

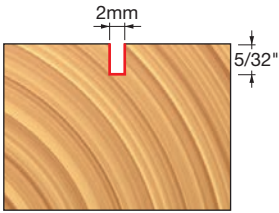
# Double Flute Straight Bits



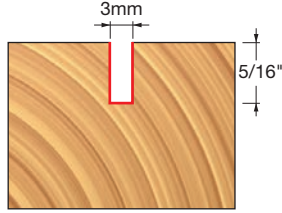
# STRAIGHT, SPIRAL & TRIM BITS

CONTINUED

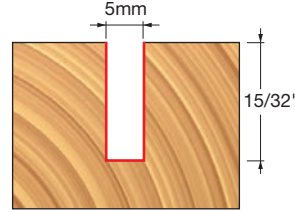
## Metric Version



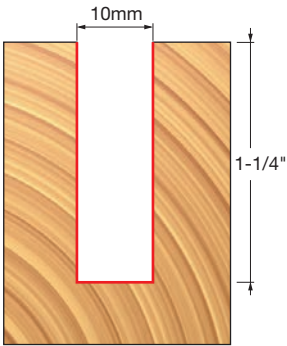
04-502 metric



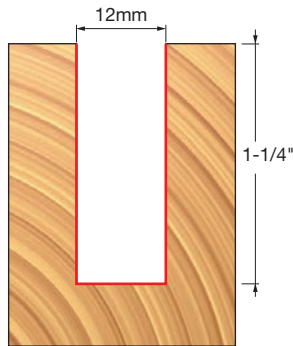
04-508 metric



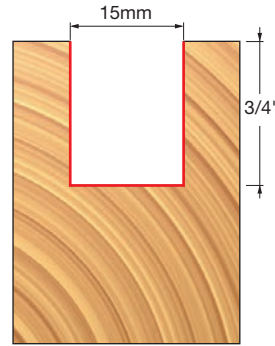
04-512 metric



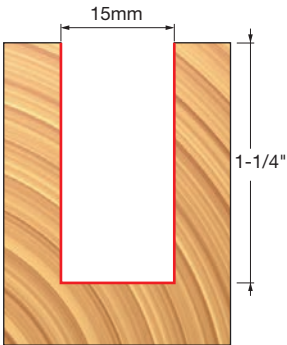
04-520 metric / 12-520 metric



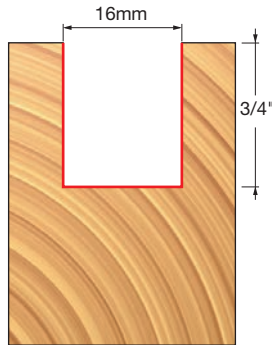
04-528 metric / 12-530 metric



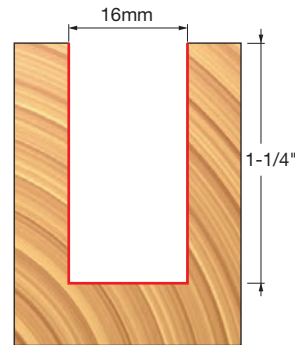
04-532 metric



04-536 metric



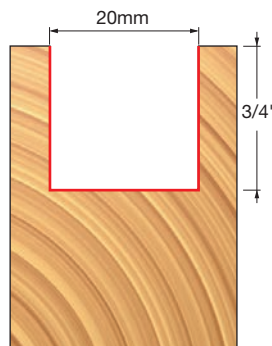
04-540 metric



04-544 metric / 12-544 metric



04-548 metric



04-552 metric

## USE IN



Table Router

Hand Router

CNC

## APPLICATION

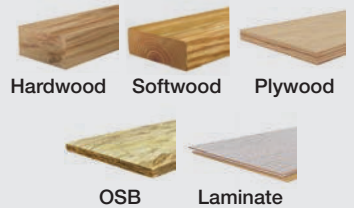
Precise shear and hook angles for smooth finishes and end of bit relief for fast plunging in general stock removal



## ECLIPSE GRIND

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

## MATERIALS



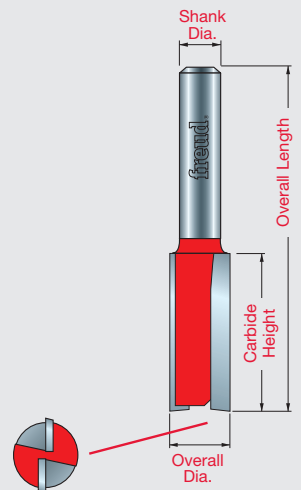
Hardwood

Softwood

Plywood

OSB

Laminate



Double Flute

\* Solid Carbide

Red Item Numbers Indicate 1/2" Shank

All Profile Drawings 1:1 Scale

# STRAIGHT, SPIRAL & TRIM BITS



## Single Flute Straight Bits

### USE IN



Table Router



Hand Router

CNC

### APPLICATION

High production work with maximum chip clearance for fast feed rates

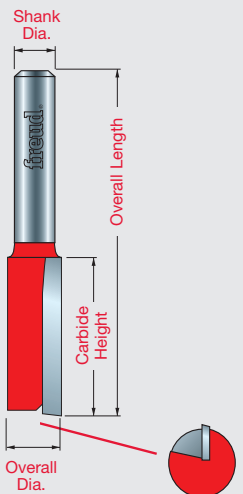
### MATERIALS



Hardwood Softwood Plywood

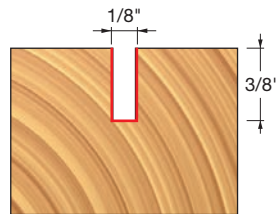


OSB Laminate

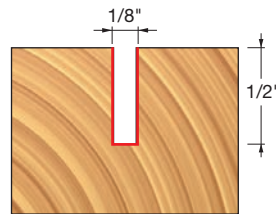


Single Flute

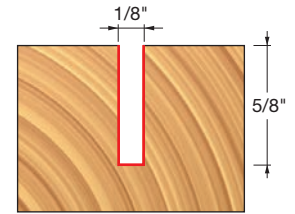
ITEM NUMBER	OVERALL DIA.	CARBIDE HEIGHT	SHANK DIA.	OVERALL LENGTH
03-112*	1/8"	3/8"	1/4"	1-1/2"
03-116*	1/8"	1/2"	1/4"	2"
03-120*	1/8"	5/8"	1/4"	2"
03-124*	3/16"	3/8"	1/4"	1-1/2"
03-128*	3/16"	1/2"	1/4"	2"
03-132*	1/4"	1/2"	1/4"	2"
03-136*	1/4"	3/4"	1/4"	2-1/2"
03-140*	1/4"	1-1/2"	1/4"	2-1/2"
03-144*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



