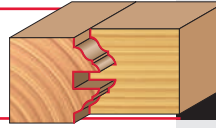


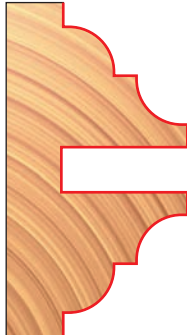
# 1-3/4" Stock Male & Female Exterior Door Cutter Sets



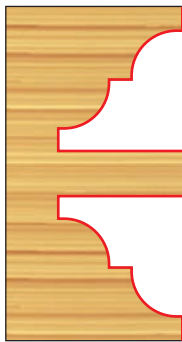
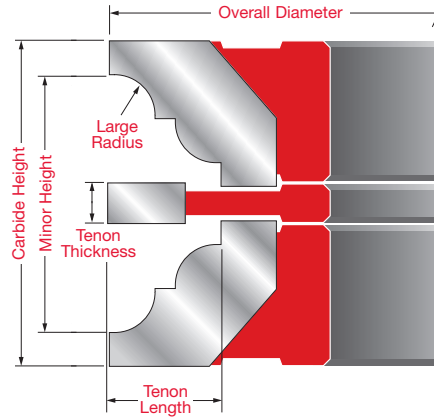
## FIXED WING CUTTER

CONTINUED

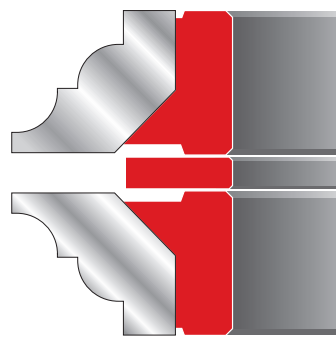
### Cove & Bead Profile (Double Sided)



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

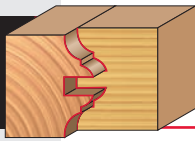
SHAPER CUTTERS

"#" 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



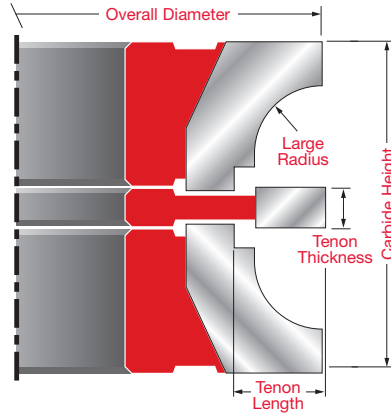
Hardwood

Softwood

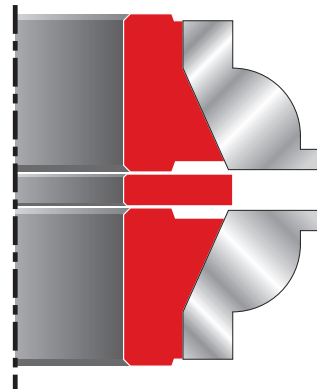
MDF

Plywood

### Bead Profile (Double Sided)



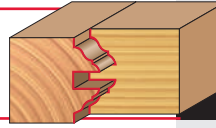
EC274 / UP274



EC274 / UP274

SHAPER CUTTERS

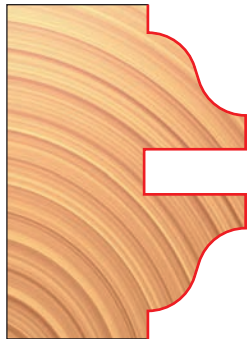
# 1-3/4" Stock Male & Female Exterior Door Cutter Sets



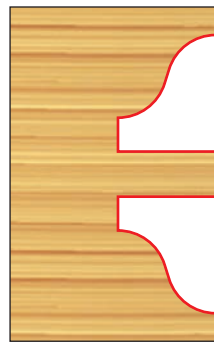
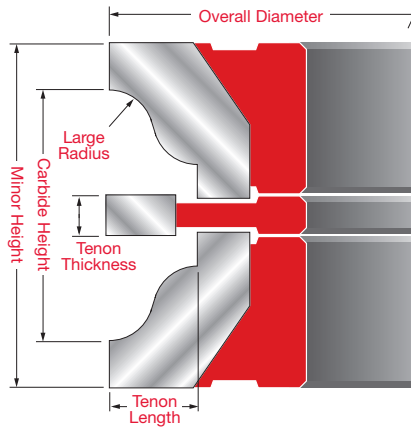
## FIXED WING CUTTER

CONTINUED

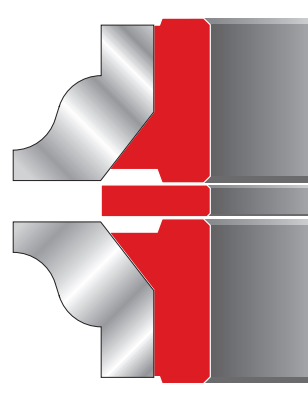
### Ogee Profile (Double Sided)



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

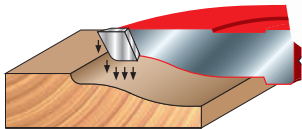
Micro-grain carbide allows for superior finish with a dramatically longer cutting life

### Red Hard Anodized Coating

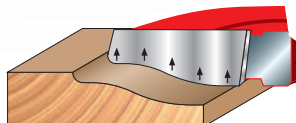
Protective coating protects the aluminum body from abrasion, extending the life of the shaper cutter

### 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



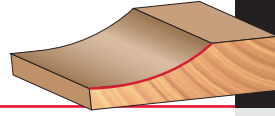
The large wing shears up for a perfect finish on the raised panel profile

### 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



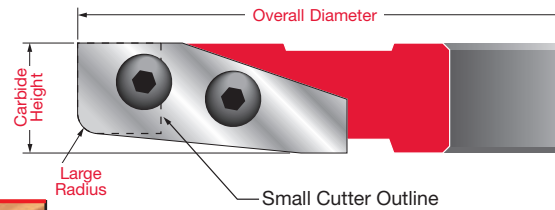
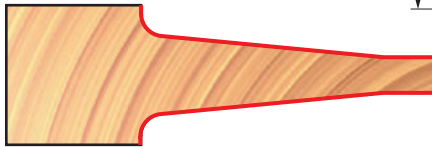
Hardwood

Softwood

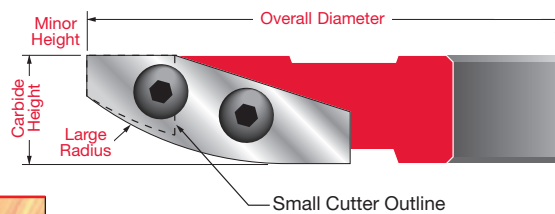
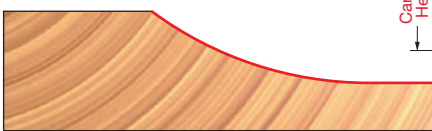
MDF

Plywood

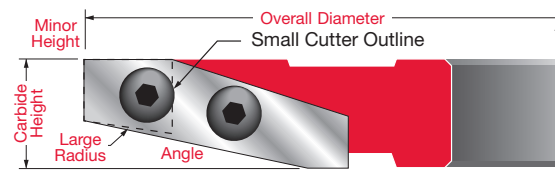
UP016-IC



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

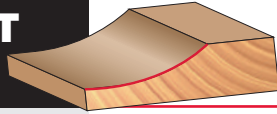
All Profile Drawings 1:1 Scale

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



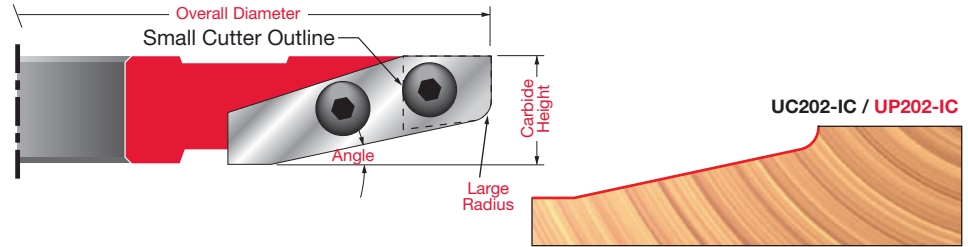
Hardwood

Softwood

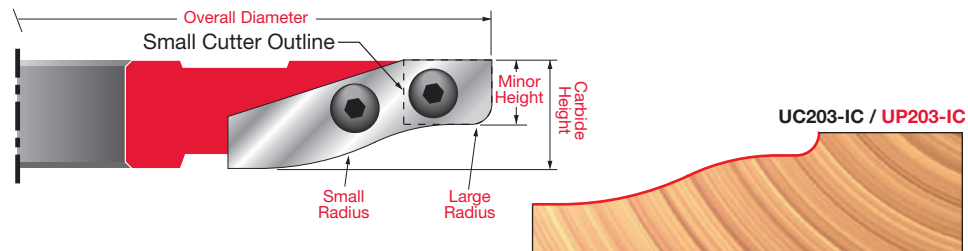
MDF

Plywood

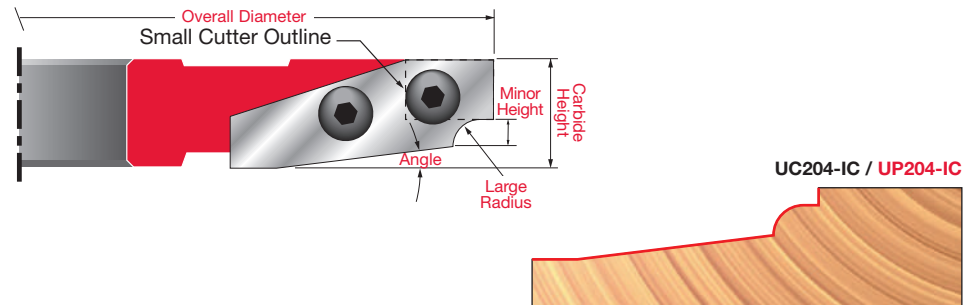
SHAPER CUTTERS



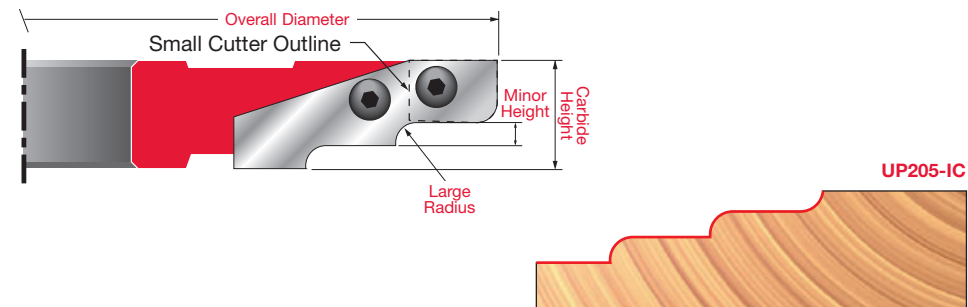
UC202-IC / UP202-IC



UC203-IC / UP203-IC

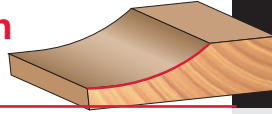


UC204-IC / UP204-IC



UP205-IC

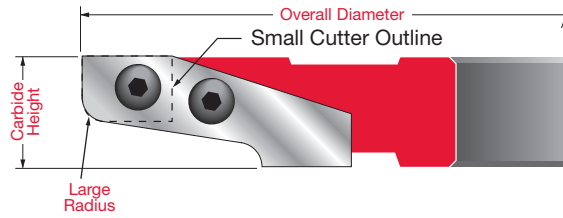
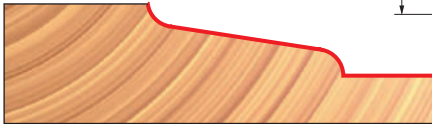
# 2+2 Advanced Cutter Design For 5/8" Stock



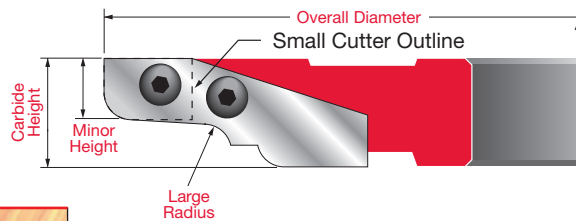
# CARBIDE INSERT CUTTER

CONTINUED

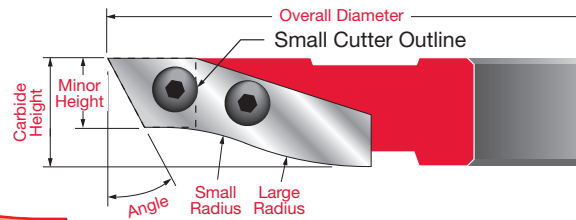
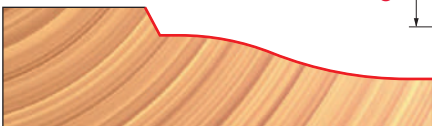
UP206-IC



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

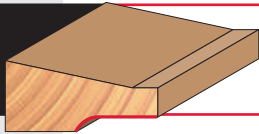
Softwood

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

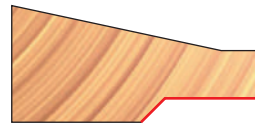
MDF

Plywood

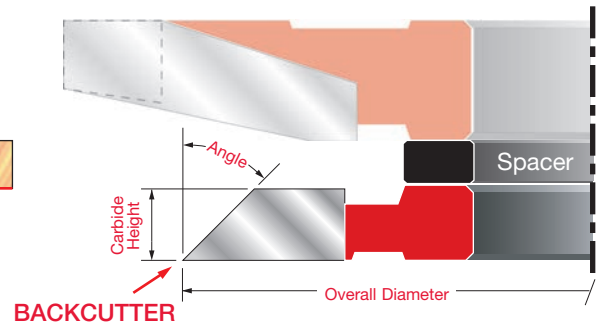
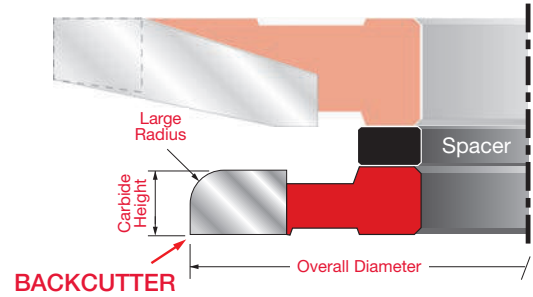
ITEM NUMBER	OVERALL DIA.	CARBIDE HEIGHT	LARGE RADIUS	ANGLE	OVERALL LENGTH	REPLACEMENT KNIVES
UC230-IC	3-11/32"	3/8"	13/64"	-	3/4"	ICK-U230
UP230-IC	3-15/16"	3/8"	13/64"	-	1-1/4"	ICK-U230
UC231-IC	3-45/64"	3/8"	-	45°	3/4"	ICK-U231
UP231-IC	4-9/32"	3/8"	-	45°	1-1/4"	ICK-U231



UC230-IC / UP230-IC

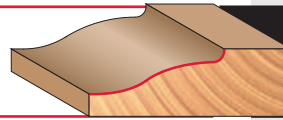


UC231-IC / UP231-IC





## 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



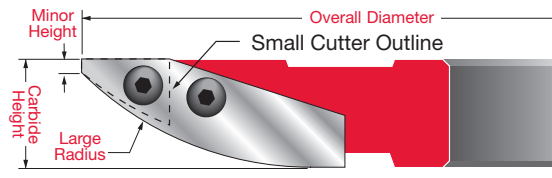
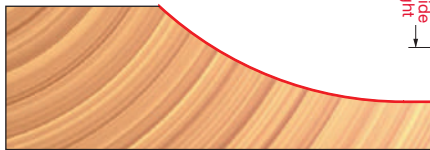
Hardwood

Softwood

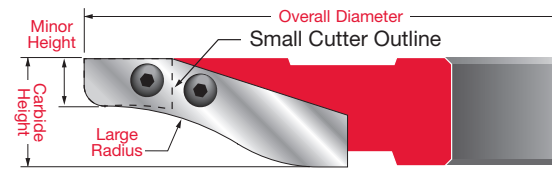
MDF

Plywood

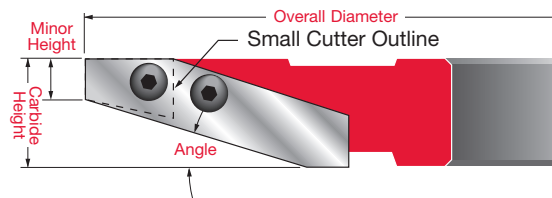
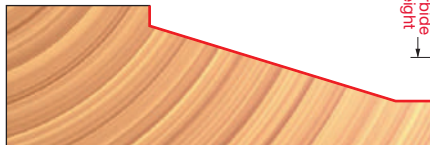
UC209-IC / UP209-IC



UC210-IC / UP210-IC



UC211-IC / UP211-IC

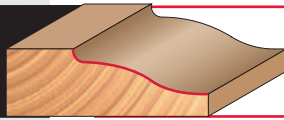


"#" Determines Bore Size  
See Bushing & Rub Collars  
for Bore Selection

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

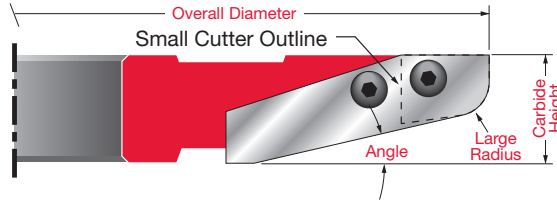


Hardwood    Softwood

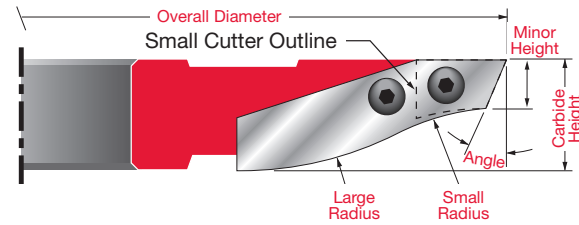


MDF    Plywood

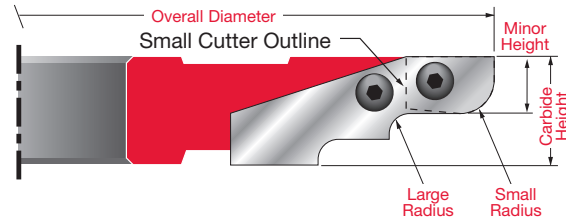
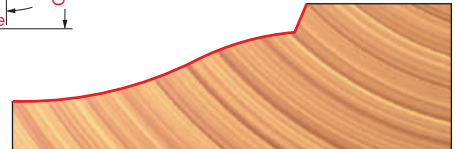
SHAPER CUTTERS



