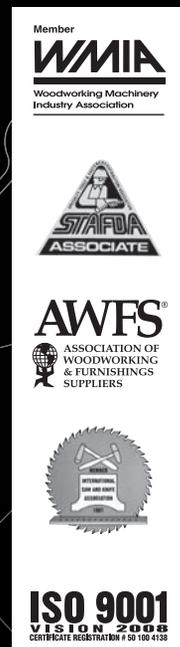
## FORSTNER, BORING & DRILL BITS

Pages 360–372



At Freud, we are constantly developing unique geometries for new tools for the best possible performance to enhance your productivity. We require extremely tight tolerances and demand that our sharpeners maintain “like new” tool performance.

To find a Freud Certified Sharpener near you please visit:  
[www.freudtools.com/sharpen](http://www.freudtools.com/sharpen)



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