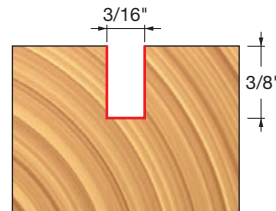
03-112



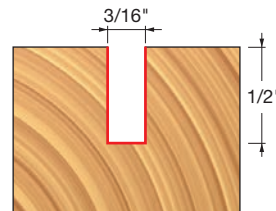
03-116



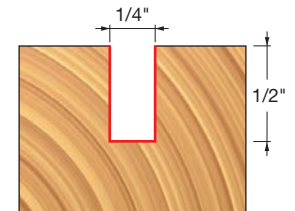
03-120



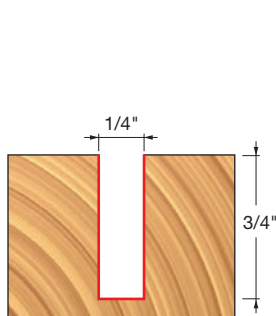
03-124



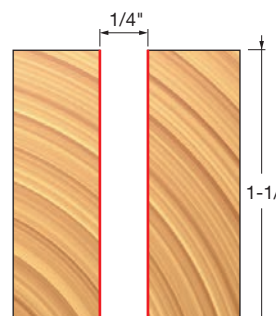
03-128



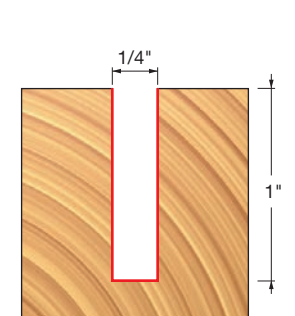
03-132 / 11-136



03-136 / 05-136



03-140



03-144

\* Solid Carbide

Red Item Numbers Indicate 1/2" Shank

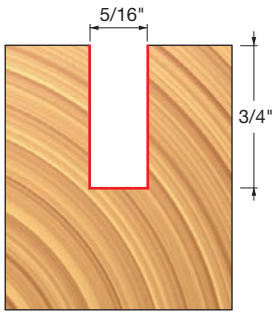
All Profile Drawings 1:1 Scale

# Single Flute Straight Bits

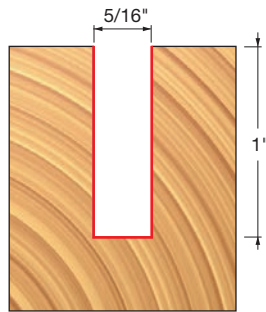


# STRAIGHT, SPIRAL & TRIM BITS

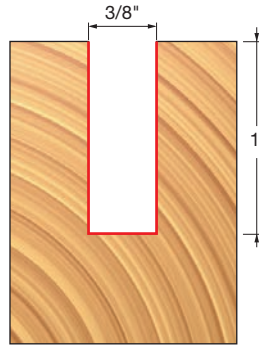
CONTINUED



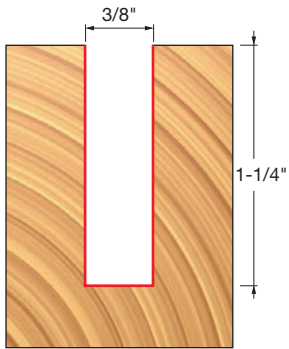
03-148



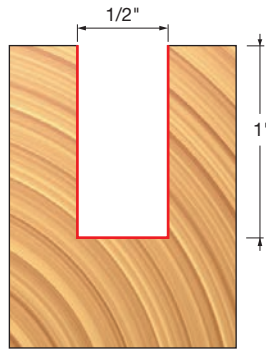
03-152 / 11-152



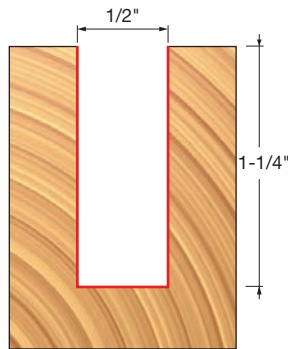
11-158



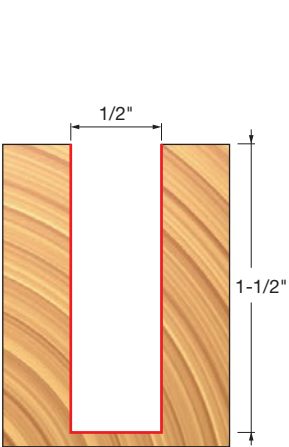
03-156 / 05-160 / 11-160



05-164 / 11-164



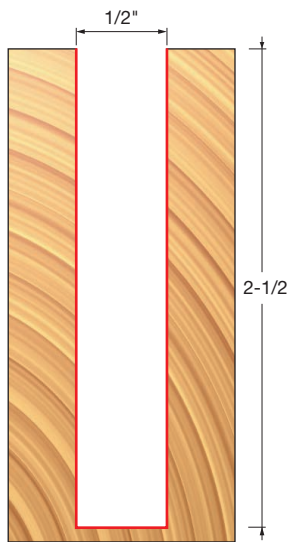
11-168



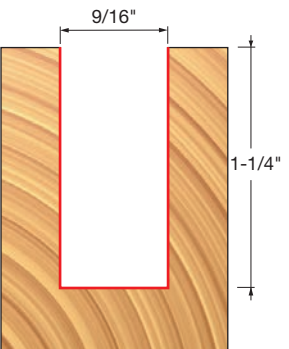
11-172



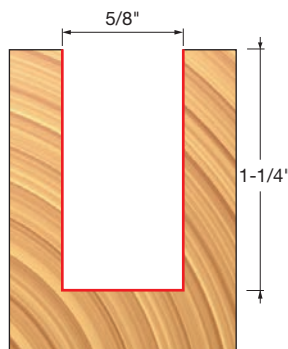
11-176



11-180



11-184



11-188

## USE IN



Table Router

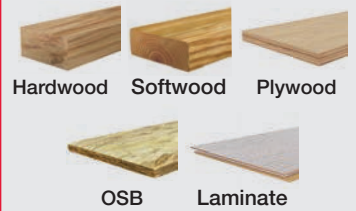
Hand Router

CNC

## APPLICATION

High production work with maximum chip clearance for fast feed rates

## MATERIALS



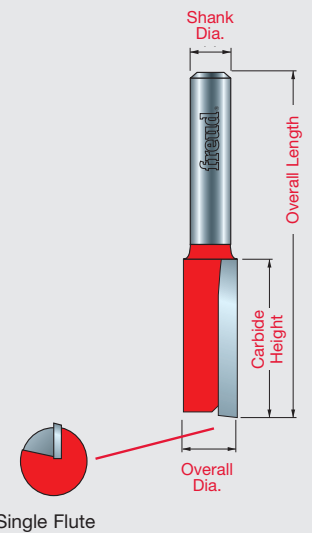
Hardwood

Softwood

Plywood

OSB

Laminate

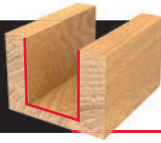


\* Solid Carbide

Red Item Numbers Indicate 1/2" Shank

All Profile Drawings 1:1 Scale

# STRAIGHT, SPIRAL & TRIM BITS



## Mortising Bits

### USE IN



Table Router



Hand Router

CNC

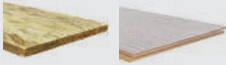
### APPLICATION

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

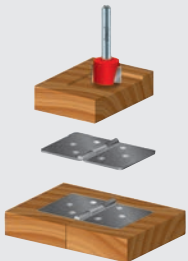
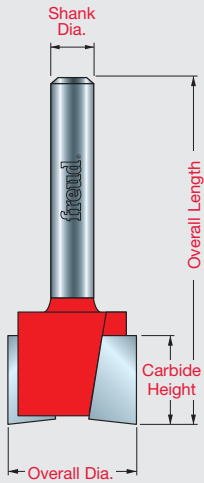
### MATERIALS



Hardwood Softwood Plywood



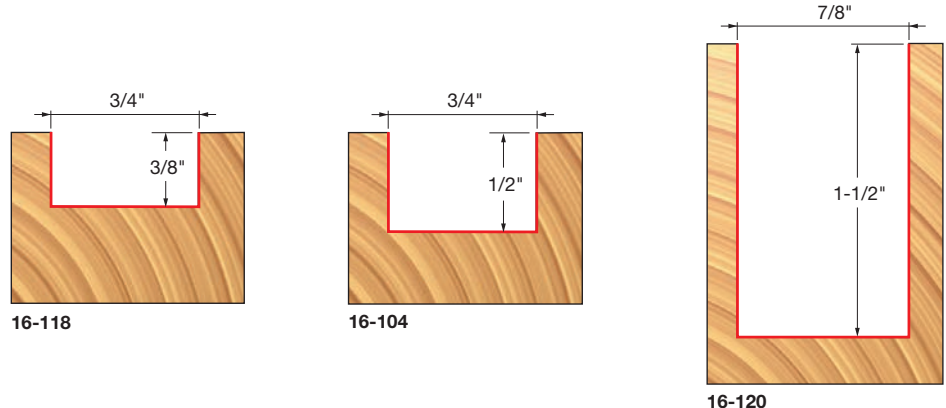
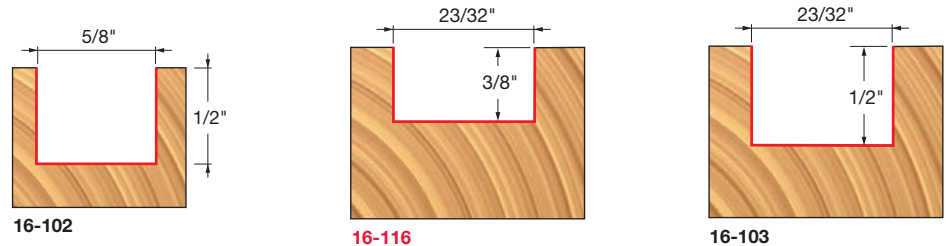
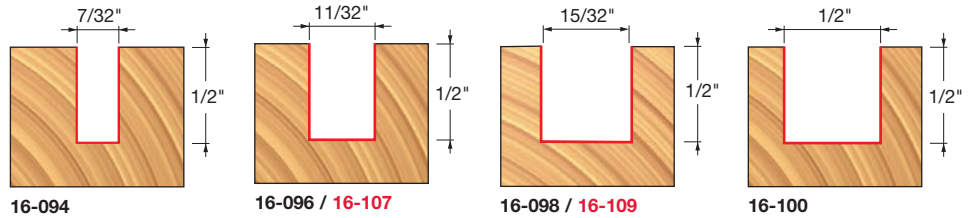
OSB Laminate



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

### Top Bearing Mortising-Dado Bits

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

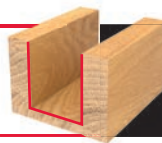


\* Overall bearing diameter is 5/8"

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

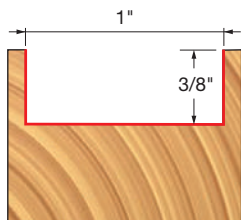
All Profile Drawings 1:1 Scale

# Mortising Bits

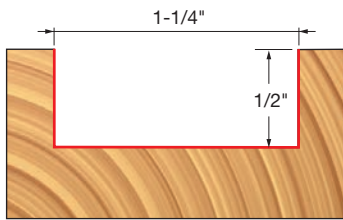


# STRAIGHT, SPIRAL & TRIM BITS

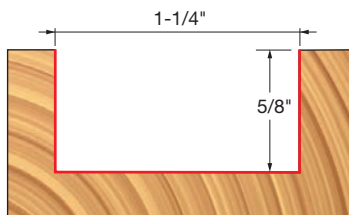
CONTINUED



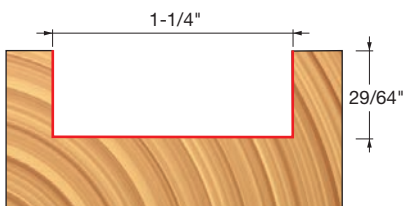
16-122



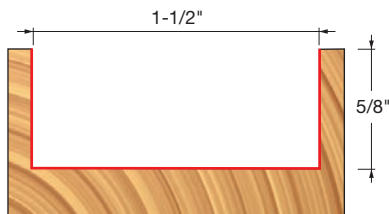
16-108



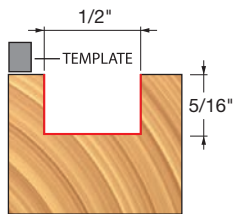
16-524 Top Bearing



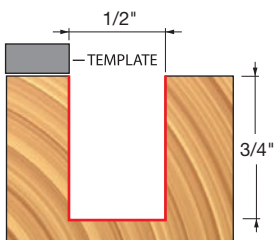
16-106



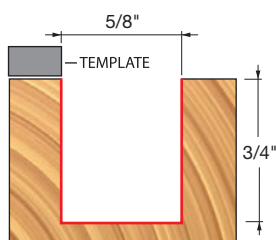
16-128



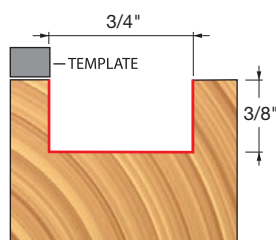
16-560\*  
\*Overall bearing diameter is 5/8"



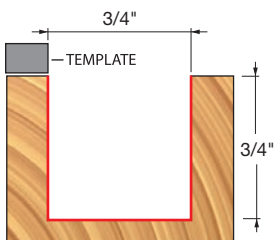
16-500 Top Bearing



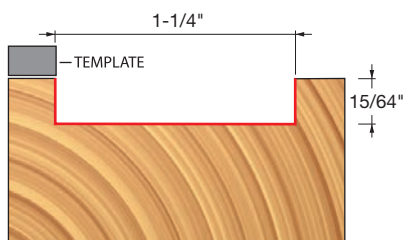
16-502 Top Bearing



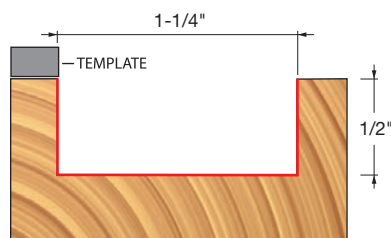
16-510 Top Bearing  
16-520 Top Bearing



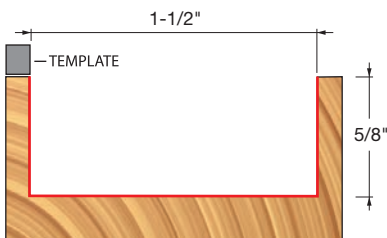
16-504 Top Bearing



16-522 Top Bearing



16-523 Top Bearing



16-528 Top Bearing

## USE IN



Table Router



Hand Router



CNC

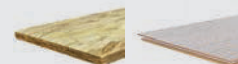
## APPLICATION

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

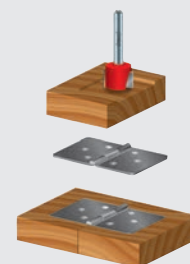
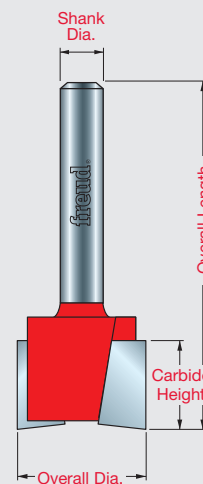
## MATERIALS