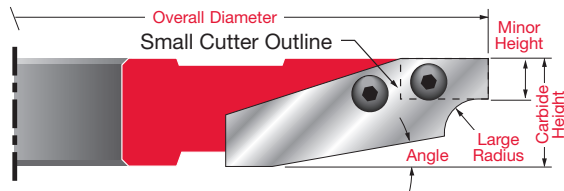
UC212-IC / UP212-IC



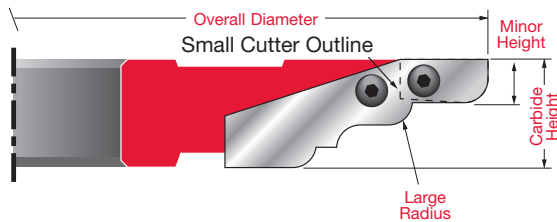
UC213-IC / UP213-IC



UP214-IC



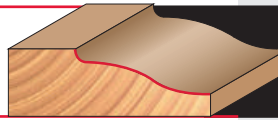
UC215-IC / UP215-IC



UP216-IC



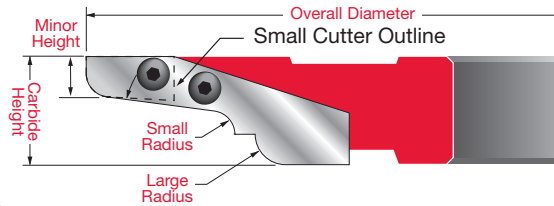
# 2+2 Advanced Cutter Design For 3/4" Stock



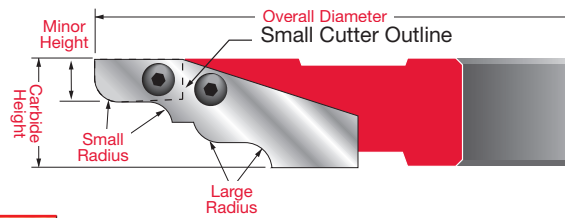
# CARBIDE INSERT CUTTER

CONTINUED

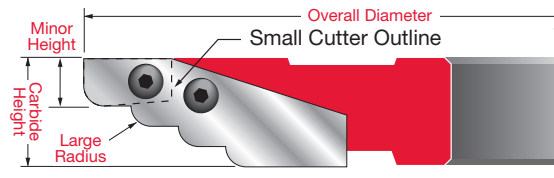
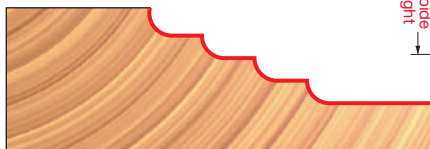
UP217-IC



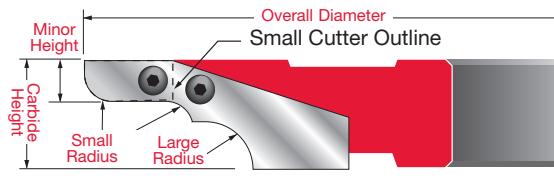
UP218-IC



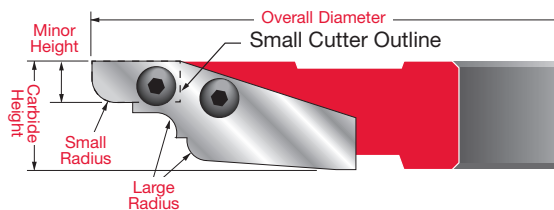
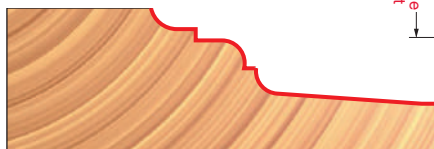
UP219-IC



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

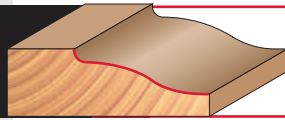
Softwood

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



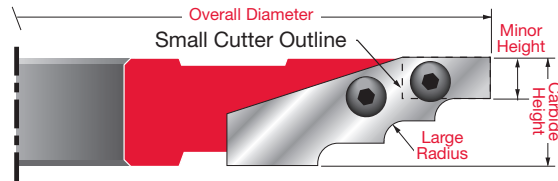
Hardwood

Softwood

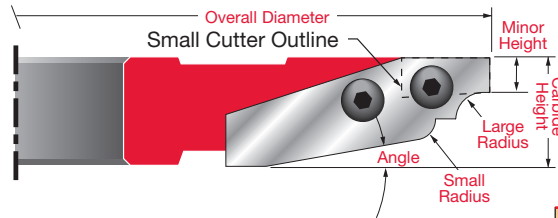
MDF

Plywood

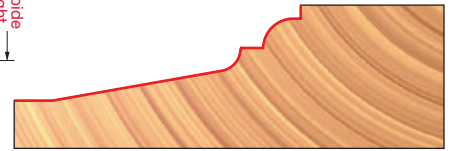
SHAPER CUTTERS



UP222-IC



UC223-IC / UP223-IC



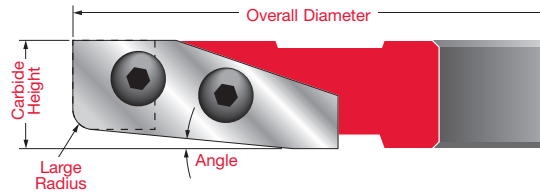
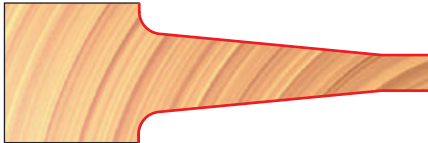
## 2+2 Advanced Cutter Design For Double-Sided Panels



## 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

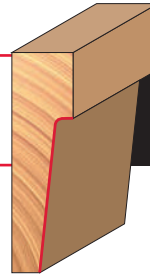
### APPLICATION

Ideal for double-sided raised panel interior and exterior doors

### MATERIALS



## Vertical Insert Raised Panel Cutter

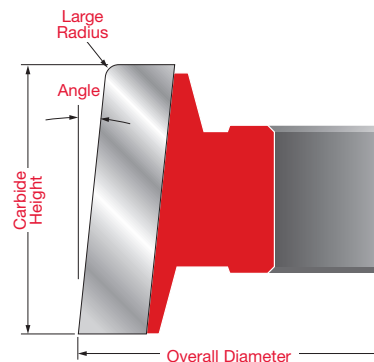


## CARBIDE INSERT CUTTER

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

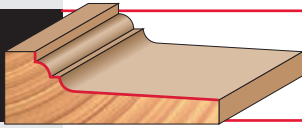
Provide a full profile reveal, while keeping cutter diameter to a minimum. This reduces the stress on the spindle and will work well on lower powered shapers.

### 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



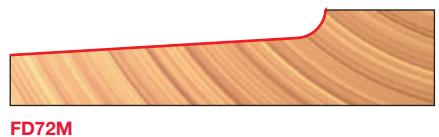
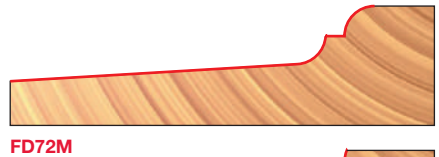
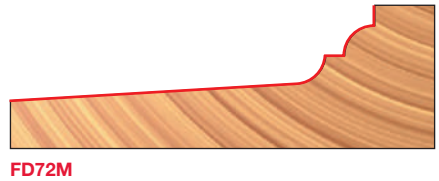
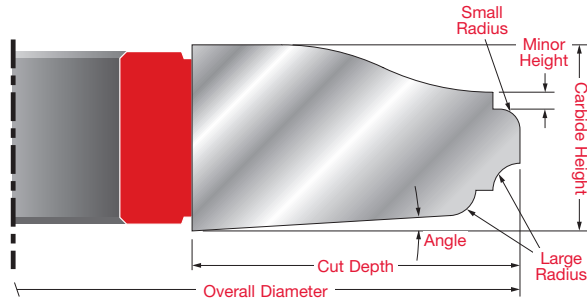
Hardwood

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"



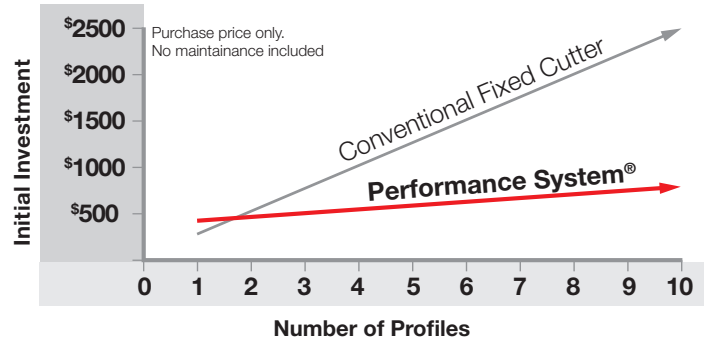
# PERFORMANCE ADVANTAGE

## FREUD PERFORMANCE SYSTEM® SHAPER CUTTERS

### The Performance System® **Cost Advantage** Over Conventional Fixed Cutters

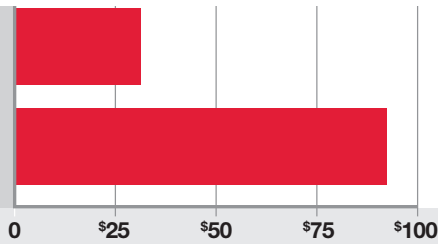
#### Cost Per Profile

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

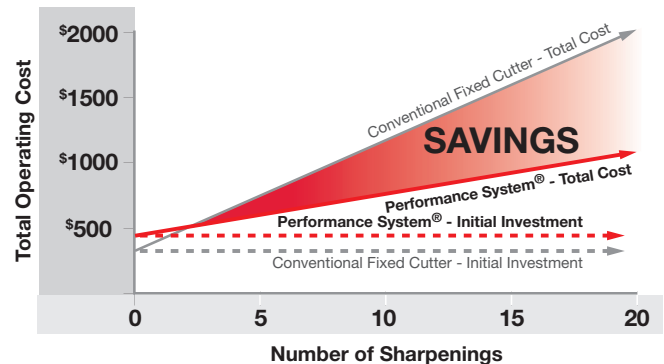


#### Operating Cost Per Sharpening

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

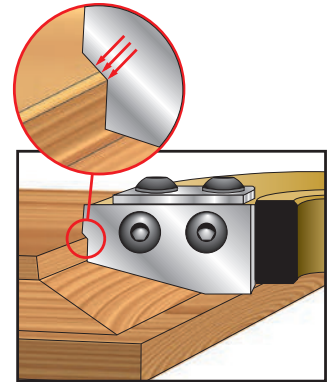
## RP1000 & RP2000 Panel Raising Systems



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

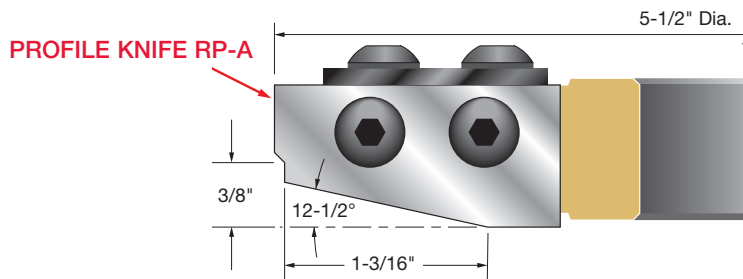


## Profile Knife RP-A

# 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

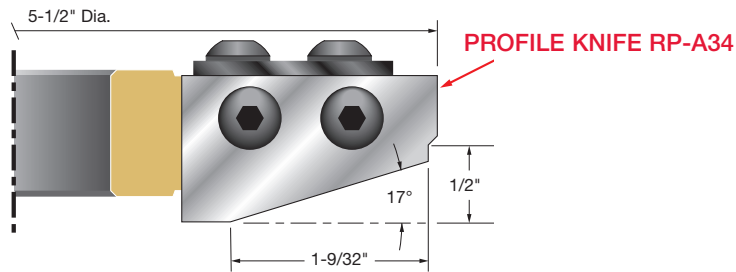
Raising 3/4" thick panels with 1/4" tongues. When used with 3/4" rail and stiles, the panel will extend outside the door frame. The specially designed knife removes all splinters on cross grain cuts.

## MATERIALS



## Profile Knife RP-A34

Uses: Knife RP-A34 and Head RP1000



# PERFORMANCE SYSTEM® CUTTERS

## Profile Knife RP-B

## USE IN



Shaper Machine

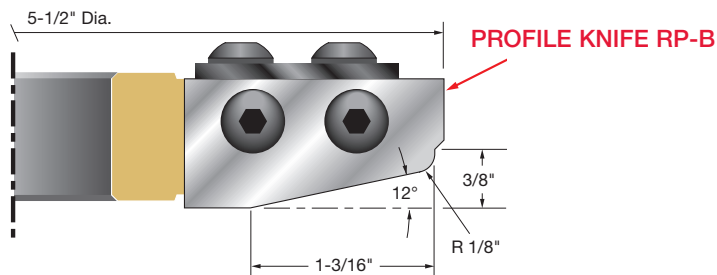
## APPLICATION

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

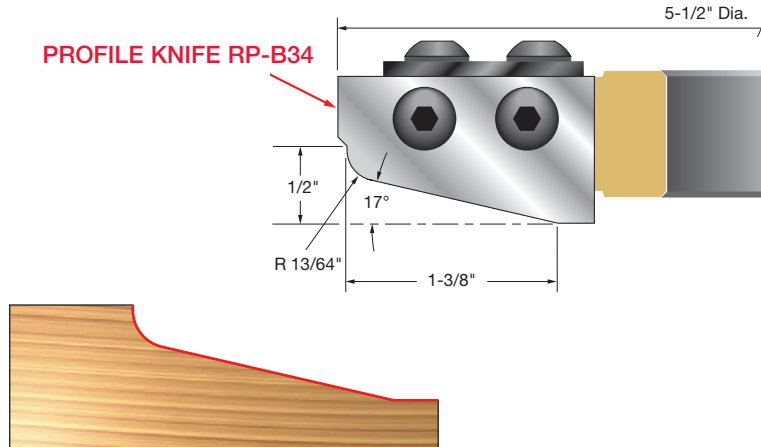


Uses: Knife RP-B and Head RP1000



## Profile Knife RP-B34

Uses: Knife RP-B34 and Head RP1000



## PERFORMANCE SYSTEM® CUTTERS

### USE IN



Shaper Machine

### APPLICATION

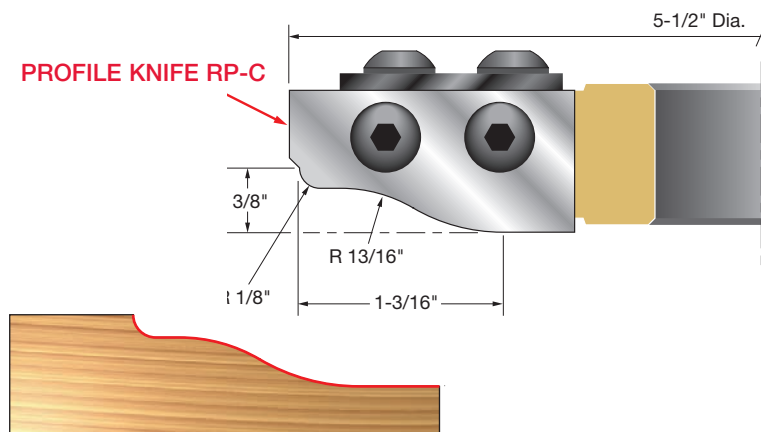
Raising 3/4" thick panels with 1/4" tongues. When used with 3/4" rail and stiles, the panel will extend outside the door frame. The specially designed knife removes all splinters on cross grain cuts.

### 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

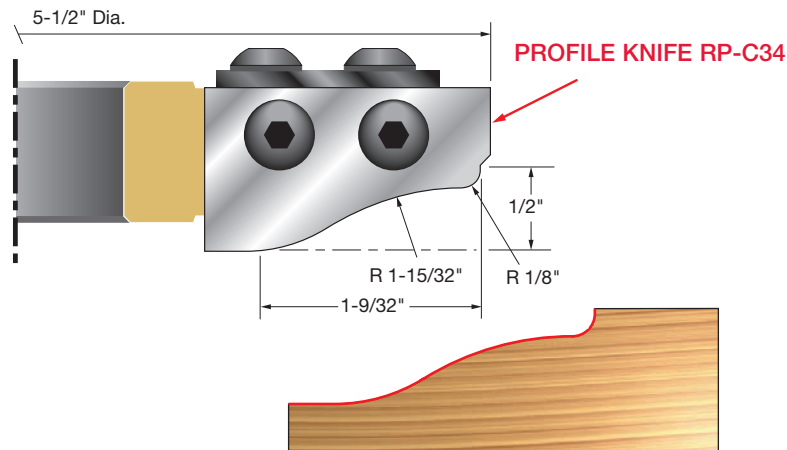
Raising 3/4" thick panels with 1/4" tongues. When used with 3/4" rail and stiles, the panel will extend outside the door frame. The specially designed knife removes all splinters on cross grain cuts.

## MATERIALS



## Profile Knife RP-C34

Uses: Knife RP-C34 and Head RP1000



SHAPER CUTTERS

# PERFORMANCE SYSTEM® CUTTERS

## Profile Knife RP-D

## USE IN



Shaper Machine

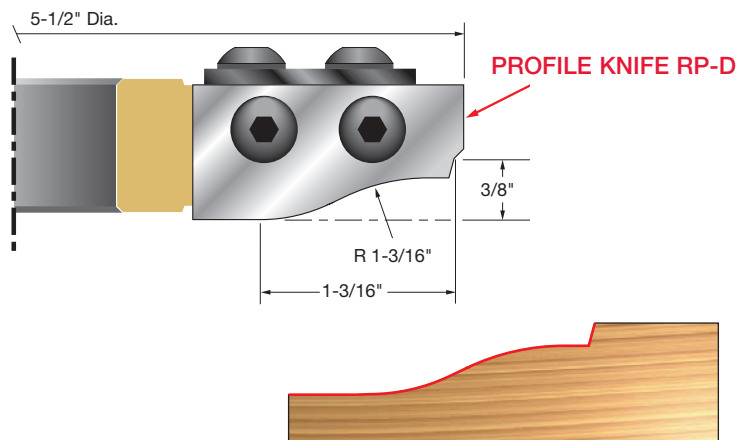
## APPLICATION

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

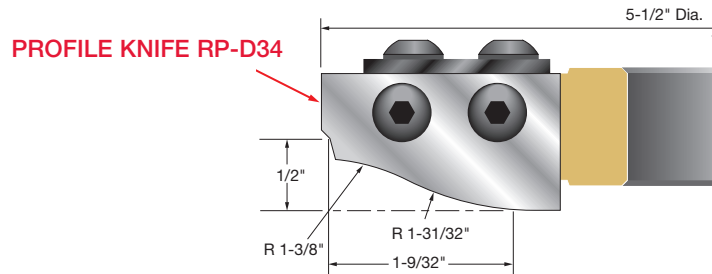


Uses: Knife RP-D and Head RP1000



## Profile Knife RP-D34

Uses: Knife RP-D34 and Head **RP1000**



## PERFORMANCE SYSTEM® CUTTERS

### USE IN



Shaper Machine

### APPLICATION

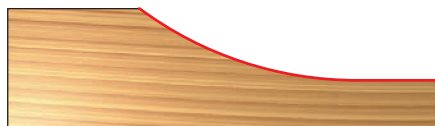
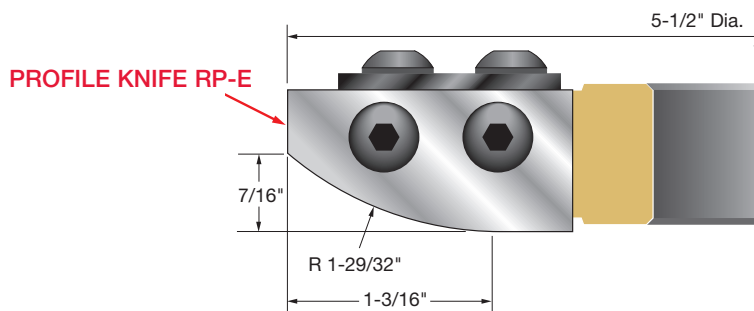
Raising 3/4" thick panels with 1/4" tongues. When used with 3/4" rail and stiles, the panel will extend outside the door frame. The specially designed knife removes all splinters on cross grain cuts.

### 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

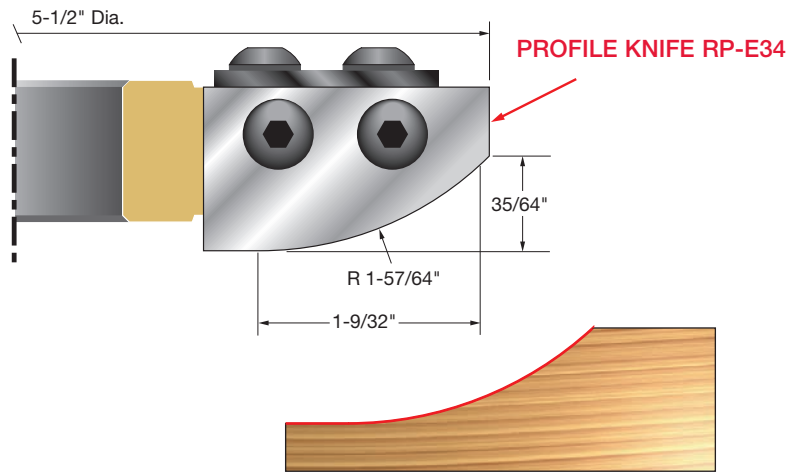


MDF

Plywood

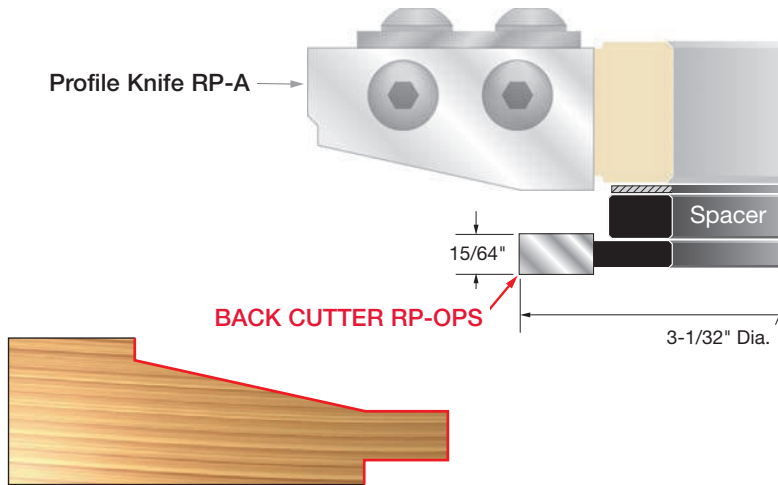
## Profile Knife RP-E34

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

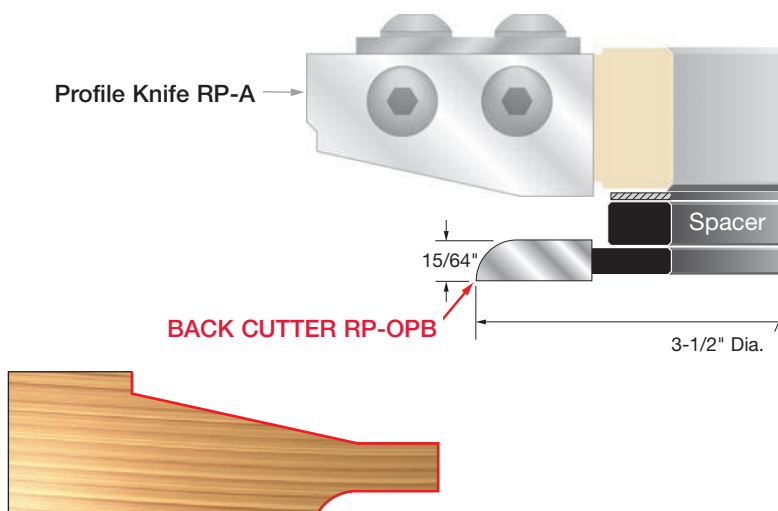
Designed to be used with knives RP-A, RP-B, RP-C, RP-D, or RP-E on the RP1000 head. This allows the use of 3/4" to 13/16" thick panels while maintaining a 1/4" tongue.

### 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

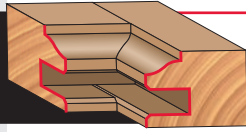
Softwood

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



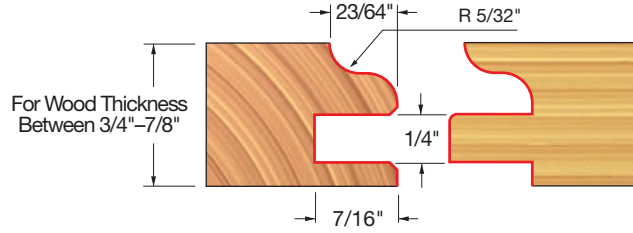
Hardwood

Softwood

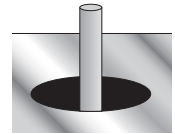
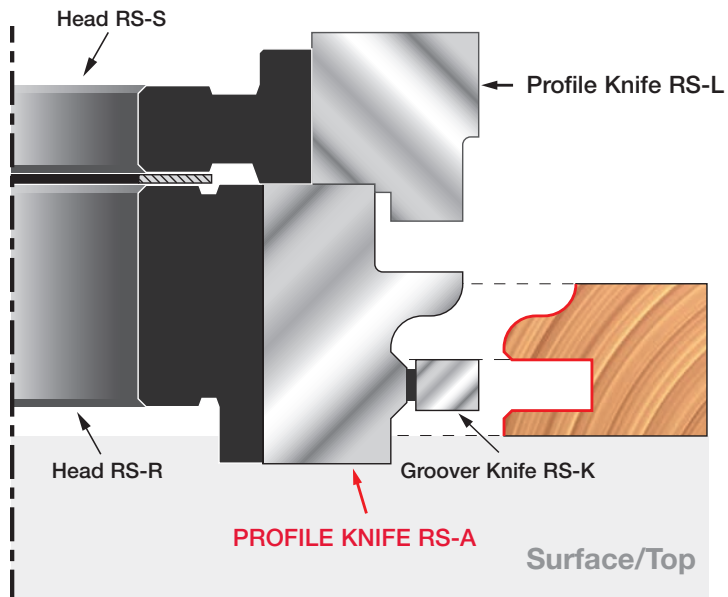
MDF

Plywood

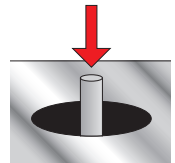
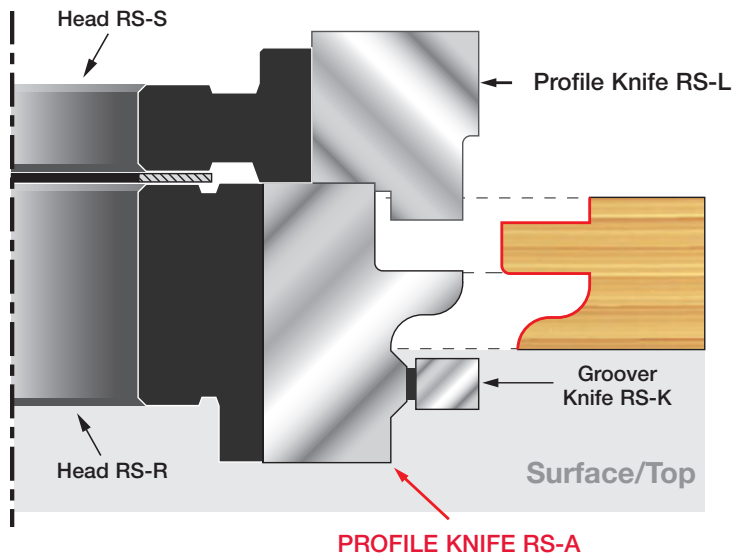
SHAPER CUTTERS



Uses: Knife RS-A, Knife RS-L, Head RS-R, and Head RS-S

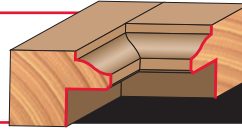


Spindle in Starting Position for Profile Cut

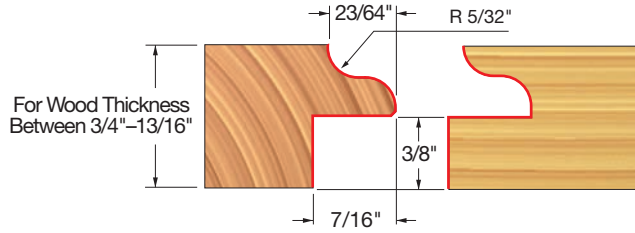


Spindle Lowered for Cope Cut

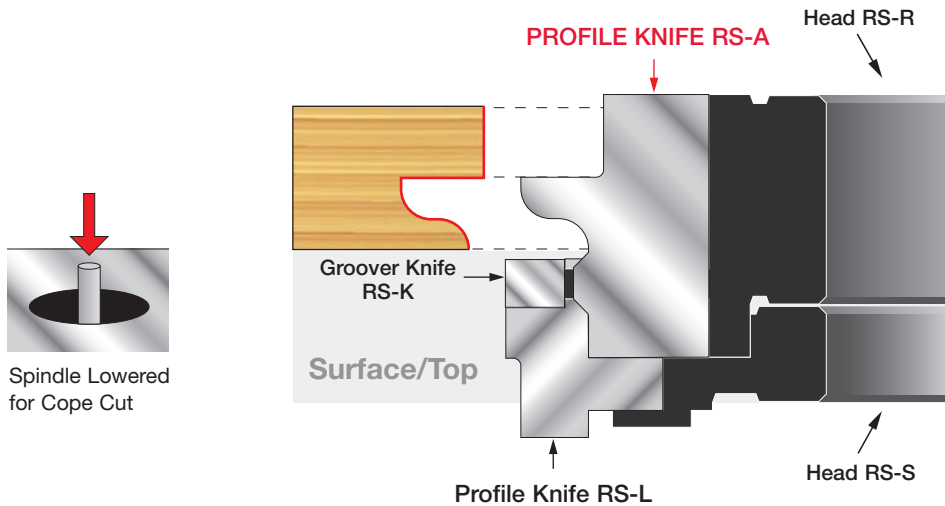
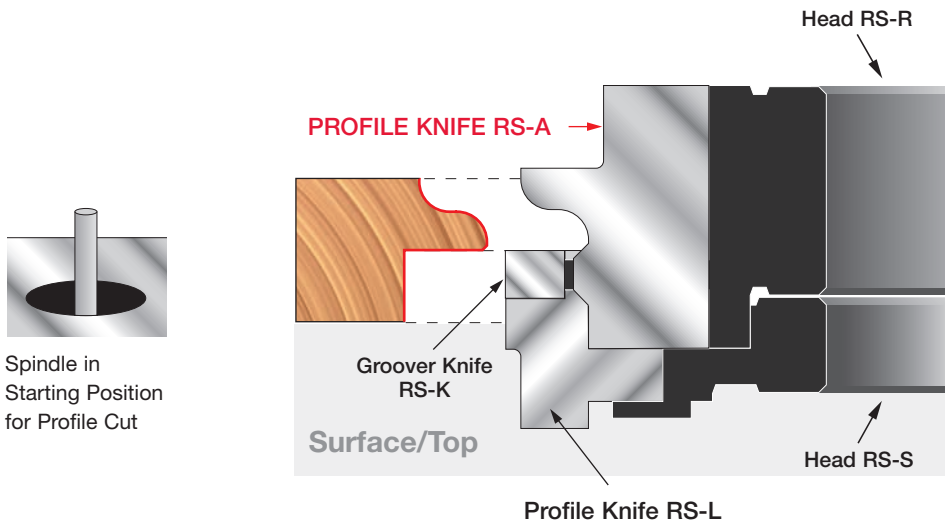
# Profile Knife RS-A Glass Panel Door Set-Up



# PERFORMANCE SYSTEM® CUTTERS



Uses: Knife RS-A, Knife RS-L, Head RS-R, and Head RS-S



## USE IN



Shaper Machine

## APPLICATION

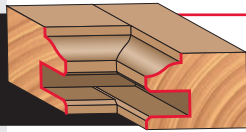
Allows for the insertion and removal of a glass panel on a rabbeted groove. Use a small molding to hold glass in place. No shimming should be needed.

## 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



Hardwood

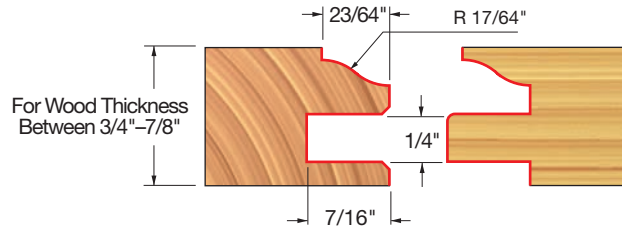
Softwood



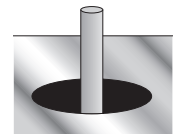
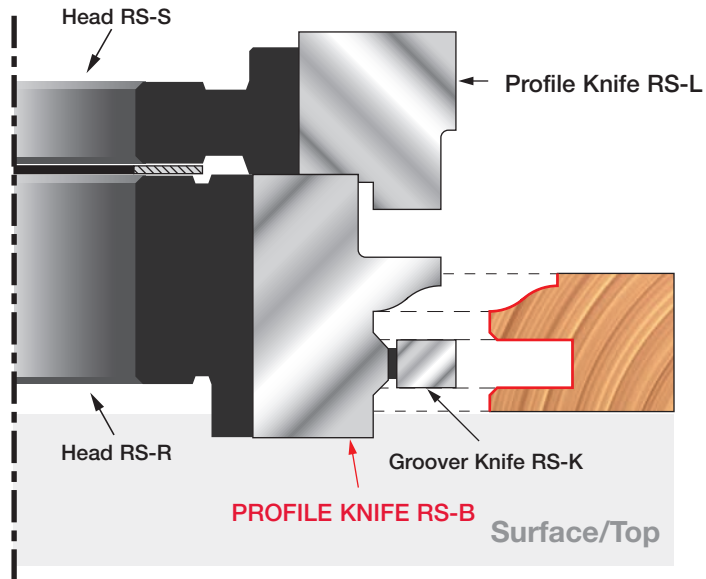
MDF



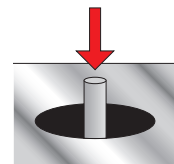
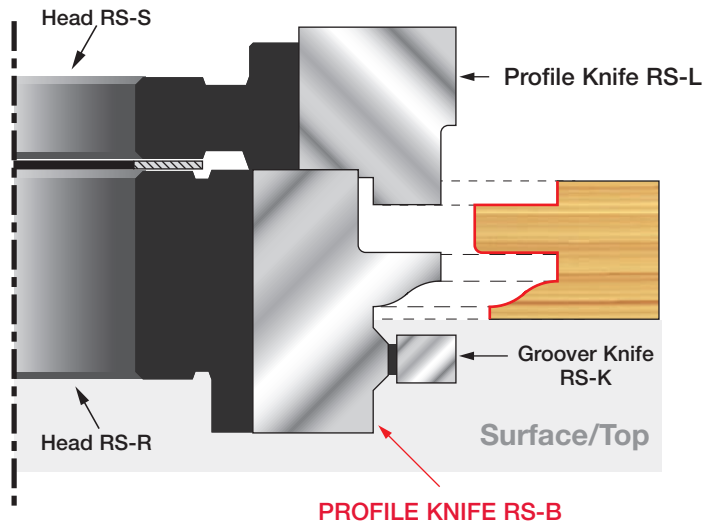
Plywood