Hardwood Softwood Plywood



OSB Laminate



# STRAIGHT, SPIRAL & TRIM BITS



## Stagger Bits

### USE IN



Table Router



Hand Router

CNC

### APPLICATION

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

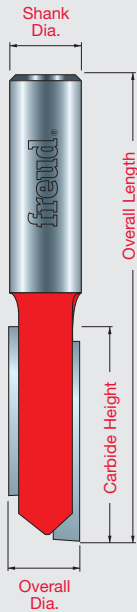
### MATERIALS



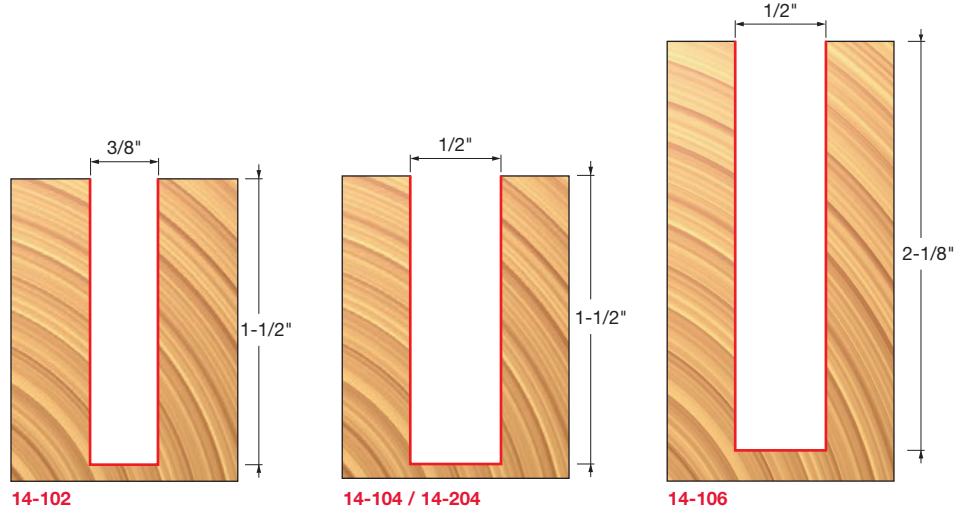
Hardwood Softwood Plywood



OSB Laminate



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



14-102

14-104 / 14-204

14-106

# Premier Solid Carbide Spiral Bits



# STRAIGHT, SPIRAL & TRIM BITS

## Up Spiral Bits



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

## USE IN



Table Router

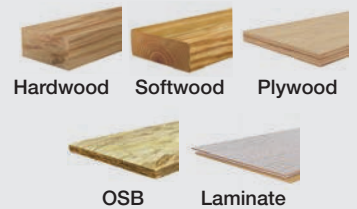
Hand Router

CNC

## APPLICATION

Cutting mortises and routing deep blind holes

## MATERIALS



Hardwood

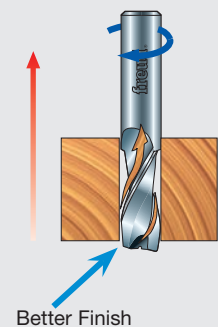
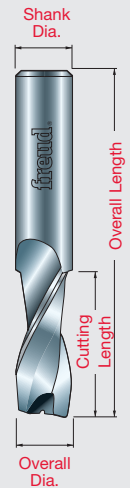
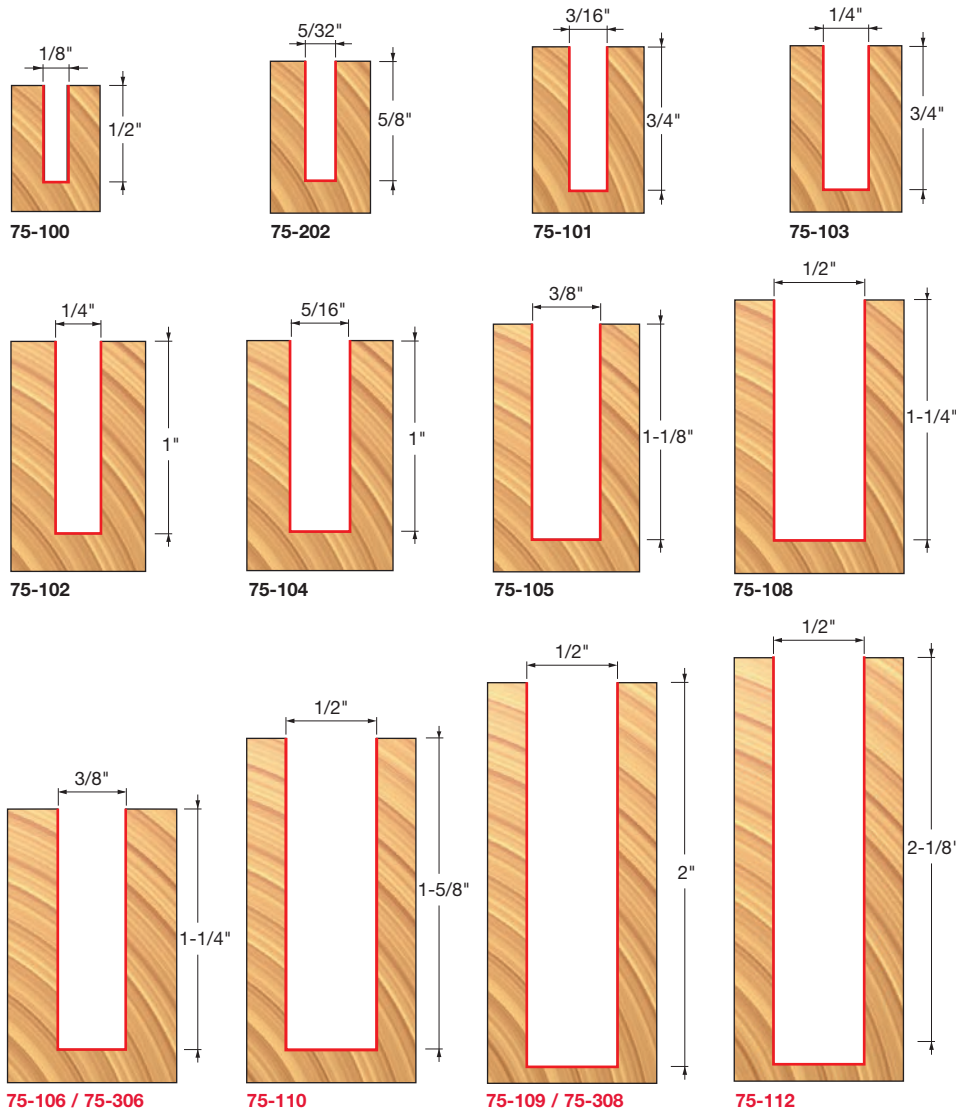
Softwood

Plywood

OSB

Laminate

ROUTER BITS



\* Solid Carbide

Red Item Numbers Indicate 1/2" Shank

All Profile Drawings 1:1 Scale

# STRAIGHT, SPIRAL & TRIM BITS



## Premier Solid Carbide Spiral Bits

### USE IN



Table Router



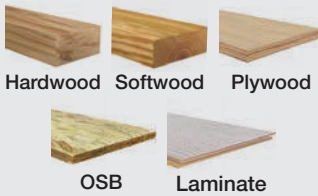
Hand Router

CNC

### APPLICATION

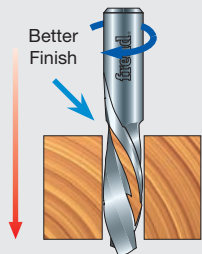
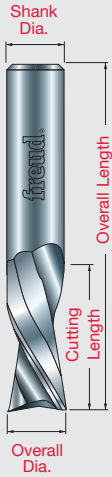
Grooves and dadoes in single-sided veneers and laminates. Ideal for smooth, chip-free routing where chip removal is not a problem.

### MATERIALS



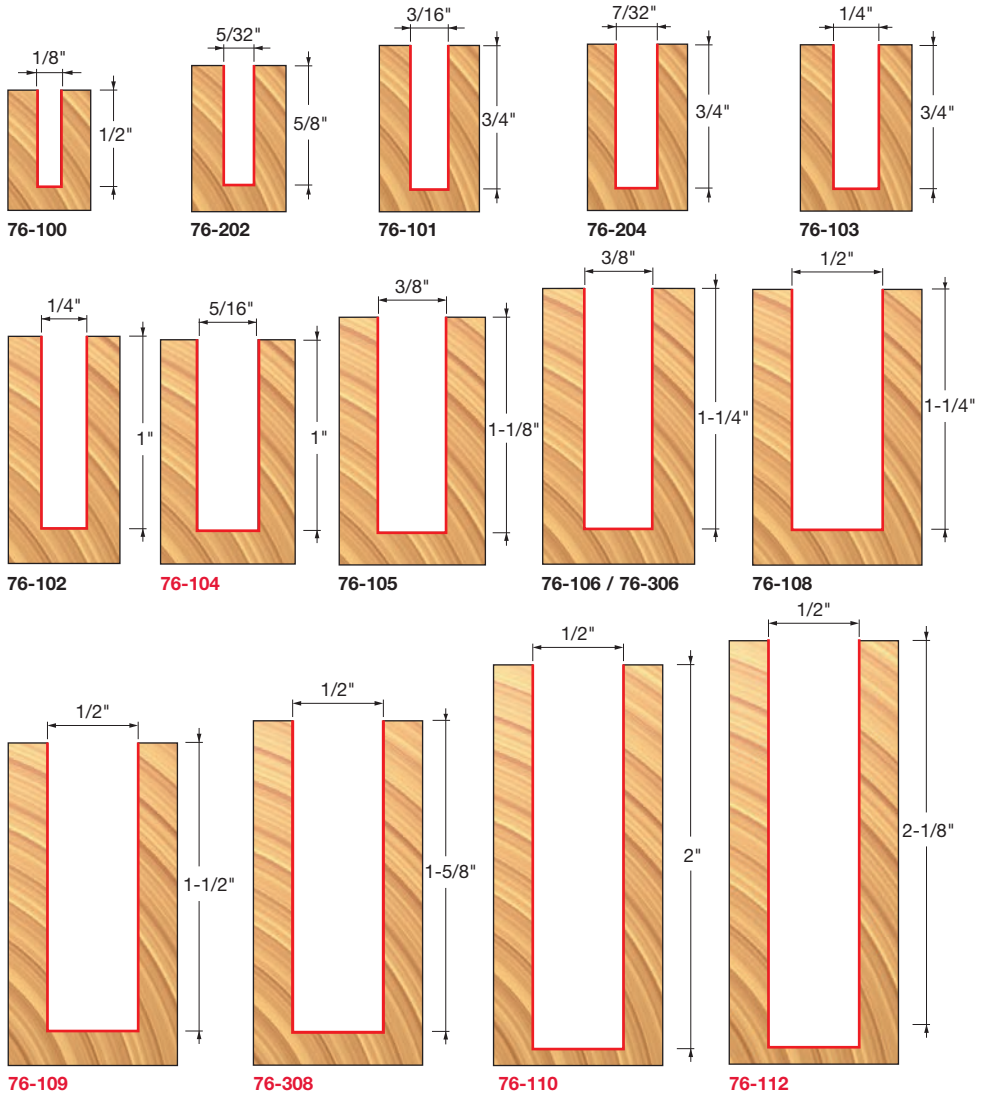
Hardwood Softwood Plywood

OSB Laminate



### CONTINUED Down Spiral Bits

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





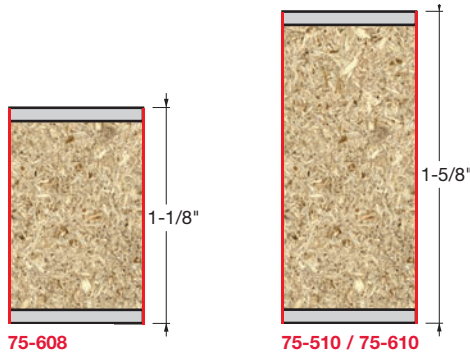
# Premier Solid Carbide Chipbreaker Spiral Bits