Uses: Knife RS-B, Knife RS-L, Head RS-R, and Head RS-S



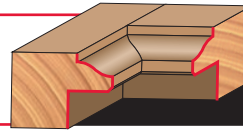
Spindle in Starting Position for Profile Cut



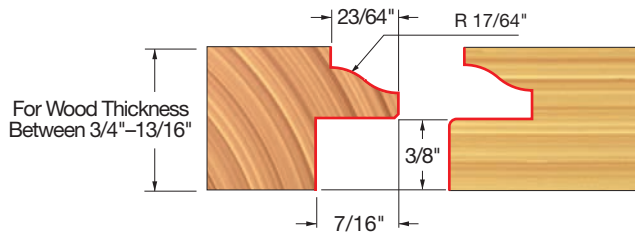
Spindle Lowered for Cope Cut

SHAPER CUTTERS

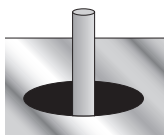
# Profile Knife RS-B Glass Panel Door Set-Up



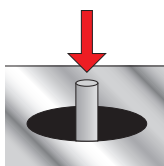
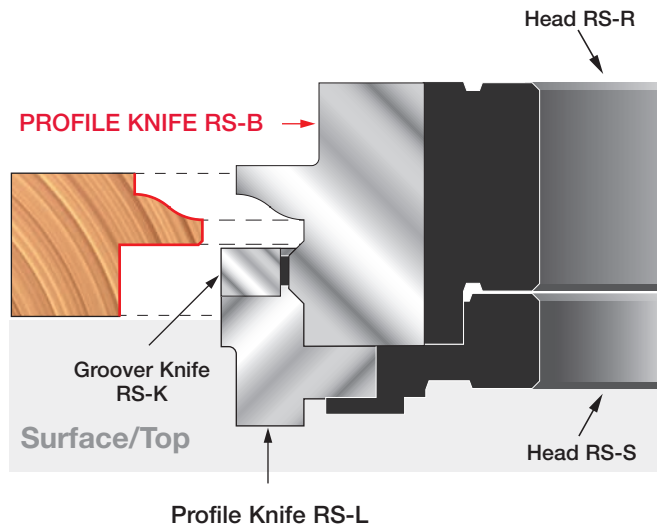
# PERFORMANCE SYSTEM® CUTTERS



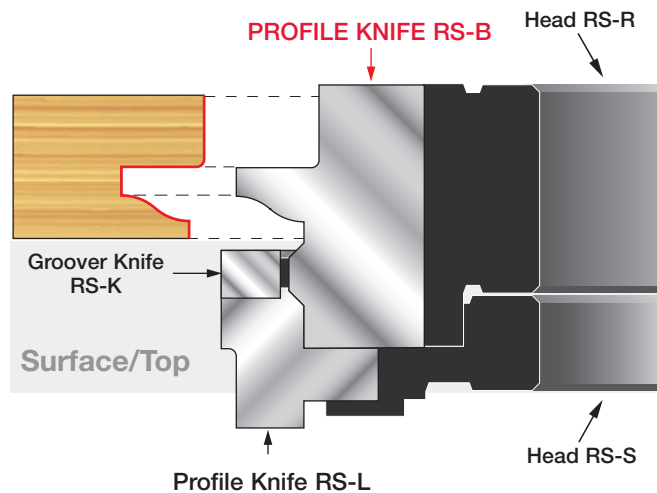
Uses: Knife RS-B, Knife RS-L, Head RS-R, and Head RS-S



Spindle in Starting Position for Profile Cut



Spindle Lowered for Cope Cut



## USE IN



Shaper Machine

## APPLICATION

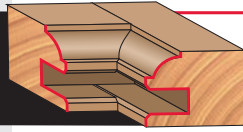
Allows for the insertion and removal of a glass panel on a rabbeted groove. Use a small molding to hold glass in place. No shimming should be needed.

## MATERIALS



SHAPER CUTTERS

# PERFORMANCE SYSTEM® CUTTERS



## Profile Knife RS-C Raised Panel Door Set-Up

### USE IN



Shaper Machine

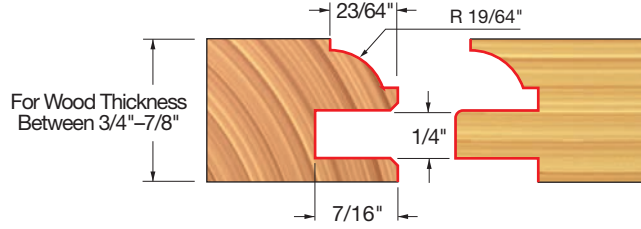
### APPLICATION

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.

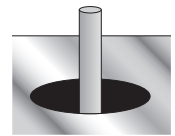
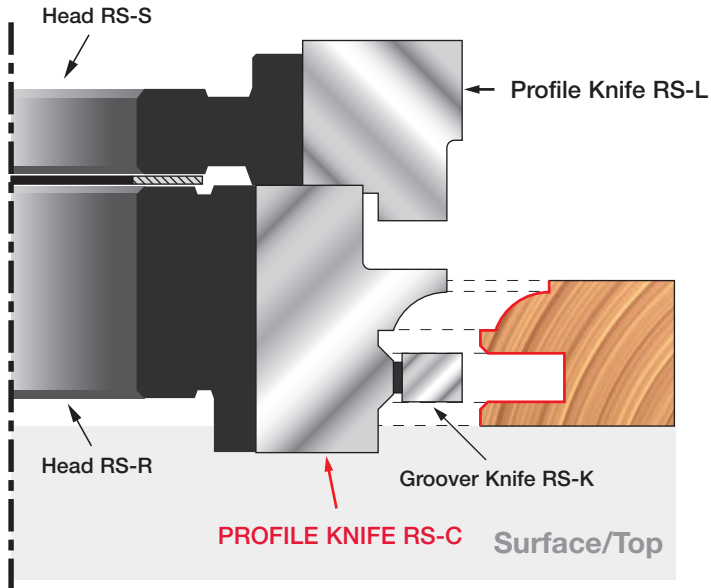
### MATERIALS



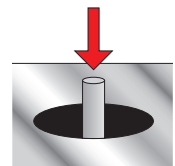
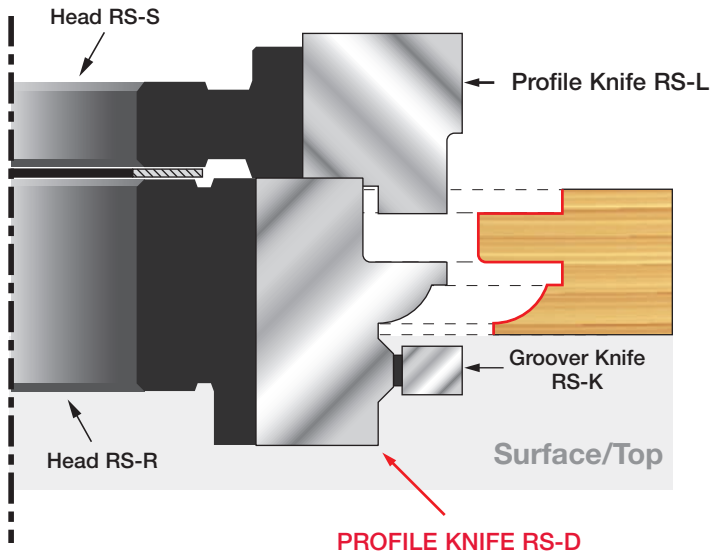
SHAPER CUTTERS



Uses: Knife RS-C, Knife RS-D, Knife RS-L, Head RS-R, and Head RS-S

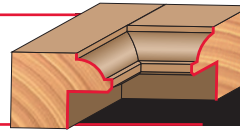


Spindle in Starting Position for Profile Cut

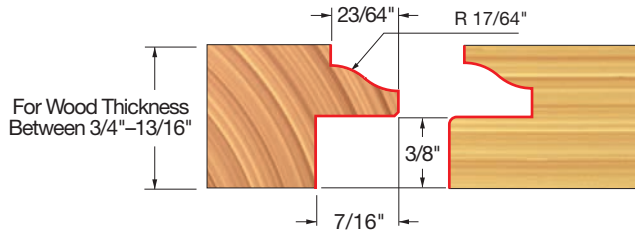


Spindle Lowered for Cope Cut

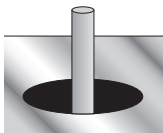
# Profile Knife RS-C Glass Panel Door Set-Up



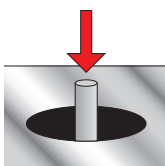
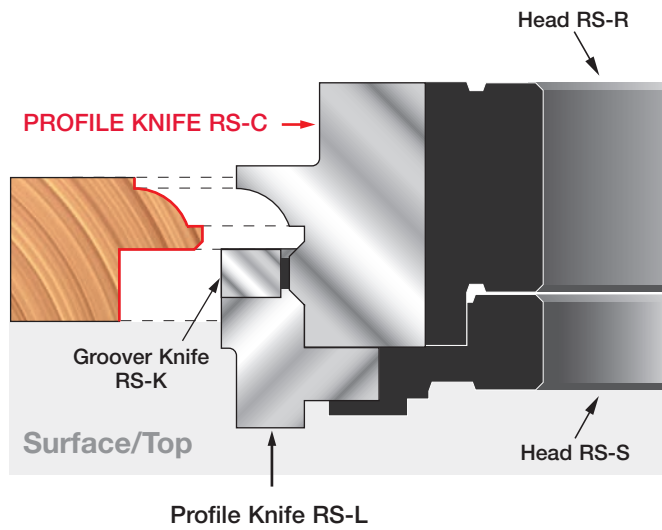
# PERFORMANCE SYSTEM® CUTTERS



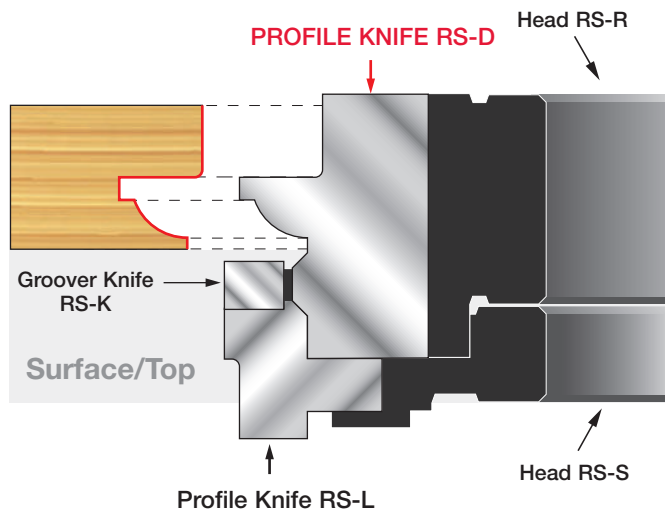
Uses: Knife RS-C, Knife RS-D, Knife RS-L, Head RS-R, and Head RS-S



Spindle in Starting Position for Profile Cut



Spindle Lowered for Cope Cut



## USE IN



Shaper Machine

## APPLICATION

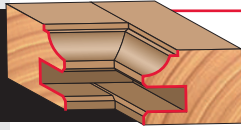
Allows for the insertion and removal of a glass panel on a rabbeted groove. Use a small molding to hold glass in place. No shimming should be needed.

## MATERIALS



SHAPER CUTTERS

# PERFORMANCE SYSTEM® CUTTERS



## Profile Knife RS-D Raised Panel Door Set-Up

### USE IN



Shaper Machine

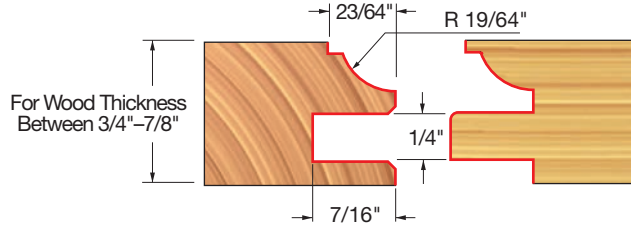
### APPLICATION

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.

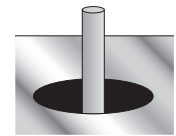
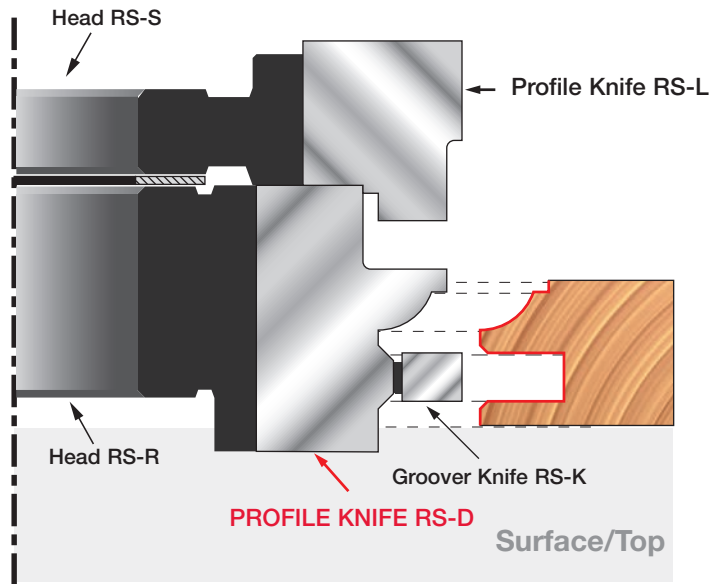
### MATERIALS



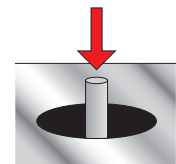
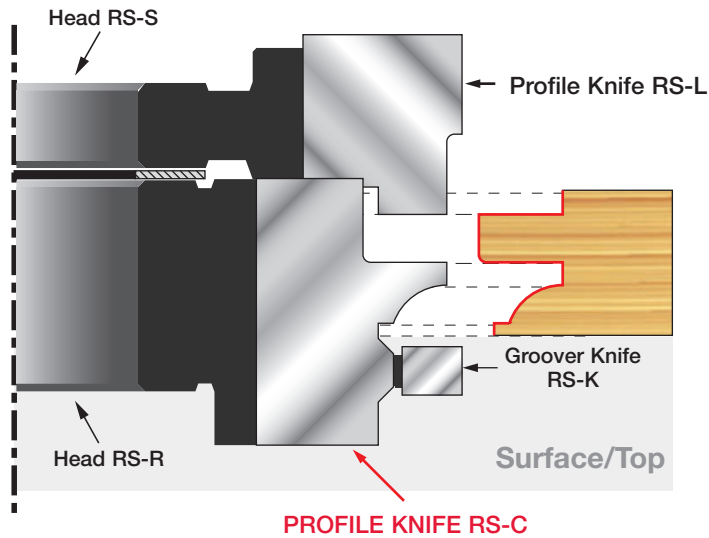
SHAPER CUTTERS



Uses: Knife RS-D, Knife RS-C, Knife RS-L, Head RS-R, and Head RS-S



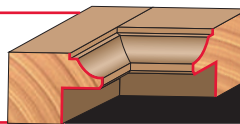
Spindle in Starting Position for Profile Cut



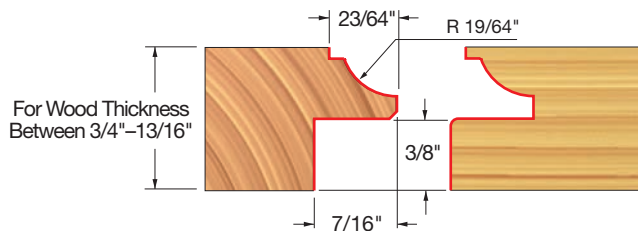
Spindle Lowered for Cope Cut



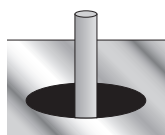
# Profile Knife RS-D Glass Panel Door Set-Up



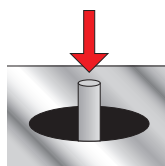
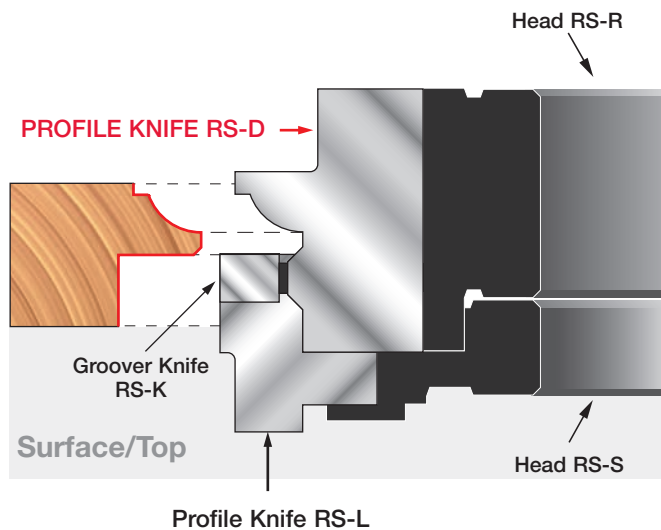
# PERFORMANCE SYSTEM® CUTTERS



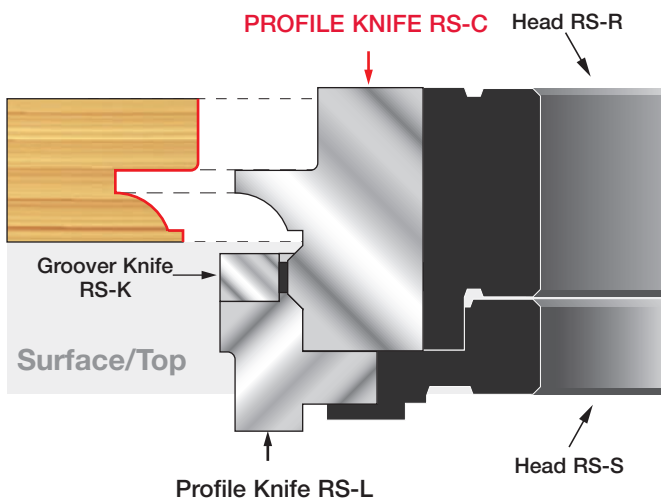
Uses: Knife RS-D, Knife RS-C, Knife RS-L, Head RS-R, and Head RS-S



Spindle in Starting Position for Profile Cut



Spindle Lowered for Cope Cut



## USE IN



Shaper Machine

## APPLICATION

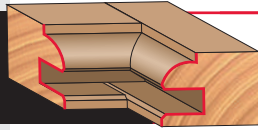
Allows for the insertion and removal of a glass panel on a rabbeted groove. Use a small molding to hold glass in place. No shimming should be needed.