# STRAIGHT, SPIRAL & TRIM BITS

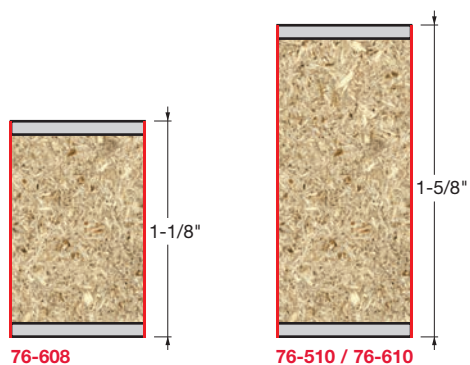
## Up Spiral Bits

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



## Down Spiral Bits

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



### USE IN



Hand Router

CNC

### APPLICATION

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

### MATERIALS



Hardwood

Softwood

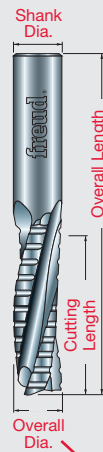
Veneer

Melamine

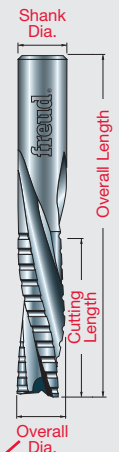
ROUTER BITS



### Up Spiral Bits



### Down Spiral Bits



Double Flute

or



Triple Flute

CONTINUES on page 107

# STRAIGHT, SPIRAL & TRIM BITS

## Premier Solid Carbide O-Flute Spiral Bits



### USE IN



Table Router



Hand Router



CNC

### APPLICATION

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

### MATERIALS



Hardwood Softwood Plywood



Plastic

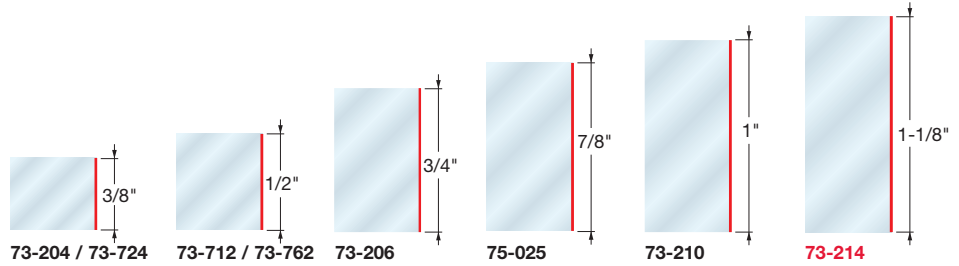


Laminate



### Up Spiral Bits

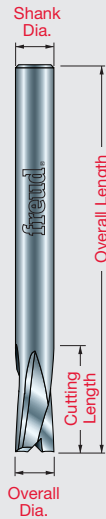
ITEM NUMBER	OVERALL DIA.	CUTTING LENGTH	NUMBER OF FLUTES	SHANK DIA.	OVERALL LENGTH
73-712*	1/8"	1/2"	1	1/4"	2"
73-724*	1/4"	3/8"	1	1/4"	2"
73-762*	1/8"	1/2"	1	1/4"	2"
75-025*	1/4"	7/8"	1	1/4"	2-1/2"
Double Flute					
73-204*	1/4"	3/8"	2	1/4"	2-1/2"
73-206*	1/4"	3/4"	2	1/4"	1-1/2"
73-210*	3/8"	1"	2	3/8"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



### Up Spiral Bits

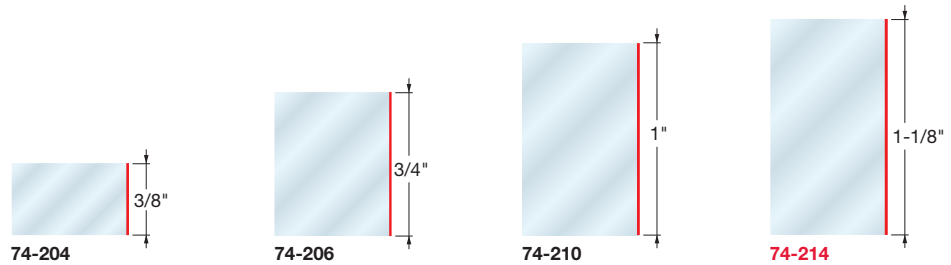


### Down Spiral Bits

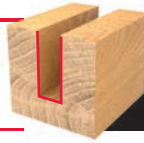


### Down Spiral Bits

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



## Premier Solid Carbide O-Flute Straight Bits



## STRAIGHT, SPIRAL & TRIM BITS

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



### USE IN



Table Router



Hand Router



CNC

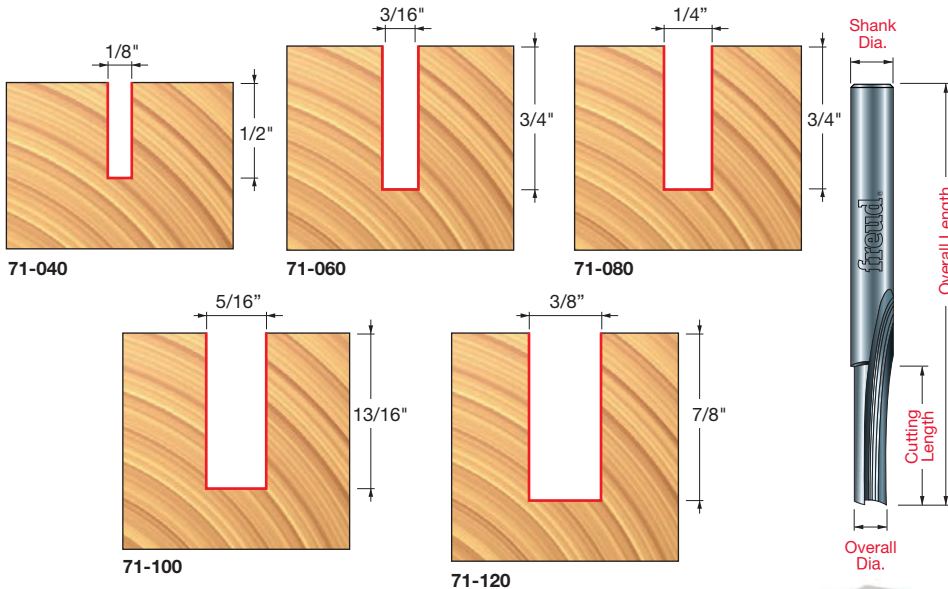
### APPLICATION

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

### MATERIALS

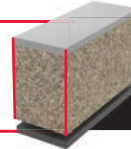


Hardwood Softwood Plywood  
OSB Laminate Plastic



ROUTER BITS

## Diamond Compression Bits



## STRAIGHT, SPIRAL & TRIM BITS

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

### USE IN



Table Router



Hand Router



CNC

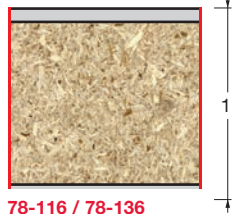
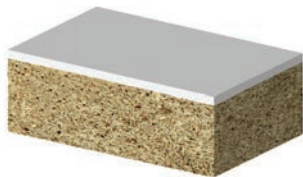
### APPLICATION

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

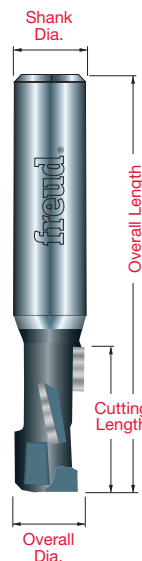
### MATERIALS



Hardwood Softwood Plywood  
OSB Laminate MDF



78-116 / 78-136



\* Solid Carbide

Red Item Numbers Indicate 1/2" Shank

All Profile Drawings 1:1 Scale

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

## THE SLICKEST TECHNOLOGY IN SOLID CARBIDE ROUTER BITS



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



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



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

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

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



## 2X THE PERFORMANCE. 2X THE PRODUCTIVITY.

vs. standard uncoated bits

## Premier Solid Carbide Chipbreaker Spiral Bits



## STRAIGHT, SPIRAL & TRIM BITS

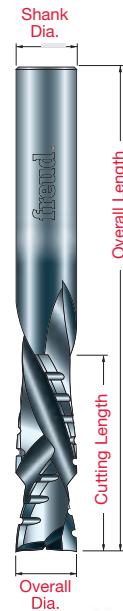
CONTINUED from page 103

### Double Compression Spiral Bits

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



77-610



USE IN



Table Router



Hand Router



CNC

### APPLICATION

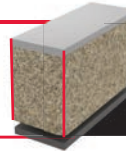
Combination of up and down shear flutes eliminates chipping on both sides of double-sided panels

### MATERIALS



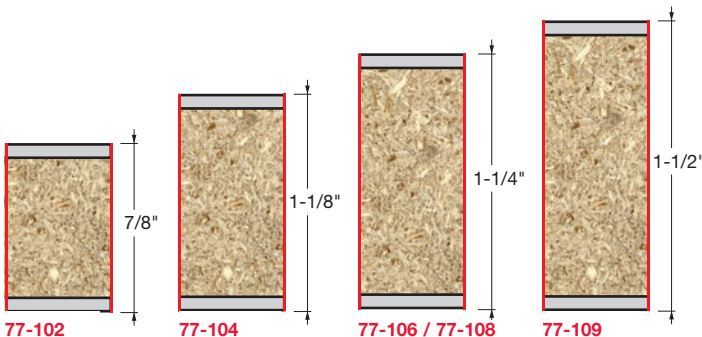
ROUTER BITS

## Premier Solid Carbide 1-Flute Compression Bit



## STRAIGHT, SPIRAL & TRIM BITS

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

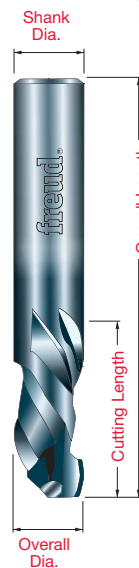


77-102

77-104

77-106 / 77-108

77-109



USE IN



Table Router



Hand Router



CNC

### APPLICATION

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

### MATERIALS



\* Not Black ICE Coated

Red Item Numbers Indicate 1/2" Shank

All Profile Drawings 1:1 Scale

# STRAIGHT, SPIRAL & TRIM BITS



## Premier Solid Carbide 2-Flute Compression Bit

### USE IN

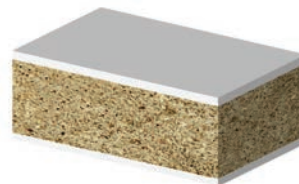
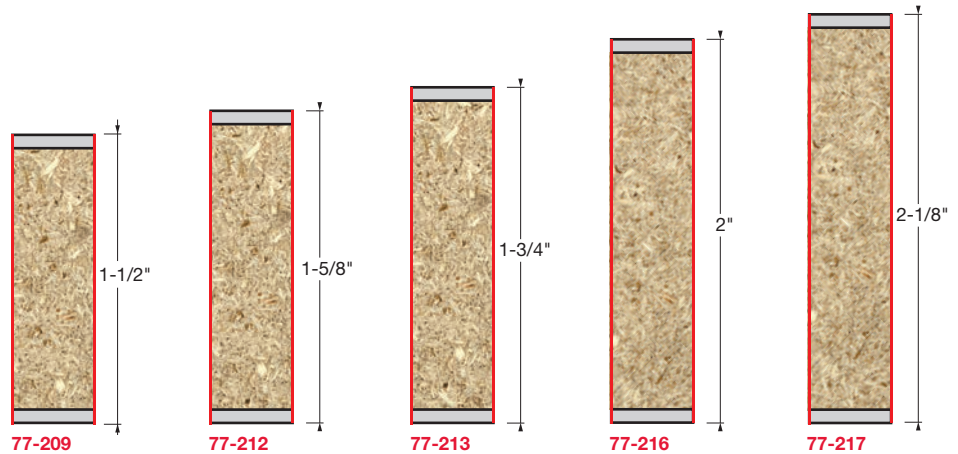
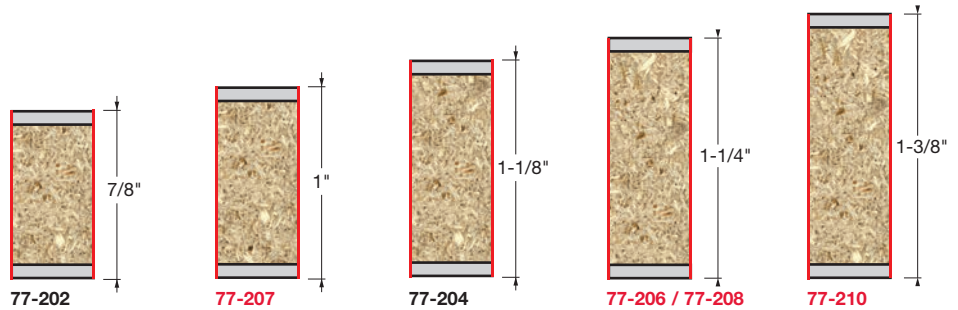
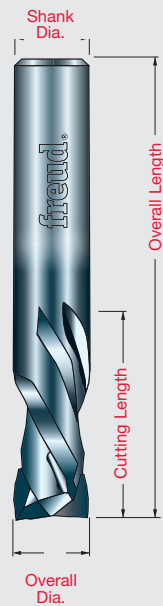


ITEM NUMBER	OVERALL DIA.	CUTTING LENGTH	SHANK DIA.	OVERALL LENGTH	UPCUT LENGTH
77-202	1/4"	7/8"	1/4"	2-1/2"	11/32"
77-204	3/8"	1-1/8"	3/8"	3"	11/32"
77-206*	3/8"	1-1/4"	1/2"	3"	11/32"
77-207	1/2"	1"	1/2"	3"	1/2"
77-208	1/2"	1-1/4"	1/2"	3"	11/32"
77-209	1/2"	1-1/2"	1/2"	3-1/2"	11/32"
77-210	1/2"	1 3/8"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

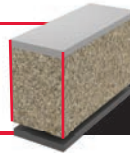
### APPLICATION

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

### MATERIALS



## Premier Solid Carbide 3-Flute Compression Bit



## STRAIGHT, SPIRAL & TRIM BITS

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



USE IN



Table Router



Hand Router

CNC

### APPLICATION

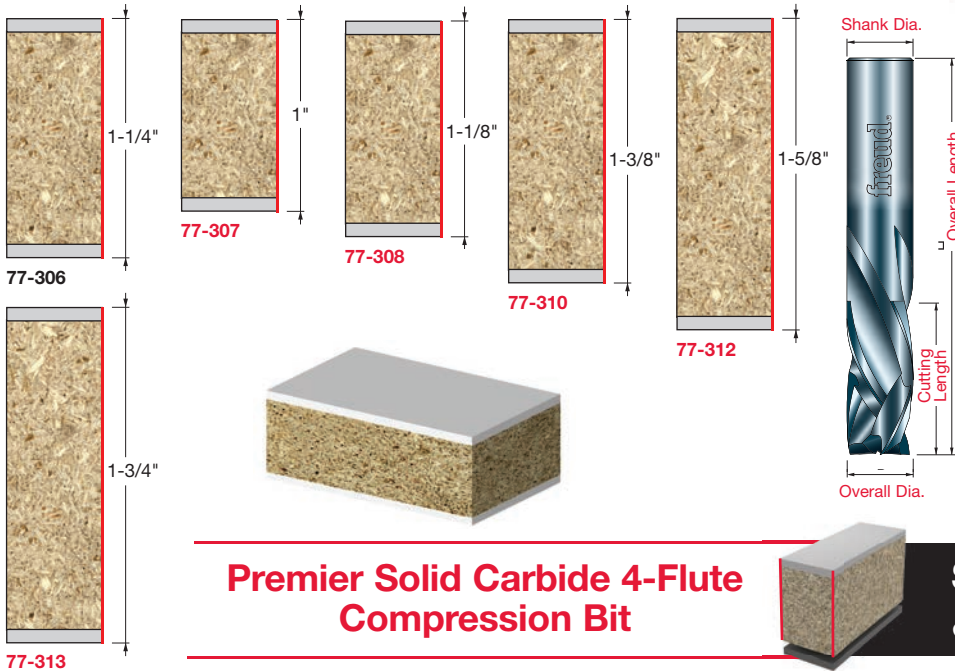
Ultra fine finish on both top and bottom surface, and fast cut in double sided veneers, laminates and solid hardwood and softwood

### MATERIALS

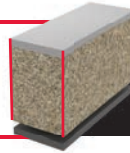


Hardwood Softwood

Veneer Laminate



## Premier Solid Carbide 4-Flute Compression Bit



## STRAIGHT, SPIRAL & TRIM BITS

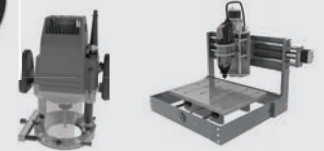
ITEM NUMBER	OVERALL DIA.	CUTTING LENGTH	SHANK DIA.	OVERALL LENGTH	UPCUT LENGTH
77-707	1/2"	1"	1/2"	3"	1/2"
77-710	1/2"	1 3/8"	1/2"	3 1/2"	5/8"
77-713	1/2"	1 3/4"	1/2"	3 1/2"	3/4"



USE IN



Table Router



Hand Router

CNC

### APPLICATION

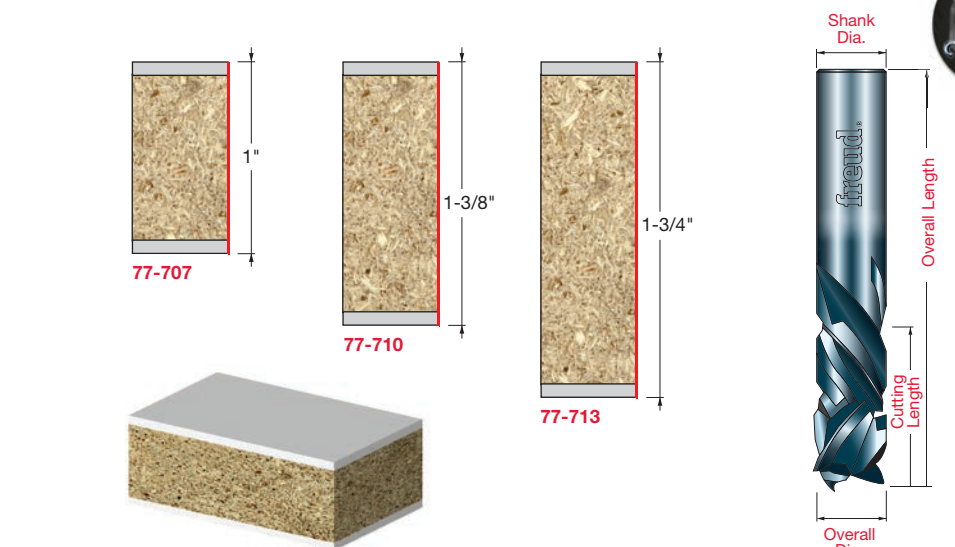
Ultra fine finish on both top and bottom surface, and fast cut in double sided veneers, laminates and solid hardwood and softwood

### MATERIALS



Hardwood Softwood

Veneer Laminate



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

# STRAIGHT, SPIRAL & TRIM BITS



## Premier Solid Carbide Mortise Compression Spiral Bits

### USE IN



Table Router

Hand Router

CNC



ROUTER BITS

### APPLICATION

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

### MATERIALS



Hardwood

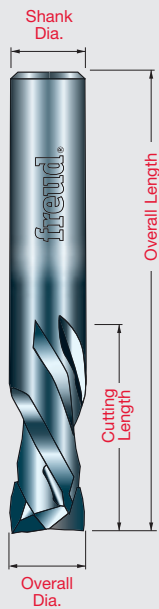
Softwood

Veneers

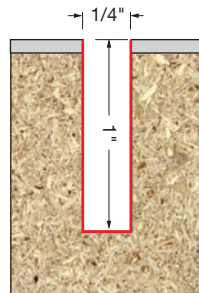
OSB

Plywood

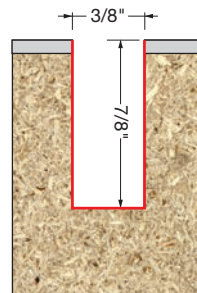
Melamine



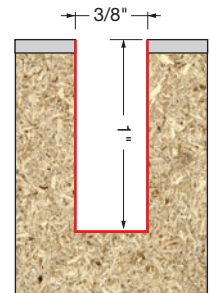
ITEM NUMBER	OVERALL DIA.	CUTTING LENGTH	NUMBER OF FLUTES	SHANK DIA.	OVERALL LENGTH	UPCUT LENGTH
<b>Single Flute</b>						
77-404	3/8"	1"	1	3/8"	3"	13/64"
77-408	1/2"	7/8"	1	1/2"	3"	15/64"
77-410	1/2"	1-3/8"	1	1/2"	3-1/2"	15/64"
<b>Double Flute (extra clean cuts at faster feed rates)</b>						
77-504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



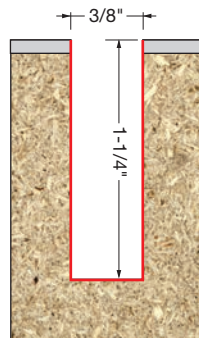
77-602



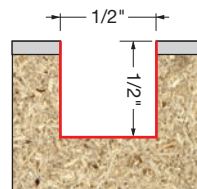
77-603



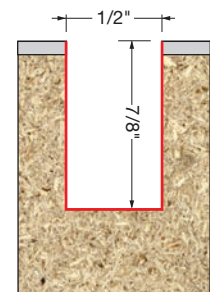
77-404 / 77-504 / 77-604



77-605



77-508



77-408

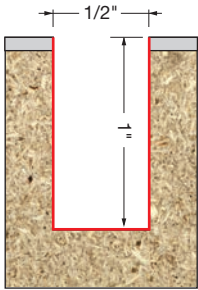


# Premier Solid Carbide Mortise Compression Spiral Bits

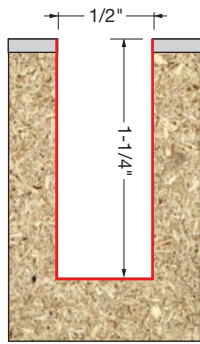


## STRAIGHT, SPIRAL & TRIM BITS

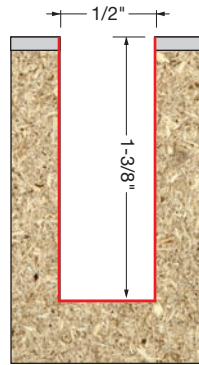
CONTINUED



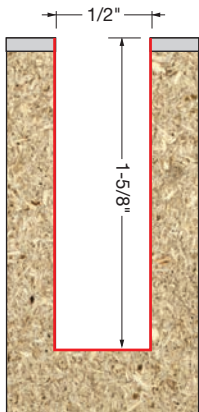
77-608 / 77-807



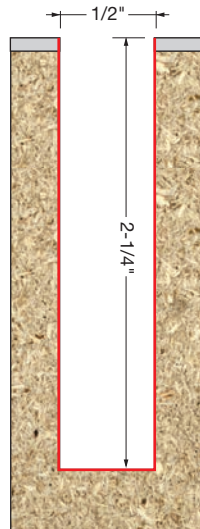
77-509



77-410 / 77-510 / 77-620



77-610 / 77-622 / 77-822



77-614 / 77-624



USE IN



Table Router



Hand Router



CNC

### APPLICATION

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

### MATERIALS



Hardwood Softwood Veneers

OSB Plywood Melamine

ROUTER BITS

# STRAIGHT, SPIRAL & TRIM BITS



## Solid Carbide Flush Trim Bits

### USE IN

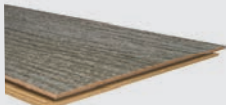


Hand Router

### APPLICATION

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

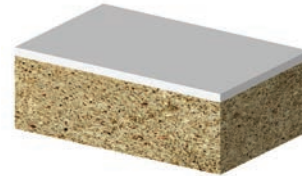
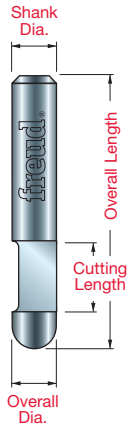
### MATERIALS