## 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



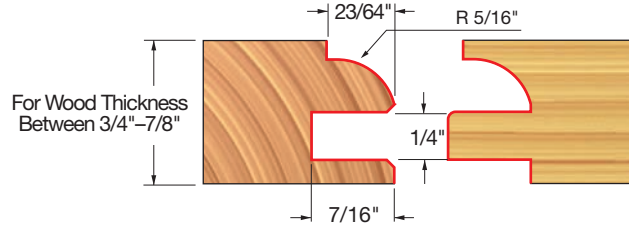
Hardwood

Softwood

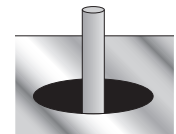
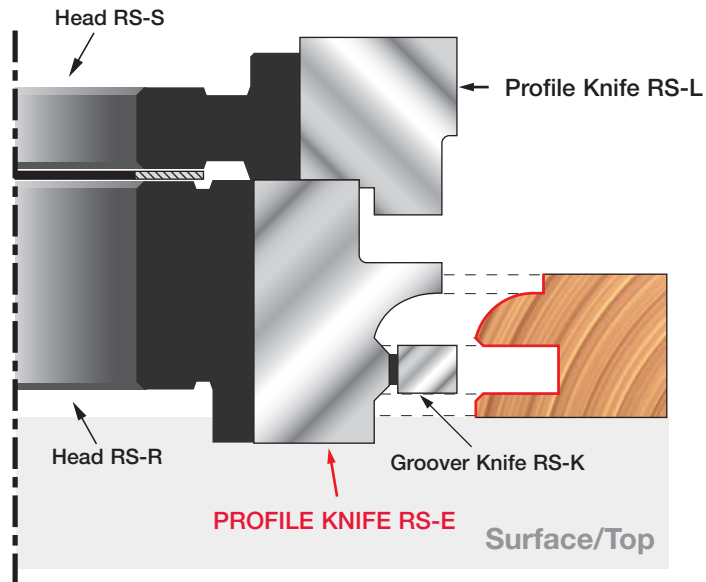
MDF

Plywood

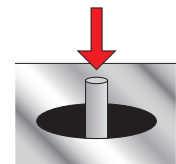
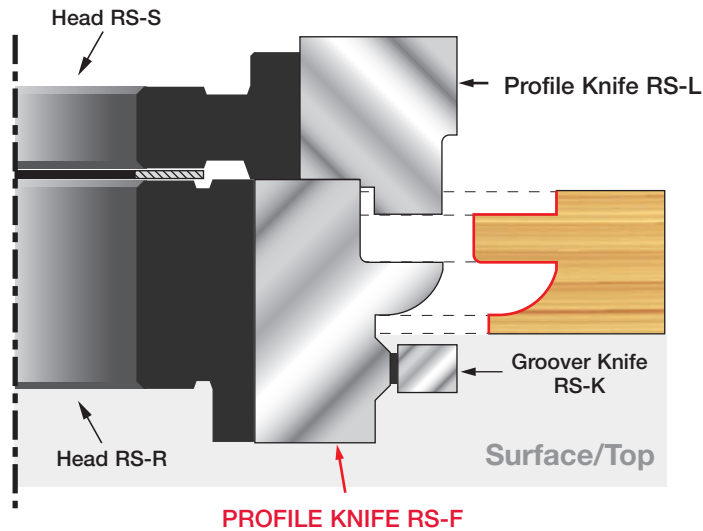
SHAPER CUTTERS



Uses: Knife RS-E, Knife RS-F, Knife RS-L, Head RS-R, and Head RS-S

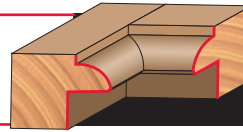


Spindle in Starting Position for Profile Cut

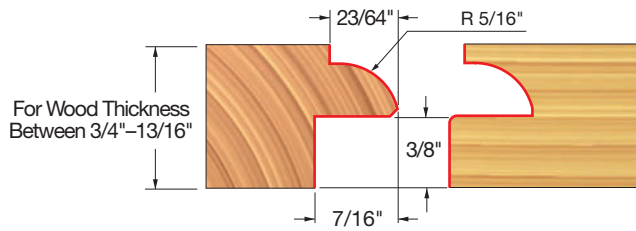


Spindle Lowered for Cope Cut

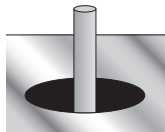
# Profile Knife RS-E Glass Panel Door Set-Up



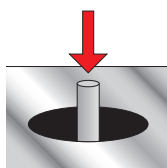
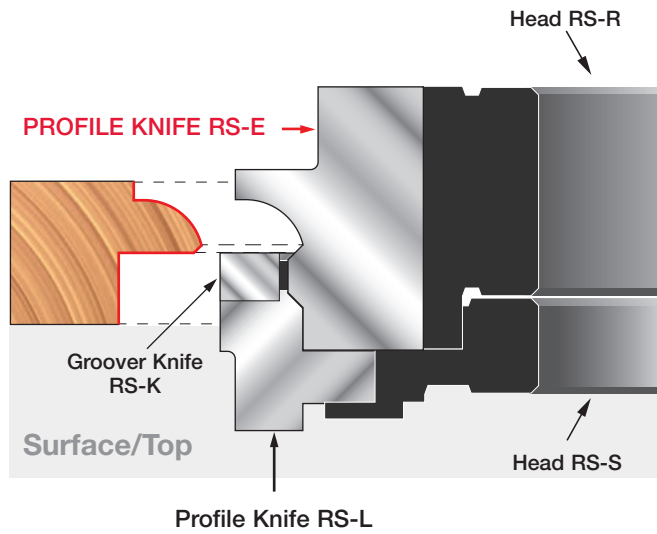
# PERFORMANCE SYSTEM® CUTTERS



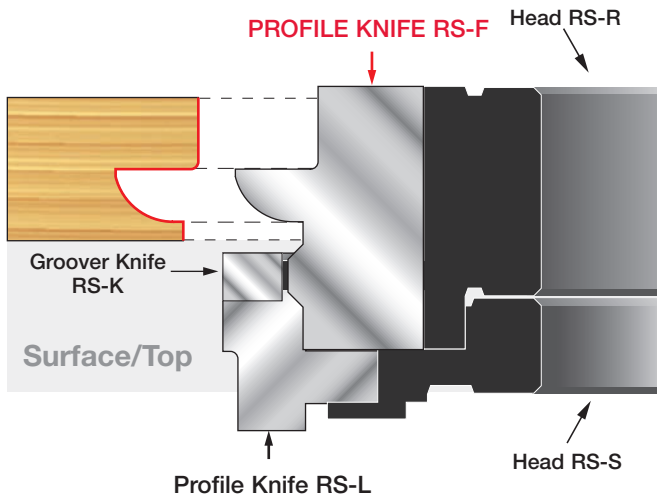
Uses: Knife RS-E, Knife RS-F, Knife RS-L, Head RS-R, and Head RS-S



Spindle in Starting Position for Profile Cut



Spindle Lowered for Cope Cut



## USE IN



Shaper Machine

## APPLICATION

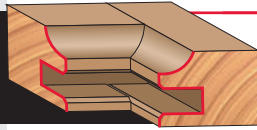
Allows for the insertion and removal of a glass panel on a rabbeted groove. Use a small molding to hold glass in place. No shimming should be needed.

## MATERIALS



SHAPER CUTTERS

# PERFORMANCE SYSTEM® CUTTERS



## Profile Knife RS-F Raised Panel Door Set-Up

### USE IN



Shaper Machine

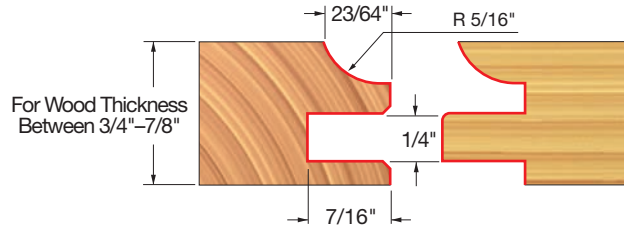
### APPLICATION

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.

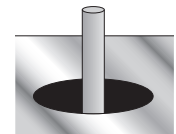
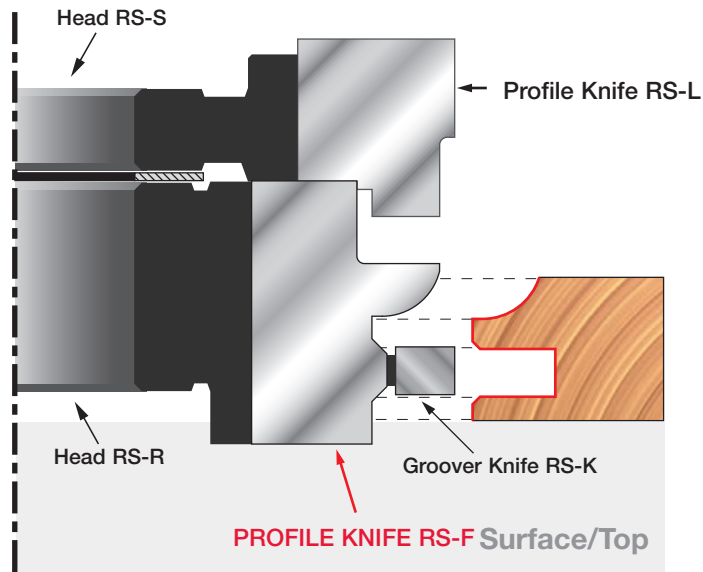
### MATERIALS



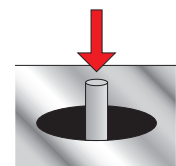
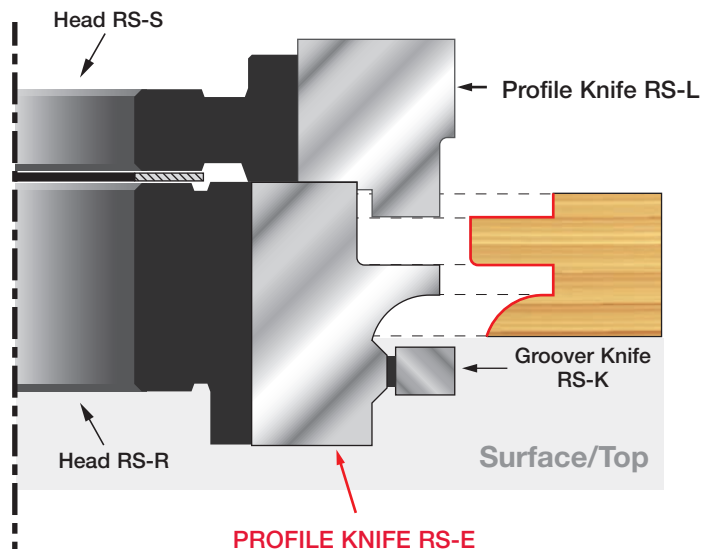
SHAPER CUTTERS



Uses: Knife RS-F, Knife RS-E, Knife RS-L, Head RS-R, and Head RS-S

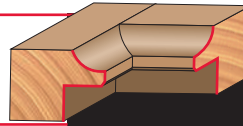


Spindle in Starting Position for Profile Cut

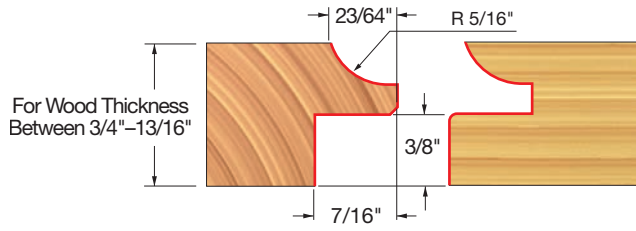


Spindle Lowered for Cope Cut

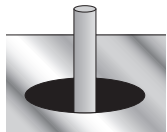
# Profile Knife RS-F Glass Panel Door Set-Up



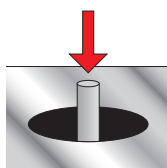
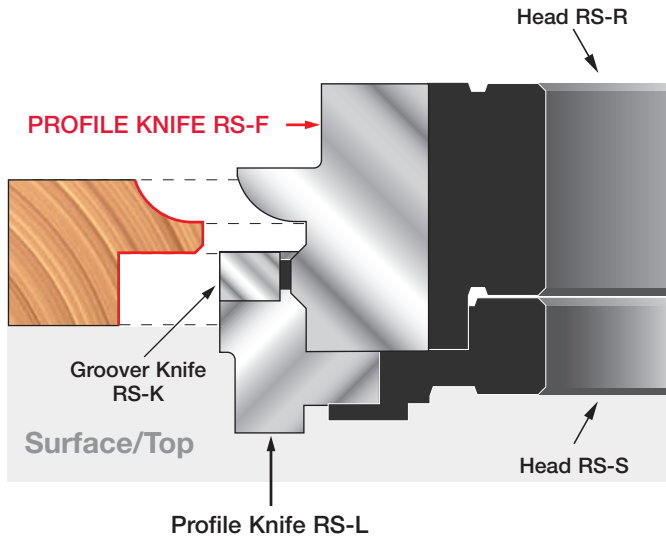
# PERFORMANCE SYSTEM® CUTTERS



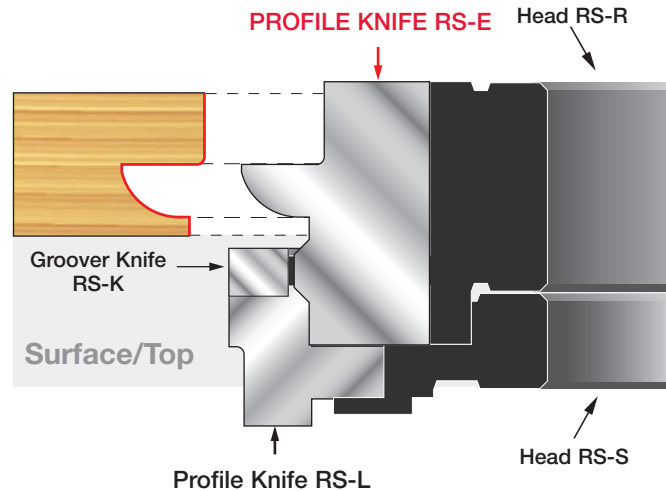
Uses: Knife RS-F, Knife RS-E, Knife RS-L, Head RS-R, and Head RS-S



Spindle in Starting Position for Profile Cut



Spindle Lowered for Cope Cut



## USE IN



Shaper Machine

## APPLICATION

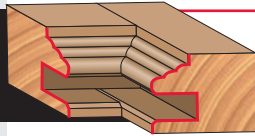
Allows for the insertion and removal of a glass panel on a rabbeted groove. Use a small molding to hold glass in place. No shimming should be needed.

## MATERIALS



SHAPER CUTTERS

# PERFORMANCE SYSTEM® CUTTERS



## Profile Knife RS-G Raised Panel Door Set-Up

### USE IN



Shaper Machine

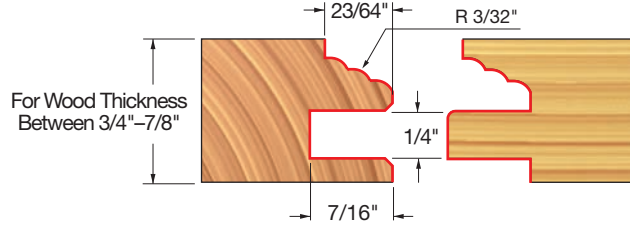
### APPLICATION

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.