Laminates



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



ROUTER BITS

# STRAIGHT, SPIRAL & TRIM BITS



## Panel Pilot Bits

### USE IN



Hand Router

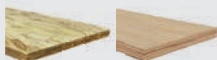
### APPLICATION

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

### MATERIALS

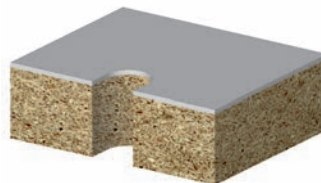
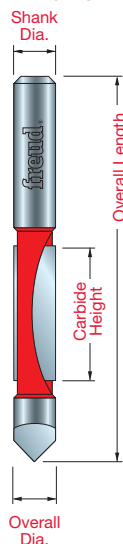


Hardwood Softwood



OSB Plywood

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





## Super Hook Straight Bits



## STRAIGHT, SPIRAL & TRIM BITS

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



### USE IN

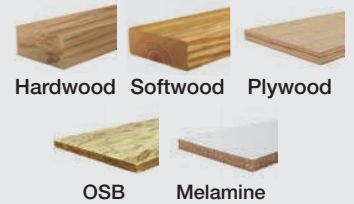


CNC

### APPLICATION

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

### MATERIALS



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

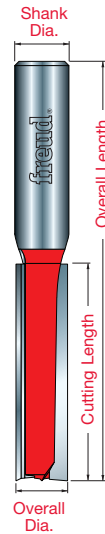
ROUTER BITS



13-122



13-142



Overall Dia.

## Downshear Helix Flush Trim Bits



## STRAIGHT, SPIRAL & TRIM BITS

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

### USE IN



Table Router

Hand Router

### APPLICATION

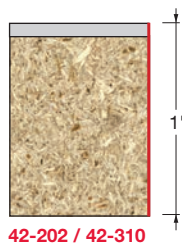
Trimming laminate counter tops and doing pattern work. Downcut spiral design produces an extra-clean top edge on delicate surfaces. Downshear cutting angle produces a slicing action for chip-free, splinter-free cuts and delivers easier, smooth cuts in thick materials.

### MATERIALS



Veneer

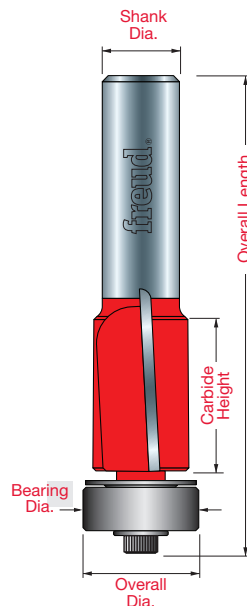
Laminate



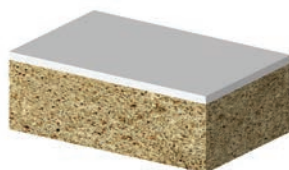
42-202 / 42-310



42-204



Overall Dia.

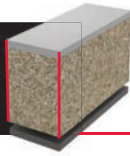


\* Solid Carbide

Red Item Numbers Indicate 1/2" Shank

All Profile Drawings 1:1 Scale

# STRAIGHT, SPIRAL & TRIM BITS



## Flush Trim Spiral Bits

### USE IN



Table Router Hand Router

### APPLICATION

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



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

### MATERIALS

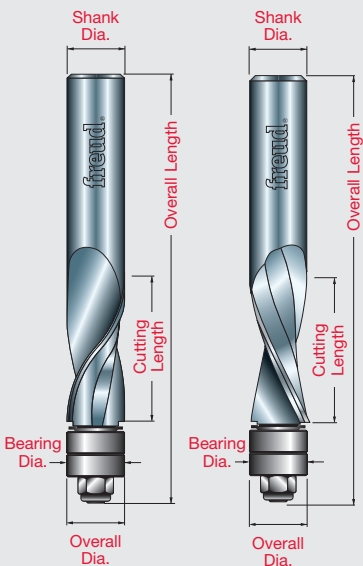


Hardwood Softwood

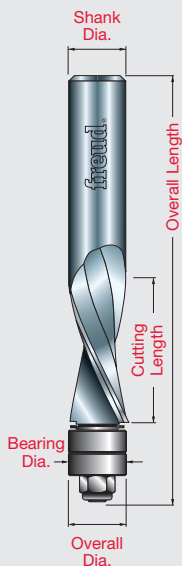


Veneer Melamine

#### Up Spiral Bits

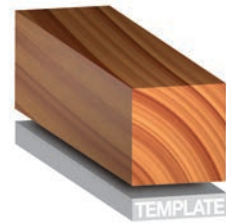
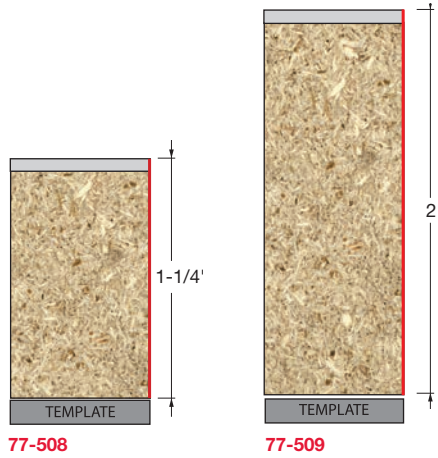


#### Down Spiral Bits



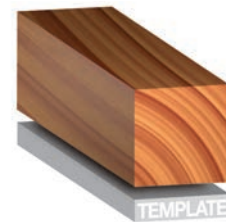
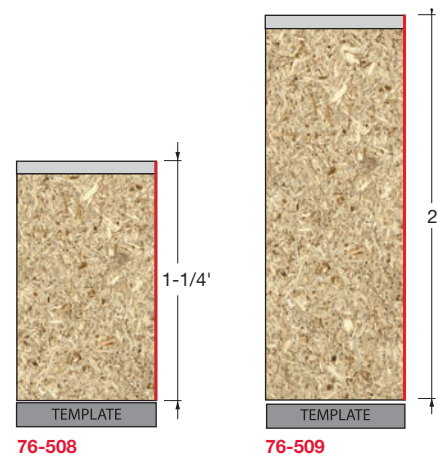
### Upcut Spiral Bits

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



### Downcut Spiral Bits

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

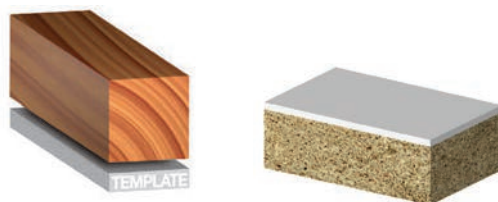
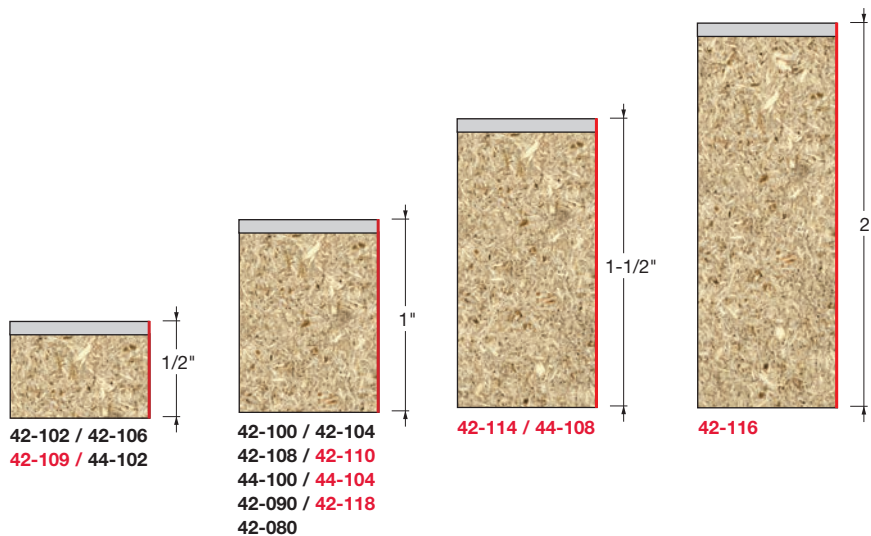


# Bearing Flush Trim Bits



# STRAIGHT, SPIRAL & TRIM BITS

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



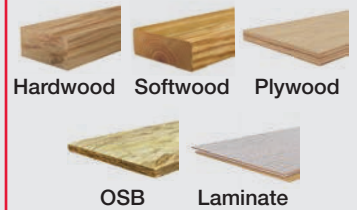
## USE IN



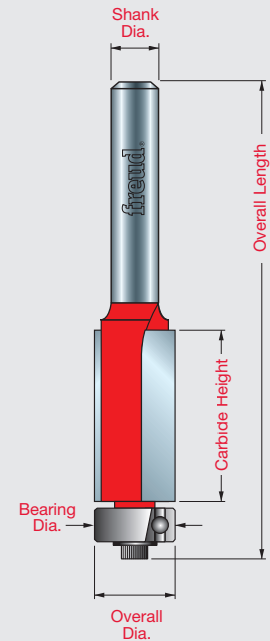
## APPLICATION

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

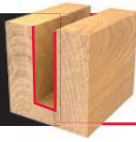
## MATERIALS



ROUTER BITS



# STRAIGHT, SPIRAL & TRIM BITS



## Top Bearing Flush Trim Bits

### USE IN



Table Router Hand Router

### APPLICATION

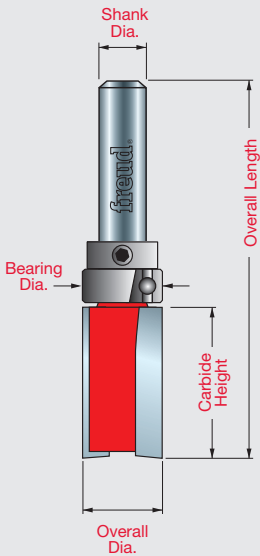
Template work and lettering. The top mounted bearings on these bits make them ideal for lettering and other template work where the work piece is being grooved or routed out.