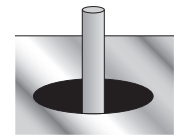
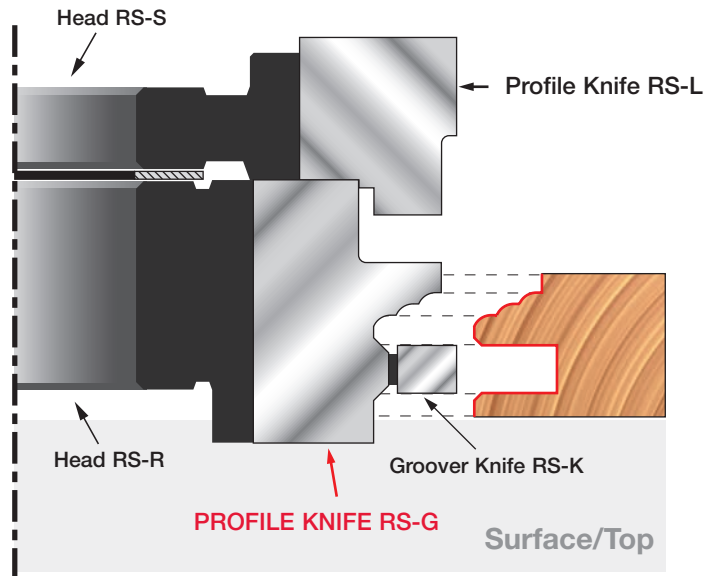
### MATERIALS



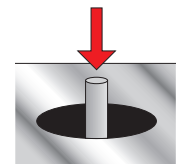
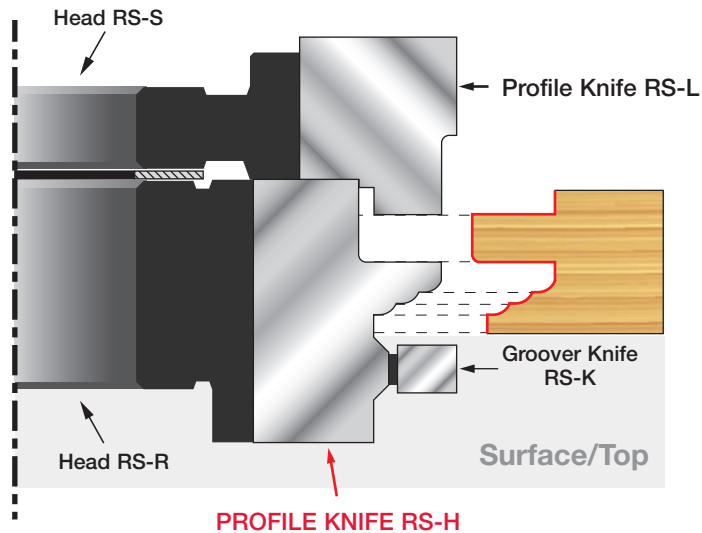
SHAPER CUTTERS



Uses: Knife RS-G, Knife RS-H, Knife RS-L, Head RS-R, and Head RS-S

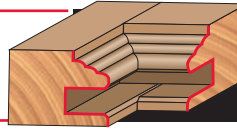


Spindle in Starting Position for Profile Cut

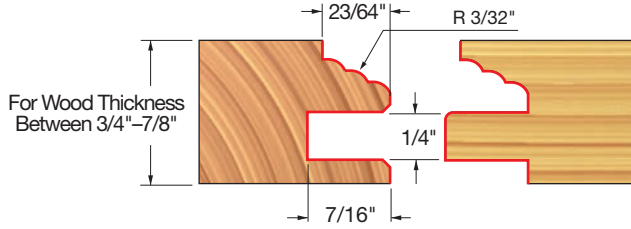


Spindle Lowered for Cope Cut

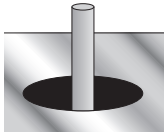
# Profile Knife RS-G Glass Panel Door Set-Up



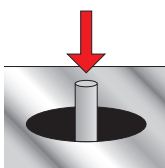
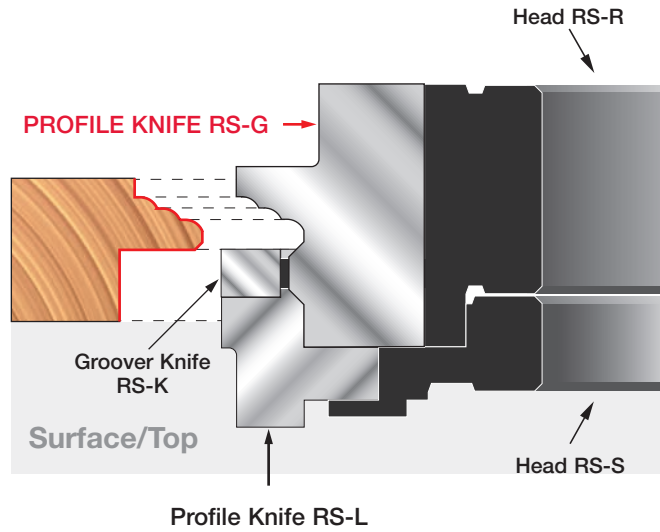
# PERFORMANCE SYSTEM® CUTTERS



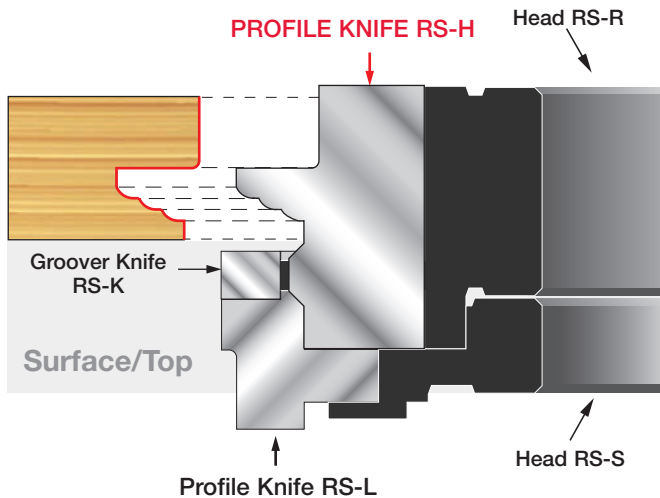
Uses: Knife RS-G, Knife RS-H, Knife RS-L, Head RS-R, and Head RS-S



Spindle in Starting Position for Profile Cut



Spindle Lowered for Cope Cut



## USE IN



Shaper Machine

## APPLICATION

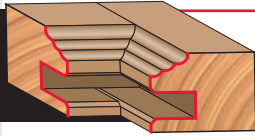
Allows for the insertion and removal of a glass panel on a rabbeted groove. Use a small molding to hold glass in place. No shimming should be needed.

## 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

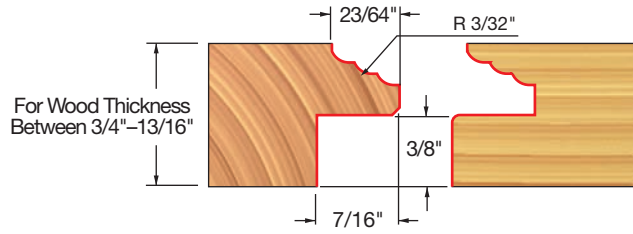


Hardwood

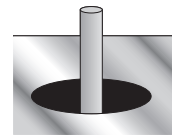
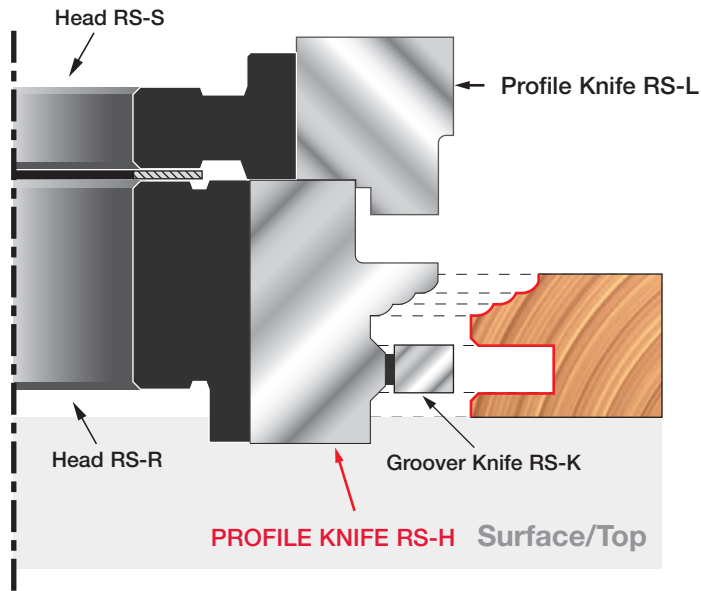
Softwood

MDF

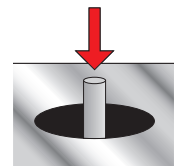
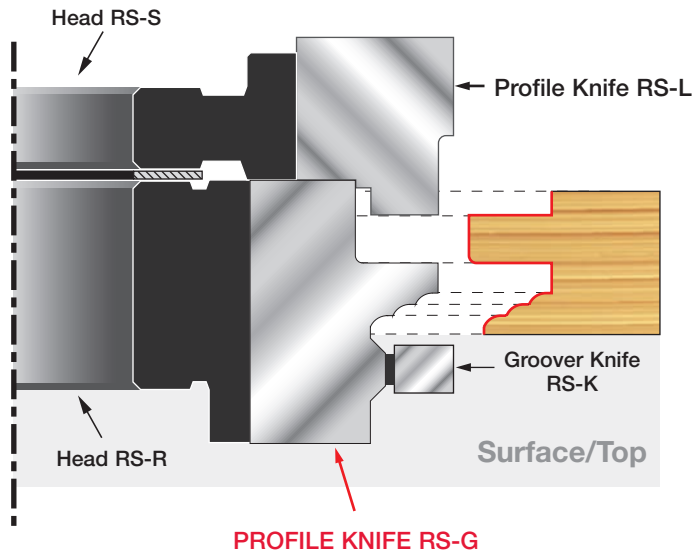
Plywood



Uses: Knife RS-H, Knife RS-G, Knife RS-L, Head RS-R, and Head RS-S



Spindle in Starting Position for Profile Cut

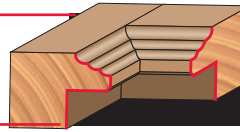


Spindle Lowered for Cope Cut

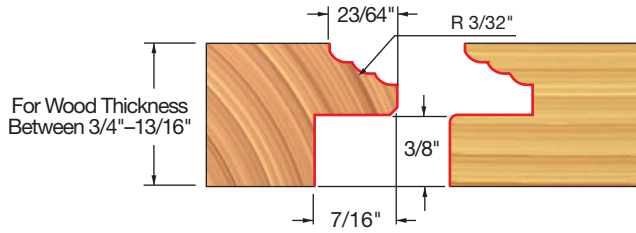
SHAPER CUTTERS



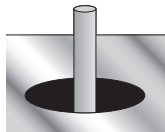
# Profile Knife RS-H Glass Panel Door Set-Up



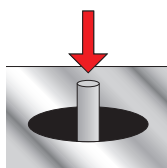
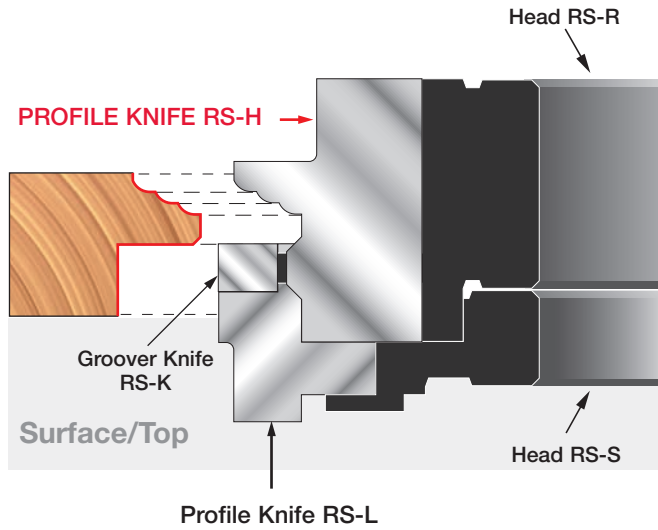
# PERFORMANCE SYSTEM® CUTTERS



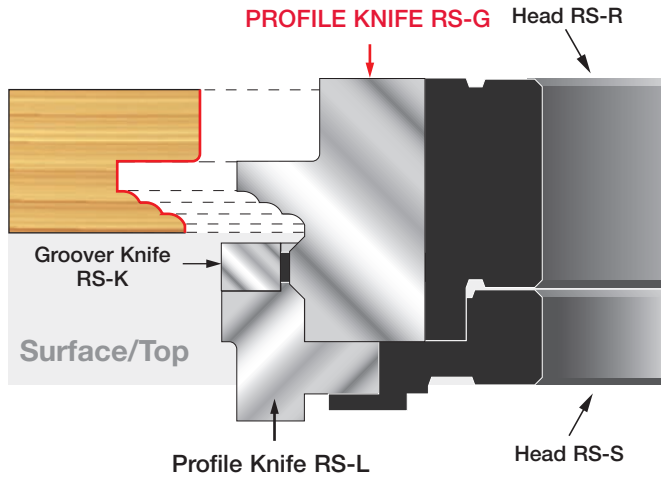
Uses: Knife RS-H, Knife RS-G, Knife RS-L, Head RS-R, and Head RS-S



Spindle in Starting Position for Profile Cut



Spindle Lowered for Cope Cut



## USE IN



Shaper Machine

## APPLICATION

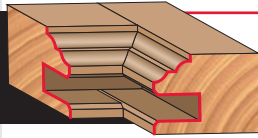
Allows for the insertion and removal of a glass panel on a rabbeted groove. Use a small molding to hold glass in place. No shimming should be needed.

## 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

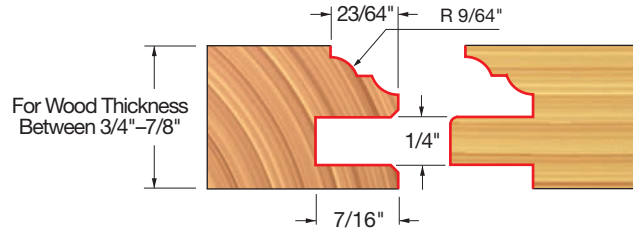


Hardwood

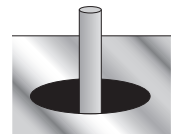
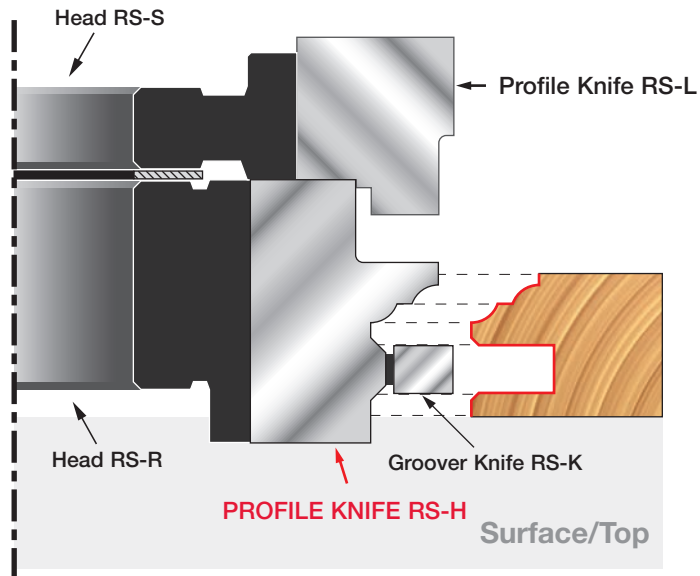
Softwood

MDF

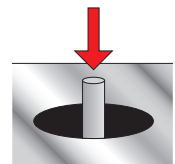
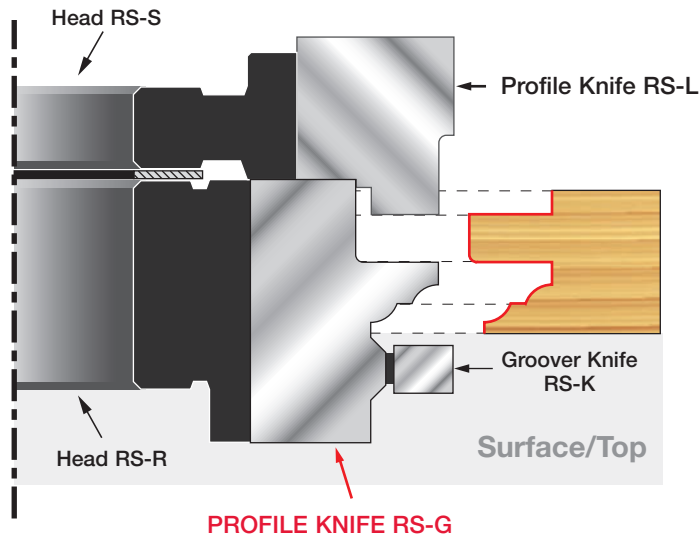
Plywood



Uses: Knife RS-I, Knife RS-L, Head RS-R, and Head RS-S



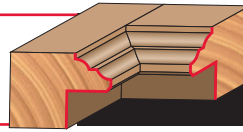
Spindle in Starting Position for Profile Cut



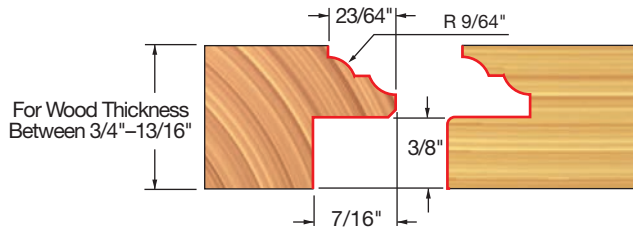
Spindle Lowered for Cope Cut

SHAPER CUTTERS

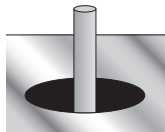
# Profile Knife RS-I Glass Panel Door Set-Up



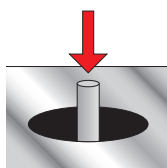
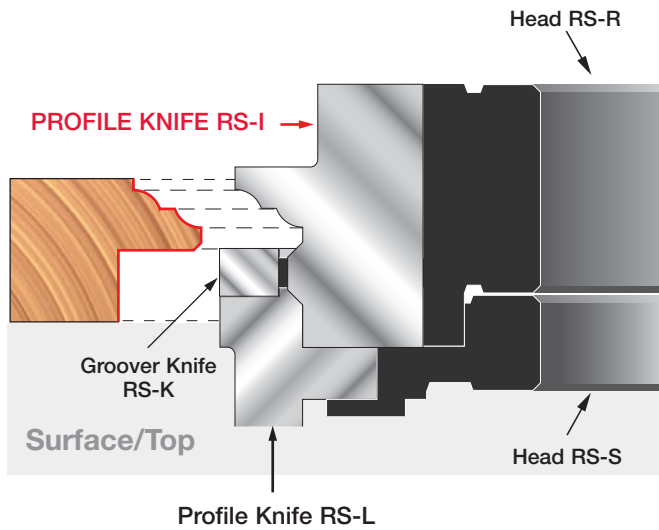
# PERFORMANCE SYSTEM® CUTTERS



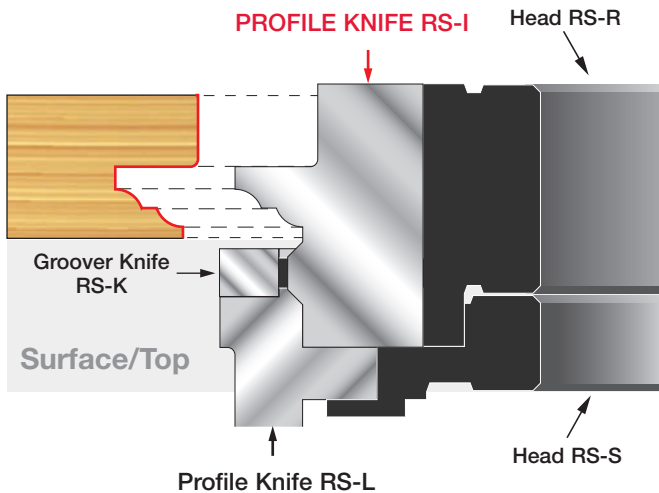
Uses: Knife RS-I, Knife RS-L, Head RS-R, and Head RS-S



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



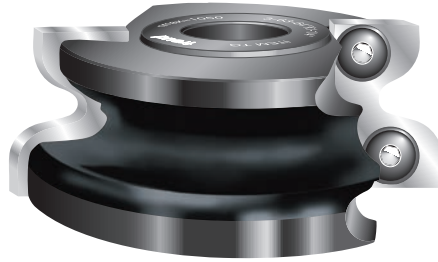
MDF



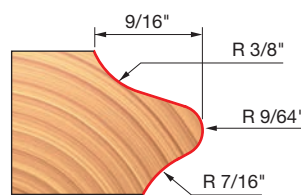
Plywood

## One Piece Door Edge Profile Cutters

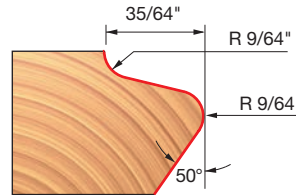
ITEM NUMBER	OVERALL DIA.	CARBIDE HEIGHT	BORE DIAMETER
DE-1000	3-63/64"	1-37/64"	1-1/4"



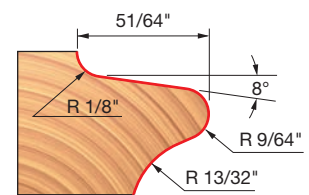
Cutterhead DE-1000



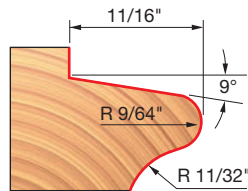
**PROFILE KNIFE DE-A**  
HEAD DE-1000



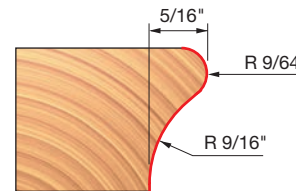
**PROFILE KNIFE DE-B**  
HEAD DE-1000



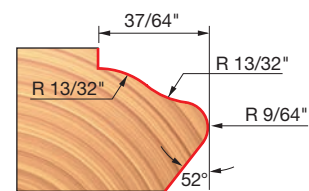
**PROFILE KNIFE DE-C**  
HEAD DE-1000



**PROFILE KNIFE DE-D**  
HEAD DE-1000



**PROFILE KNIFE DE-E**  
HEAD DE-1000



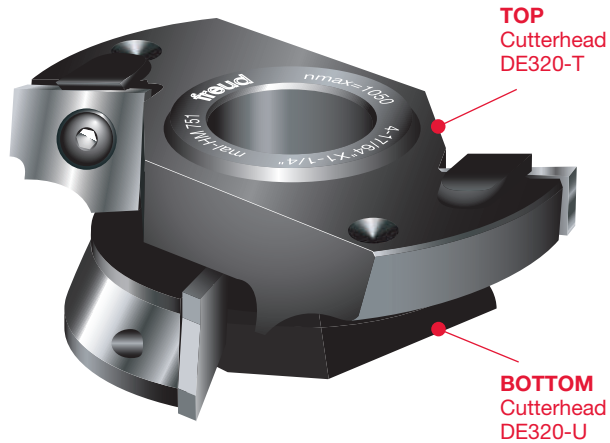
**PROFILE KNIFE DE-F**  
HEAD DE-1000

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



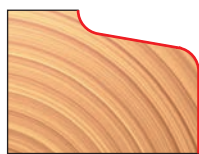
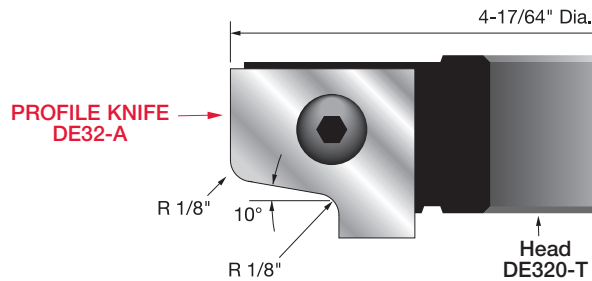
Hardwood

Softwood

MDF

Plywood

### TOP PROFILE CUTTER KNIVES FOR CUTTERHEAD DE320-T

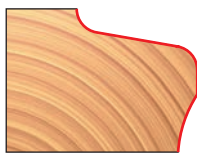


**TOP:** Profile Knife DE32-A  
Head DE320-T



**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

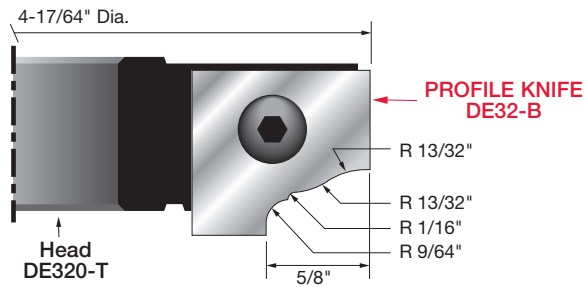
MDF

Plywood

SHAPER CUTTERS

## Two Piece 32mm Door Edge Profile Cutters

CONTINUED

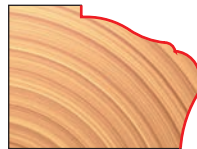


**TOP:** Profile Knife DE32-B  
Head DE320-T



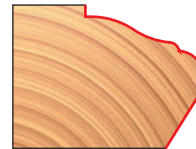
**TOP:** Profile Knife DE32-B  
Head DE320-T

**BOTTOM:** Profile Knife DE32-J  
Head DE320-U



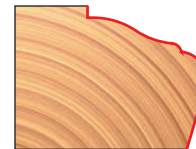
**TOP:** Profile Knife DE32-B  
Head DE320-T

**BOTTOM:** Profile Knife DE32-K  
Head DE320-U



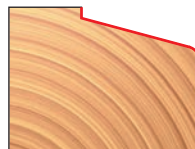
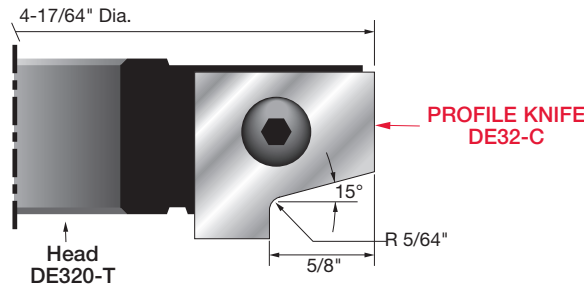
**TOP:** Profile Knife DE32-B  
Head DE320-T

**BOTTOM:** Profile Knife DE32-L  
Head DE320-U



**TOP:** Profile Knife DE32-B  
Head DE320-T

**BOTTOM:** Profile Knife DE32-M  
Head DE320-U

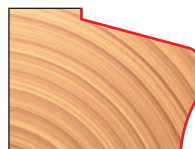


**TOP:** Profile Knife DE32-C  
Head DE320-T



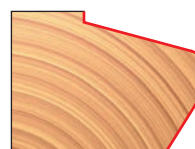
**TOP:** Profile Knife DE32-C  
Head DE320-T

**BOTTOM:** Profile Knife DE32-J  
Head DE320-U



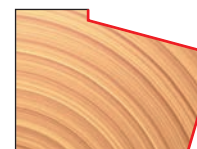
**TOP:** Profile Knife DE32-C  
Head DE320-T

**BOTTOM:** Profile Knife DE32-K  
Head DE320-U



**TOP:** Profile Knife DE32-C  
Head DE320-T

**BOTTOM:** Profile Knife DE32-L  
Head DE320-U



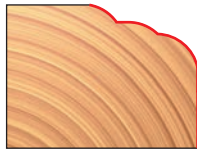
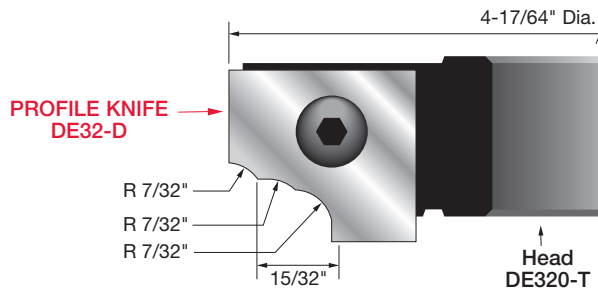
**TOP:** Profile Knife DE32-C  
Head DE320-T

**BOTTOM:** Profile Knife DE32-M  
Head DE320-U

## Two Piece 32mm Door Edge Profile Cutters

## PERFORMANCE SYSTEM® CUTTERS

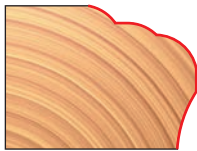
CONTINUED



**TOP:** Profile Knife DE32-D  
Head DE320-T



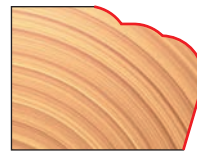
**TOP:** Profile Knife DE32-D  
Head DE320-T  
**BOTTOM:** Profile Knife DE32-J  
Head DE320-U



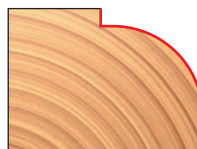
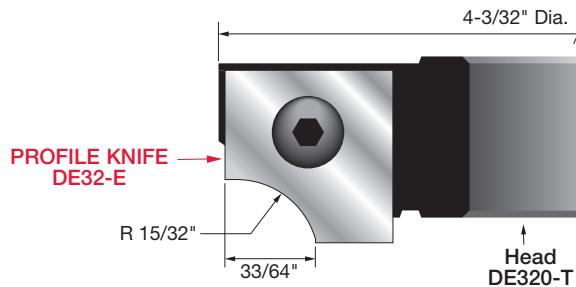
**TOP:** Profile Knife DE32-D  
Head DE320-T  
**BOTTOM:** Profile Knife DE32-K  
Head DE320-U



**TOP:** Profile Knife DE32-D  
Head DE320-T  
**BOTTOM:** Profile Knife DE32-L  
Head DE320-U



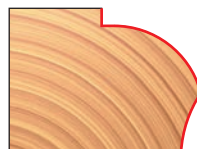
**TOP:** Profile Knife DE32-D  
Head DE320-T  
**BOTTOM:** Profile Knife DE32-M  
Head DE320-U



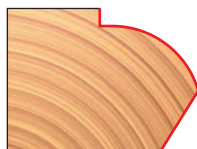
**TOP:** Profile Knife DE32-D  
Head DE320-T



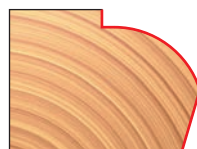
**TOP:** Profile Knife DE32-D  
Head DE320-T  
**BOTTOM:** Profile Knife DE32-J  
Head DE320-U



**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

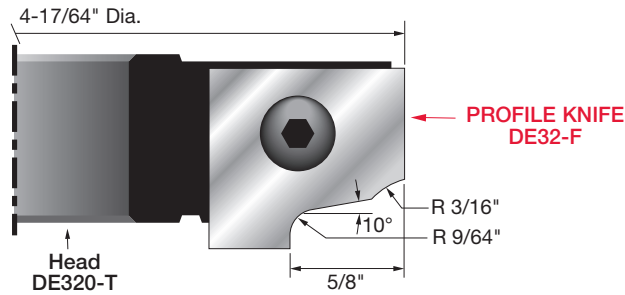
Softwood

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

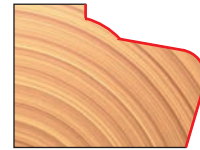


**TOP:** Profile Knife DE32-F  
Head DE320-T



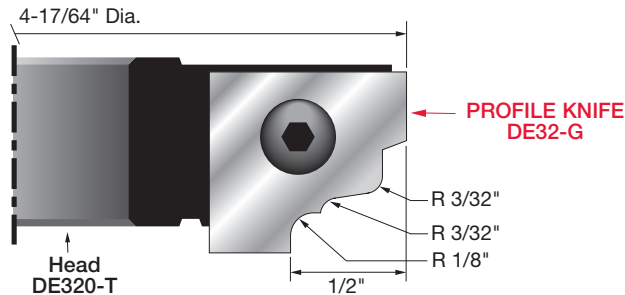
**TOP:** Profile Knife DE32-F  
Head DE320-T

**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

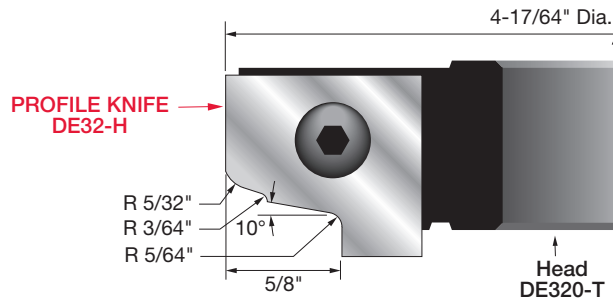
**BOTTOM:** Profile Knife DE32-M  
Head DE320-U



## Two Piece 32mm Door Edge Profile Cutters

## PERFORMANCE SYSTEM® CUTTERS

CONTINUED



**TOP:** Profile Knife DE32-H  
Head DE320-T



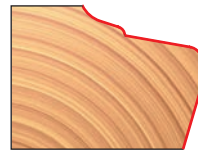
**TOP:** Profile Knife DE32-H  
Head DE320-T  
**BOTTOM:** Profile Knife DE32-J  
Head DE320-U



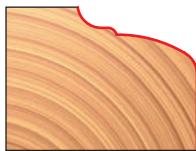
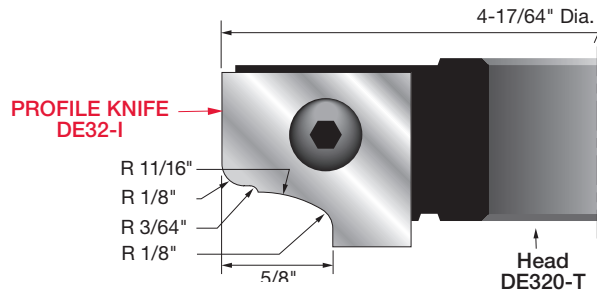
**TOP:** Profile Knife DE32-H  
Head DE320-T  
**BOTTOM:** Profile Knife DE32-K  
Head DE320-U



**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



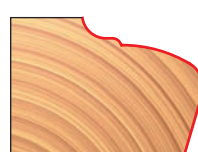
**TOP:** Profile Knife DE32-I  
Head DE320-T  
**BOTTOM:** Profile Knife DE32-J  
Head DE320-U



**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

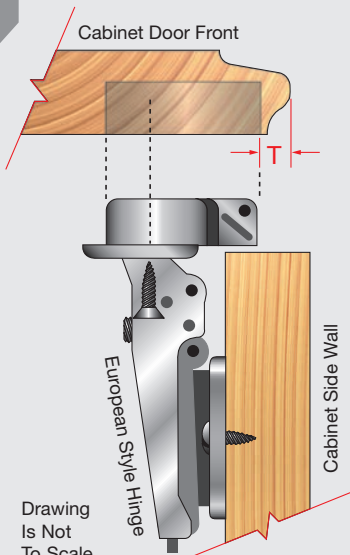


Hardwood

Softwood

MDF

Plywood

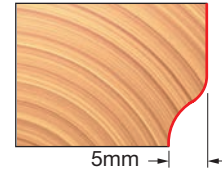
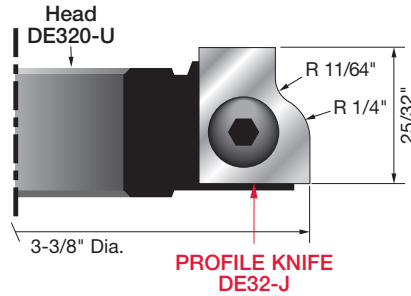


Drawing Is Not To Scale

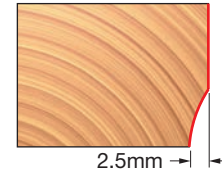
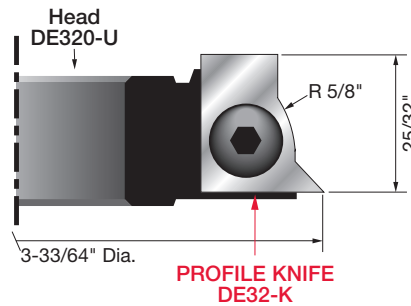
# Two Piece 32mm Door Edge Profile Cutters

CONTINUED

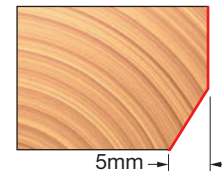
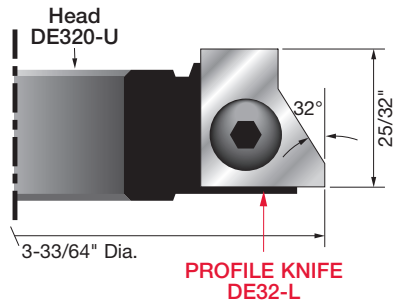
## BOTTOM PROFILE CUTTER KNIVES FOR CUTTERHEAD DE320-U



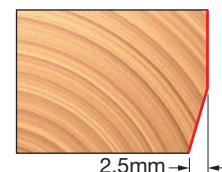
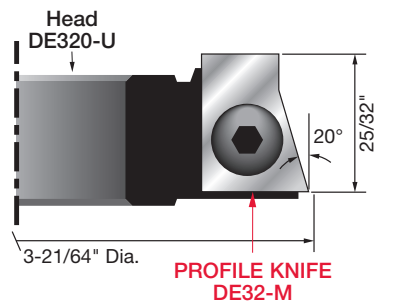
Profile Knife DE32-J  
Head DE320-U