### MATERIALS

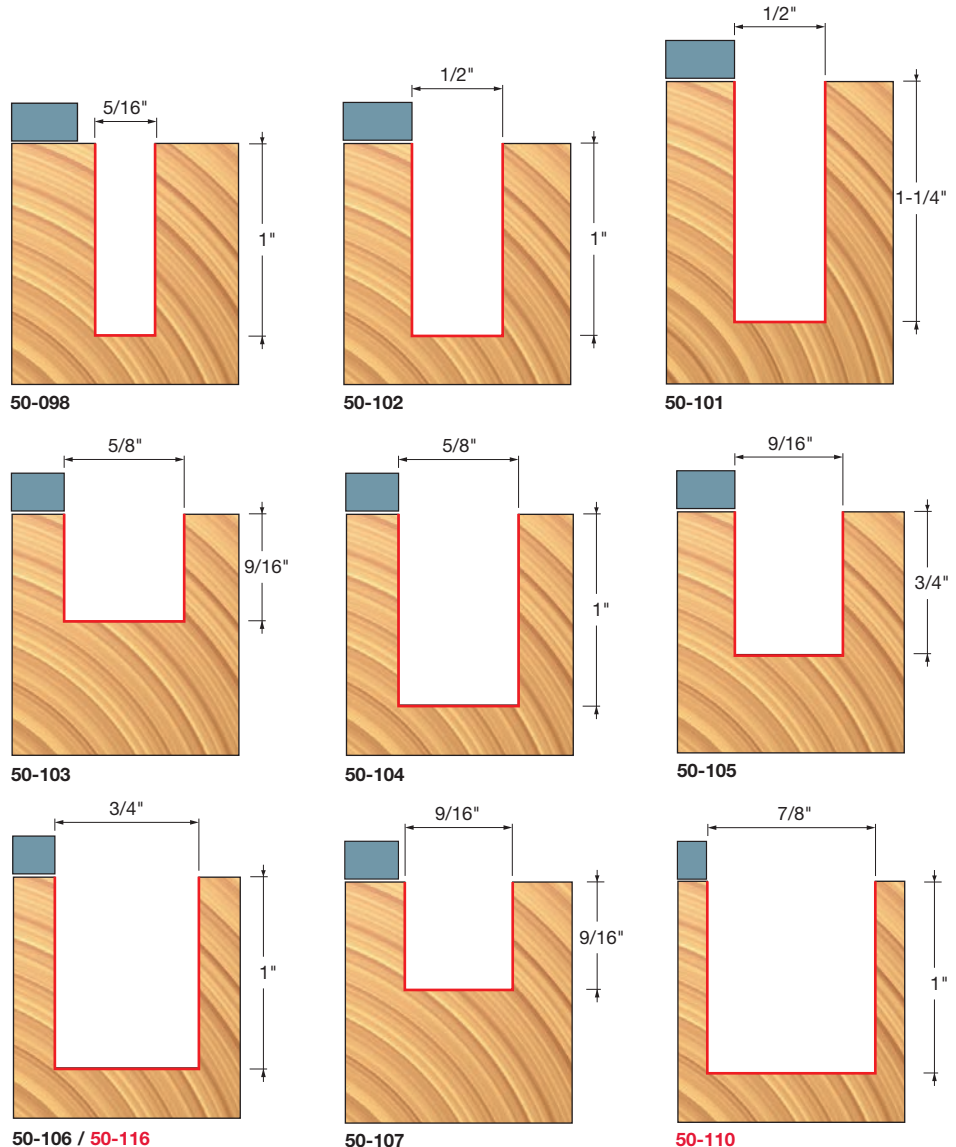


Hardwood Softwood

OSB Plywood



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



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

Red Item Numbers Indicate 1/2" Shank

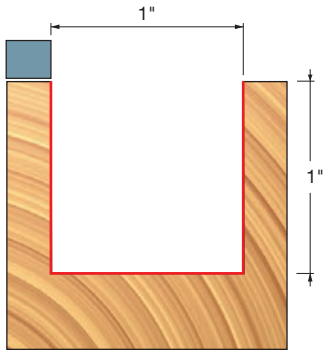
All Profile Drawings 1:1 Scale

# Top Bearing Flush Trim Bits

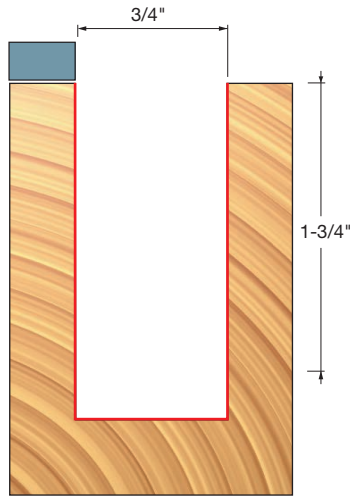


# STRAIGHT, SPIRAL & TRIM BITS

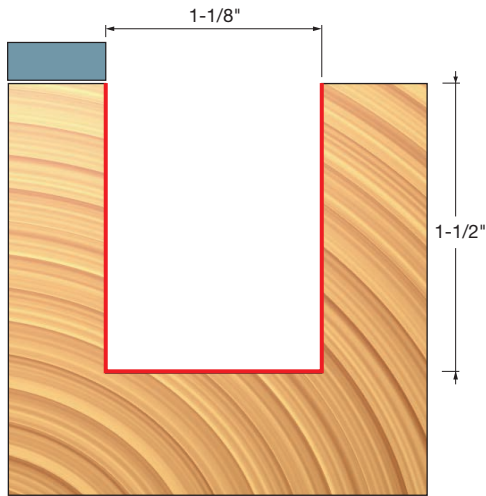
CONTINUED from page 103



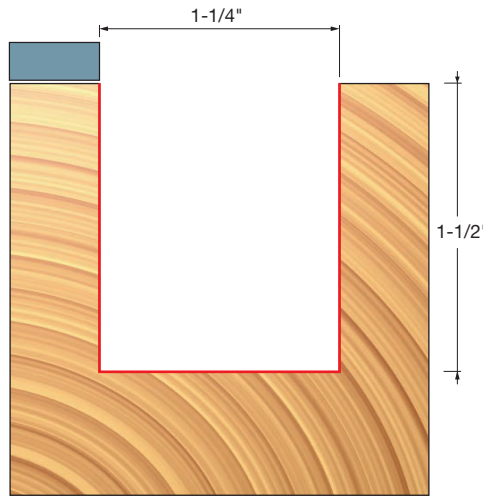
50-112



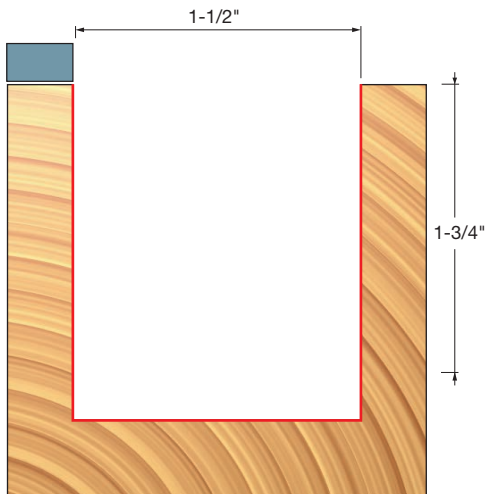
50-118



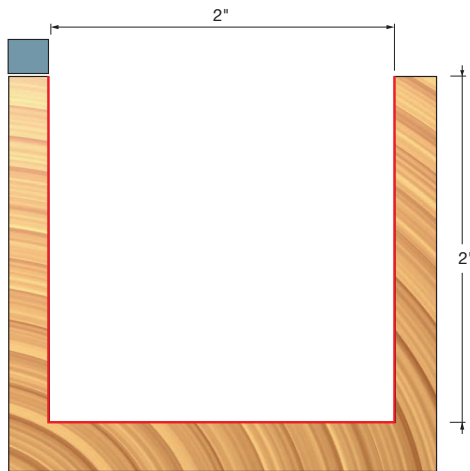
50-122



50-126



50-130



50-138

## USE IN

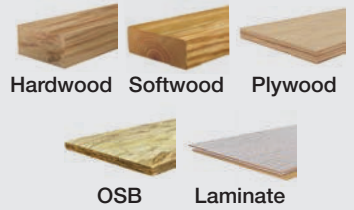


Table Router Hand Router

## APPLICATION

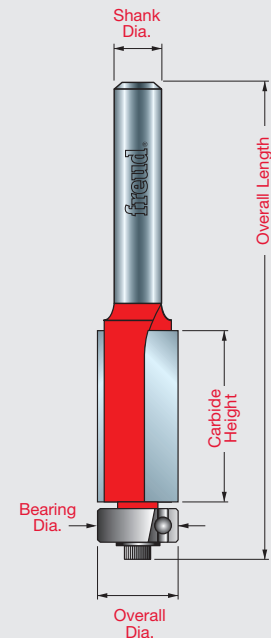
Trimming laminate counter tops and doing pattern work. These are the bits to rely on for a smooth, burn-free cut. Two flutes provide faster cutting and three flutes yield a superior finish.

## MATERIALS



Hardwood Softwood Plywood

OSB Laminate

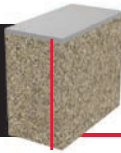


\* Solid Carbide

Red Item Numbers Indicate 1/2" Shank

All Profile Drawings 1:1 Scale

# STRAIGHT, SPIRAL & TRIM BITS



## Top & Bottom Bearing Flush Trim Bit

### USE IN



Table Router Hand Router

### APPLICATION

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

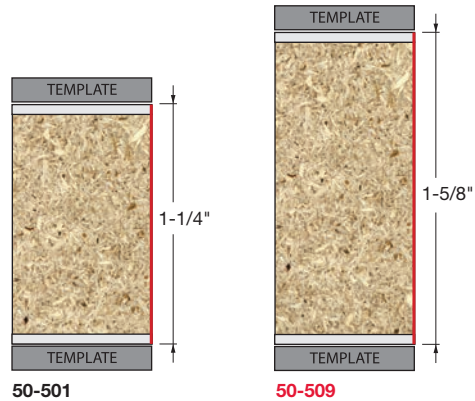
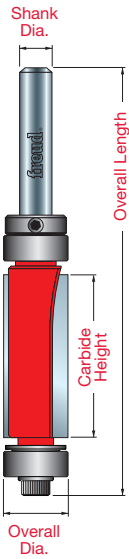
### MATERIALS