Profile Knife DE32-K  
Head DE320-U



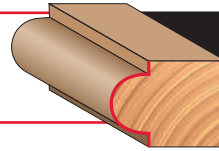
Profile Knife DE32-L  
Head DE320-U



Profile Knife DE32-M  
Head DE320-U

SHAPER CUTTERS

# Concave Radius Knives & Head



## PERFORMANCE SYSTEM® CUTTERS

### Concave Radius Head

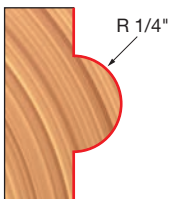
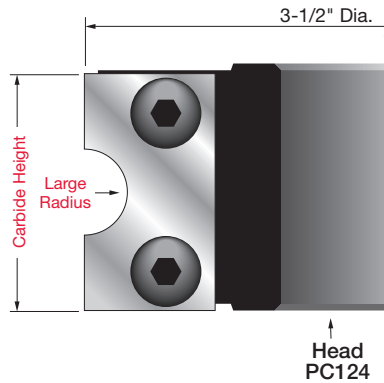
ITEM NUMBER	PART DESCRIPTION	NUMBER OF KNIVES REQUIRED	BORE DIAMETER
PC124	3-1/2"	2	1-1/4"

Knives sold separately

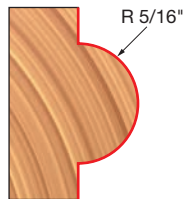
### Concave Radius Knives

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

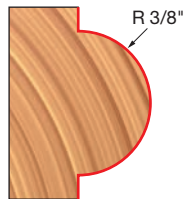
Cutterhead sold separately



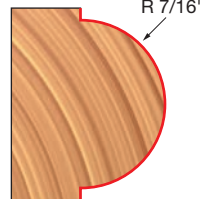
Profile Knife K122  
Head PC124



Profile Knife K123  
Head PC124



Profile Knife K124  
Head PC124



Profile Knife K125  
Head PC124

### USE IN



Shaper Machine

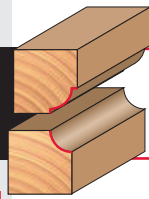
### APPLICATION

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



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

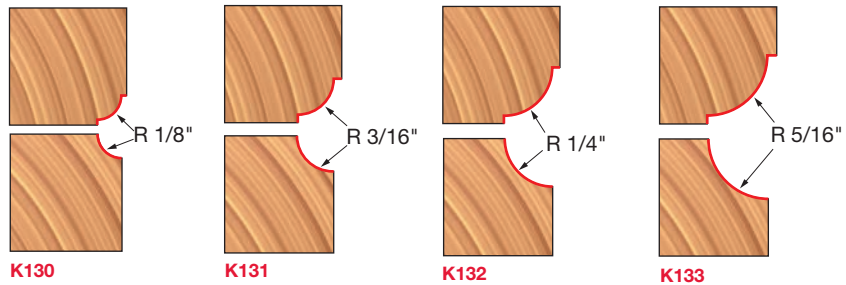
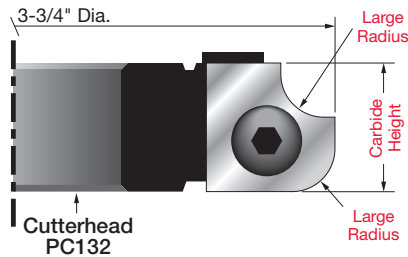
ITEM NUMBER	PART DESCRIPTION	NUMBER OF KNIFES REQUIRED	BORE DIAMETER
PC132	3-3/4"	2	1-1/4"

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

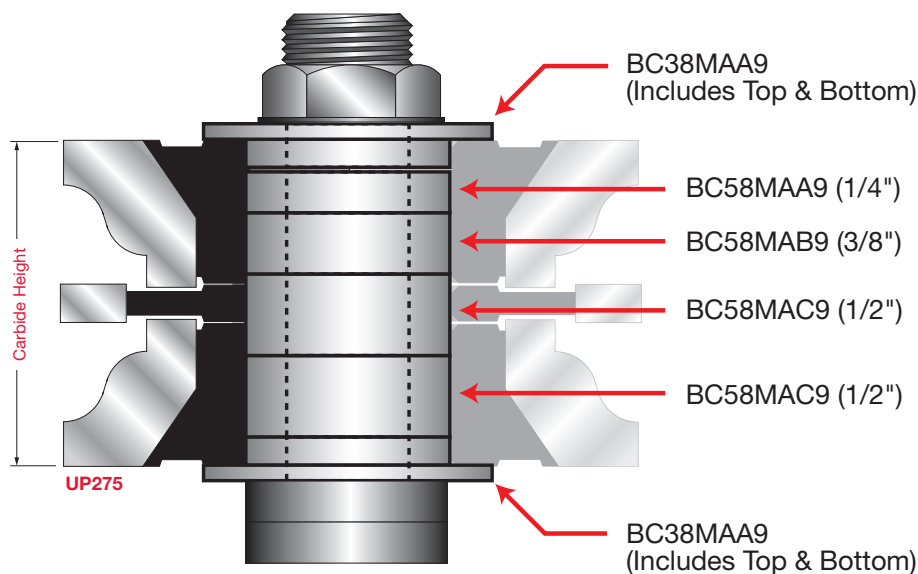
Cutterhead sold separately



## 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

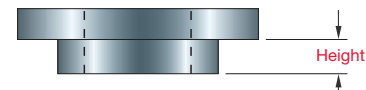
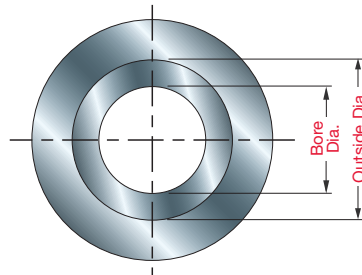


Hardwood Softwood

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

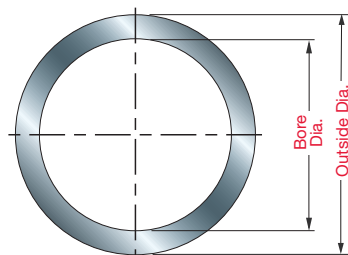


Hardwood Softwood

MDF Plywood

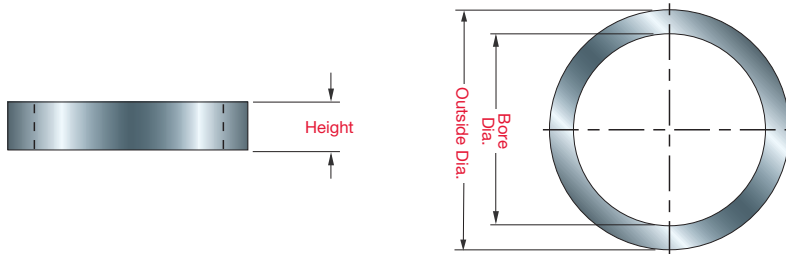
## Center Cutter Bushings

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

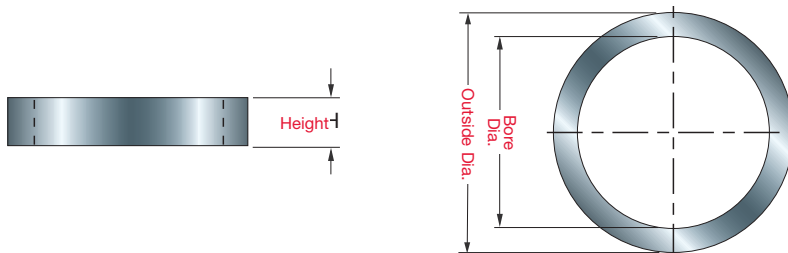
To be used with the Cassette 65 Cutter Set. Be sure to clean the cutter, bushing, and spindle prior to assembly.

### 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

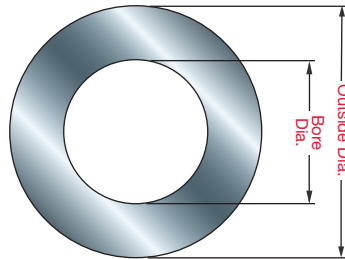


Plywood

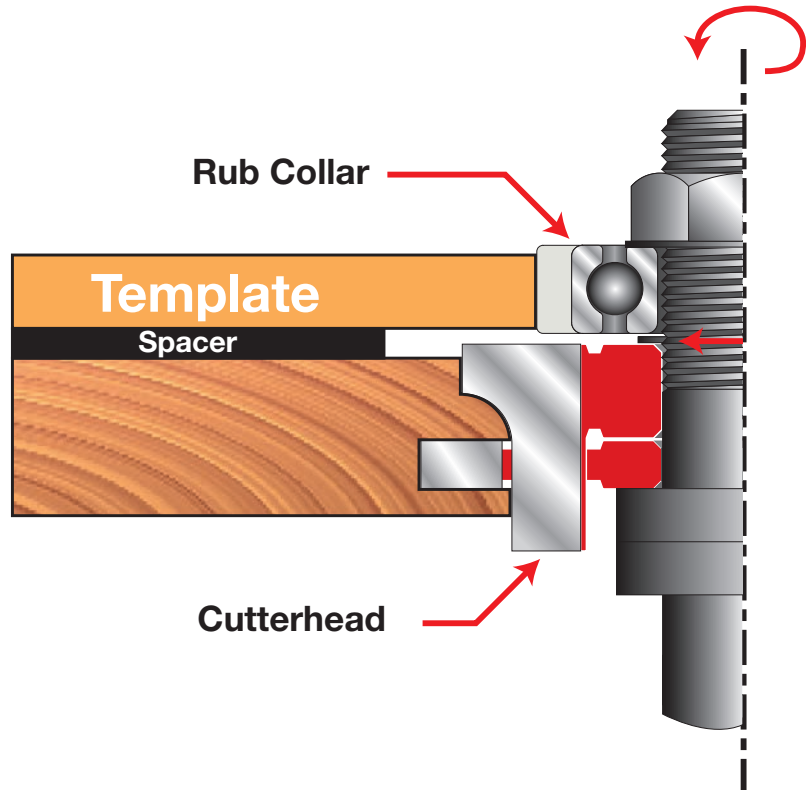
SHAPER CUTTERS

## 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

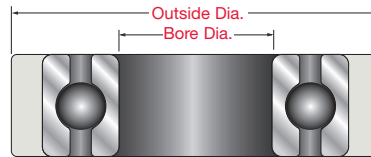




## Ball Bearing Rub Collars

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.	ITEM NO.	RUB COLLAR NO.	ITEM NO.	RUB COLLAR NO.	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

# 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

SHAPER CUTTERS



For universal use in Molder Heads, Shaper Cutters, Milling Cutters and Hogging Units

## 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

## 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

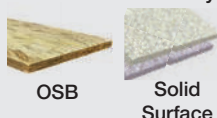
## APPLICATION

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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SHAPER CUTTERS

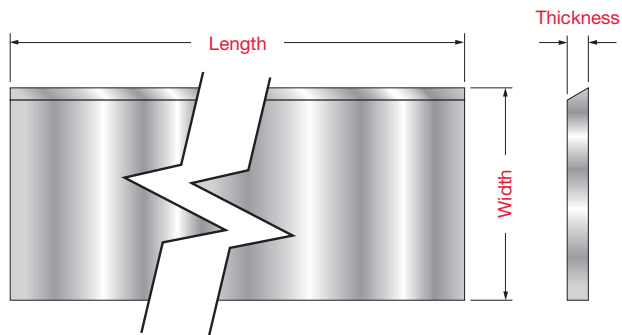
## High Speed Steel Industrial Planer & Jointer Knives

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



FI100



FI102

## 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

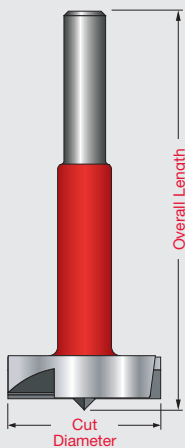


### MATERIALS



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"

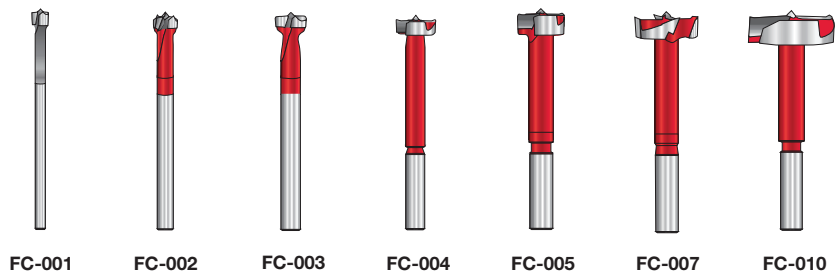
### Seven Piece Carbide Forstner Bit Set

### 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

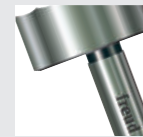
## APPLICATION

Drill pocket holes, angled holes, overlapping holes and flat bottom holes

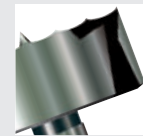
## ROTATION



**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

# 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



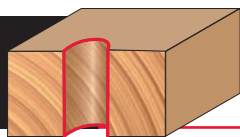
### MATERIALS



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

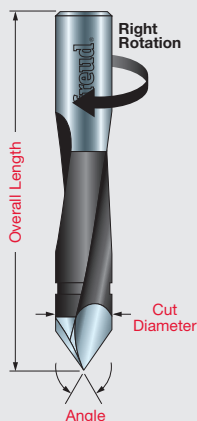
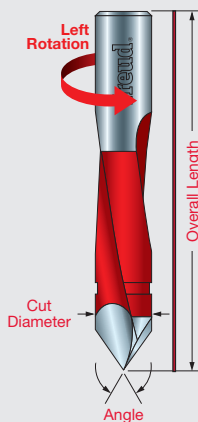
Softwood

Plywood

Laminate

OSB

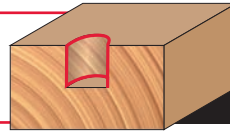
Solid Surface



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



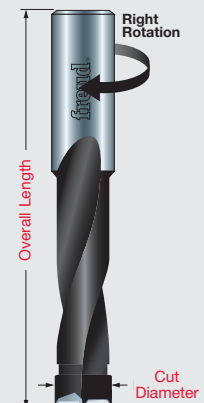
## APPLICATION

Designed for multiple spindle machines. The 60° point makes for accurate hole location of through holes.

## INCLUDES

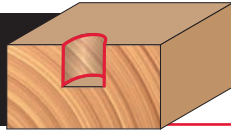
10mm shank with an adjustable top screw making them compatible with most boring machines

## MATERIALS



DRILL BITS

# FORSTNER, BORING, & DRILL BITS



## Industrial Carbide Tipped Brad Point Boring Bits

CONTINUED

### 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

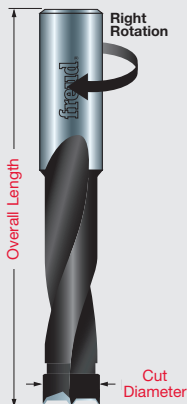
Softwood

Plywood

Laminate

OSB

Solid Surface



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



CNC

Drill Presses

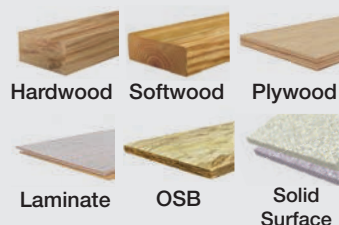
## APPLICATION

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.

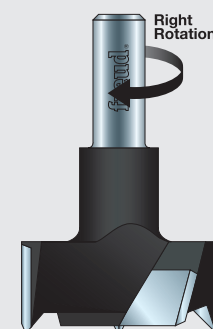
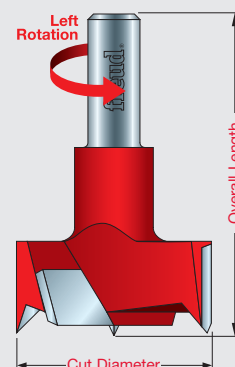
## INCLUDES

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

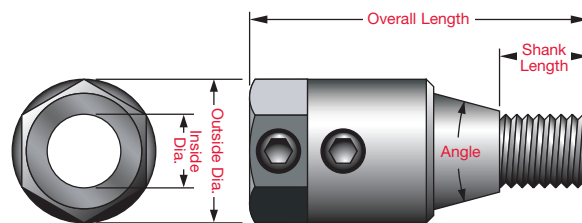
### APPLICATION

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

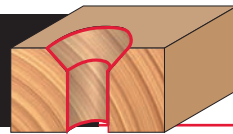


ITEM NUMBER	OUTSIDE DIA.	INSIDE DIA.	OVERALL LENGTH	ROTATION	ANGLE	SHANK DIA.	SHANK LENGTH
6010L	19.5mm	10mm	46mm	Left	30°	M10	12mm
6010R	19.5mm	10mm	46mm	Right	30°	M10	12mm
6015L	19.5mm	10mm	46mm	Left	30°	M10	12mm
6015R	19.5mm	10mm	46mm	Right	30°	M10	12mm
6020L	19.5mm	10mm	46mm	Left	30°	M10	12mm
6020R	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



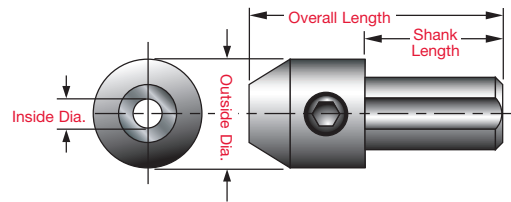
ITEM NUMBER	OUTSIDE DIA.	INSIDE DIA.	ROTATION	ANGLE
7010L	15.5mm	5mm	Left	82°
7010R	15.5mm	5mm	Right	82°
7012L	15.5mm	6mm	Left	82°
7012R	15.5mm	6mm	Right	82°
7013L	15.5mm	7mm	Left	82°
7013R	15.5mm	7mm	Right	82°
7014L	18mm	8mm	Left	82°
7014R	18mm	8mm	Right	82°
7016L	20mm	10mm	Left	82°
7016R	20mm	10mm	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.

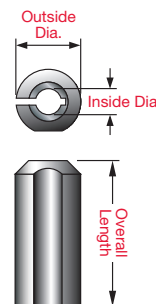
### MATERIALS



## 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

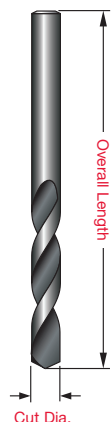
### APPLICATION

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

Pages 86–273



## 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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Print 3/2020 PN#LIT 1

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