Hardwood Softwood

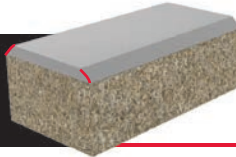
Veneer Laminate

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



ROUTER BITS

# STRAIGHT, SPIRAL & TRIM BITS



## Bevel Trim Bits

### USE IN



Table Router Hand Router

### APPLICATION

Cutting bevels in plastic laminates for a clean, finished edge

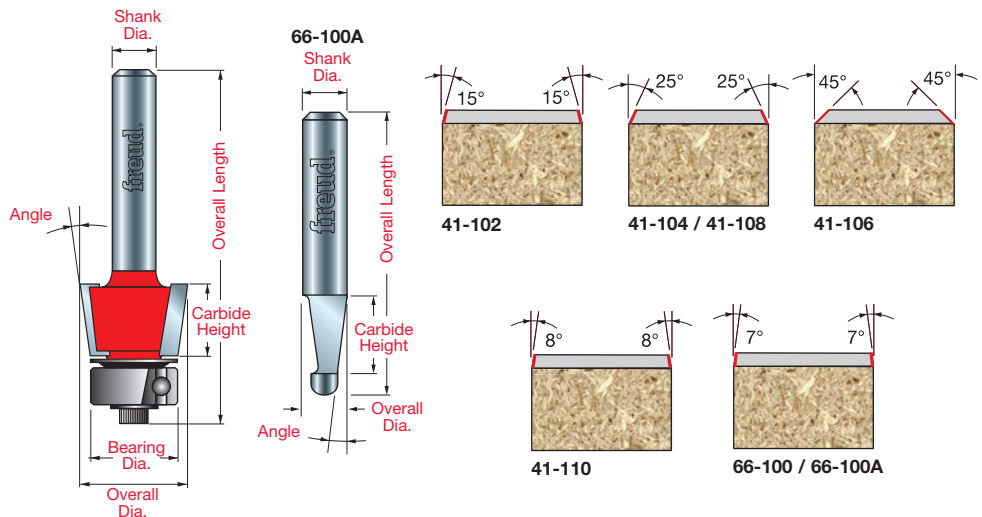
### MATERIALS



Hardwood Softwood

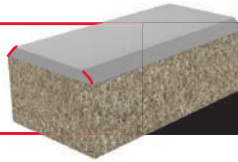
OSB Plywood

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



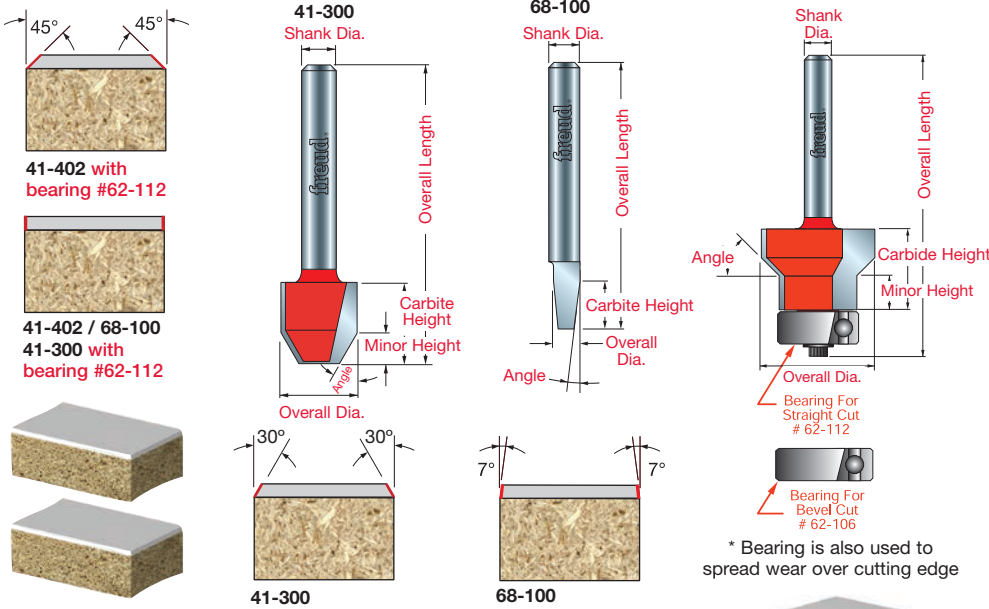


## Flush & Bevel Trim Bits



## STRAIGHT, SPIRAL & TRIM BITS

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



### USE IN

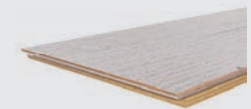


Table Router Hand Router

### APPLICATION

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

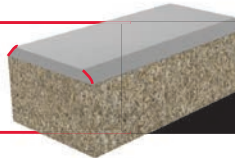
### MATERIALS



All Plastic Laminates

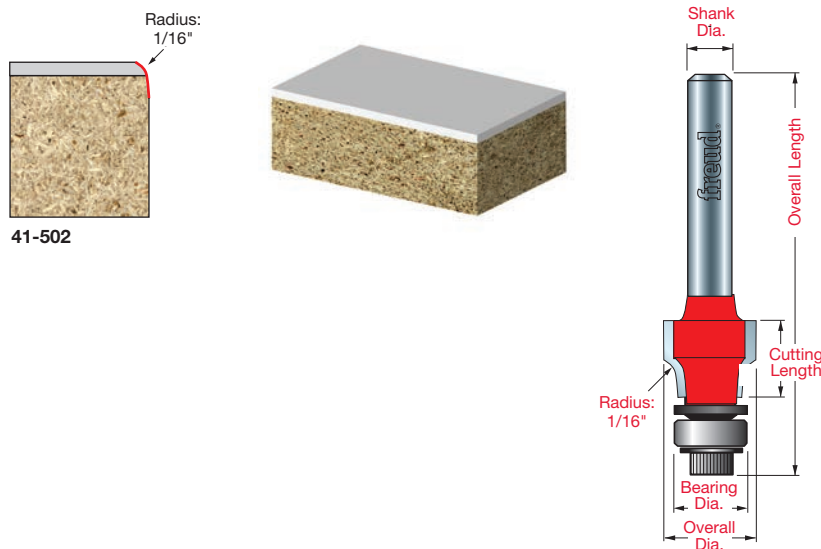
ROUTER BITS

## Radius Laminate Trim Bit



## STRAIGHT, SPIRAL & TRIM BITS

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



### USE IN



Table Router Hand Router

### APPLICATION

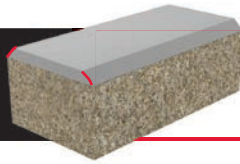
Routs plastic laminate edges flush and rounded in a single pass-reducing time and aggravation. Unique cutting geometry produces an ultra-smooth finish on laminate edges.

### MATERIALS



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

# STRAIGHT, SPIRAL & TRIM BITS



## Insert Bevel Trim Bits

### USE IN

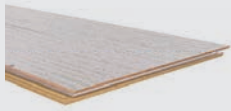


Table Router Hand Router

### APPLICATION

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

### MATERIALS

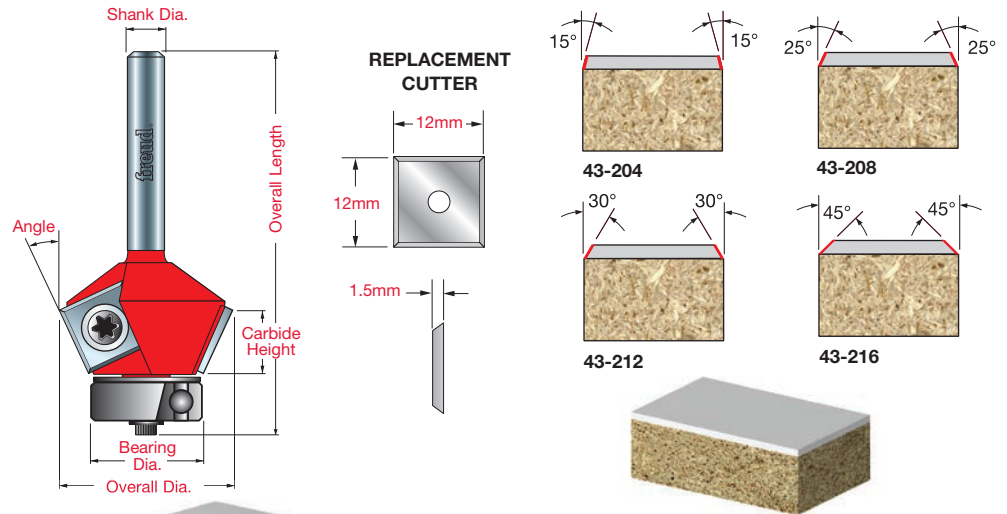


Plastic Laminate

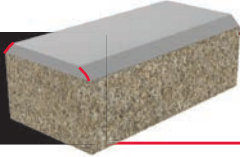
ITEM NUMBER	OVERALL DIA.	BEARING DIA.	CARBIDE HEIGHT	ANGLE	SHANK DIA.	OVERALL LENGTH
43-204	15/16"	3/4"	29/64"	15°	1/4"	2-1/4"
43-208	1-1/8"	3/4"	7/16"	25°	1/4"	2-1/4"
43-212	1-11/64"	3/4"	13/32"	30°	1/4"	2-5/16"
43-216	1-23/64"	3/4"	15/64"	45°	1/4"	2-5/8"

### Replacement Cutters

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



## Laminate Miter Joint Bits

### USE IN

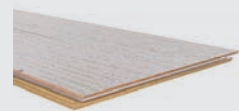


Table Router Hand Router

### APPLICATION

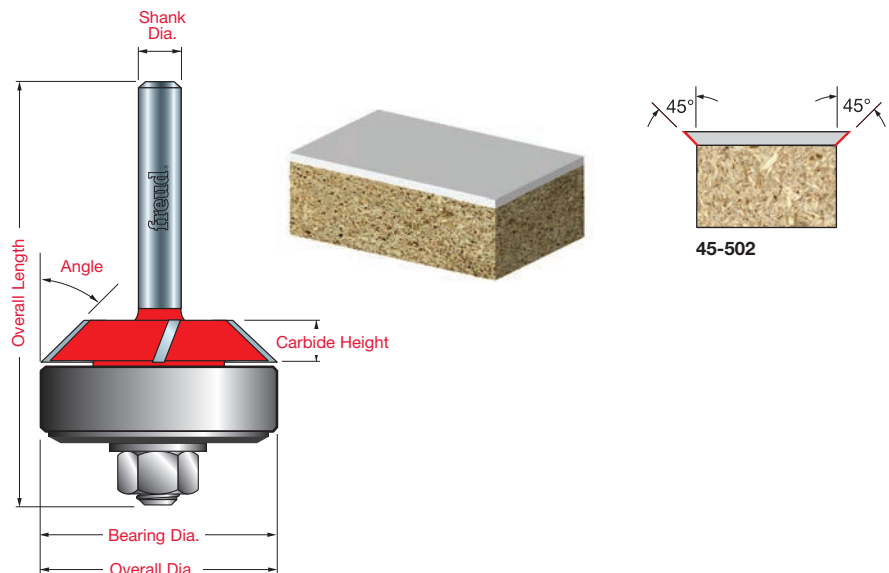
Cut plastic laminates quickly and cleanly and help eliminate the dark line often seen on the edge of counter tops by producing 45° miter joints

### MATERIALS

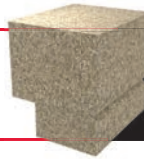


Plastic Laminate

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

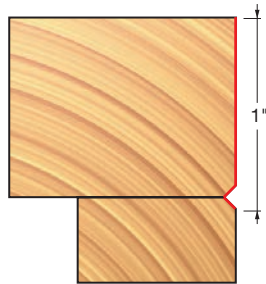


# Flush Trim "V" Groove Bits



# STRAIGHT, SPIRAL & TRIM BITS

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



48-102 / 48-112

## USE IN



Table Router Hand Router

## APPLICATION

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

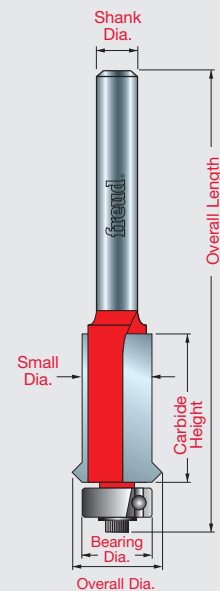
## MATERIALS



Hardwood Softwood

OSB Plywood

ROUTER BITS

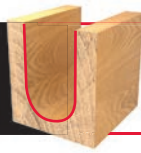


\* Solid Carbide

Red Item Numbers Indicate 1/2" Shank

All Profile Drawings 1:1 Scale

# EDGE TREATMENT & GROOVING BITS



## Round Nose Bits

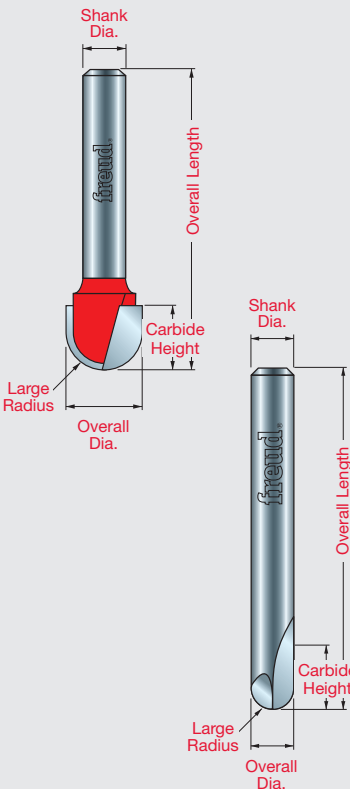
### USE IN



### APPLICATION

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

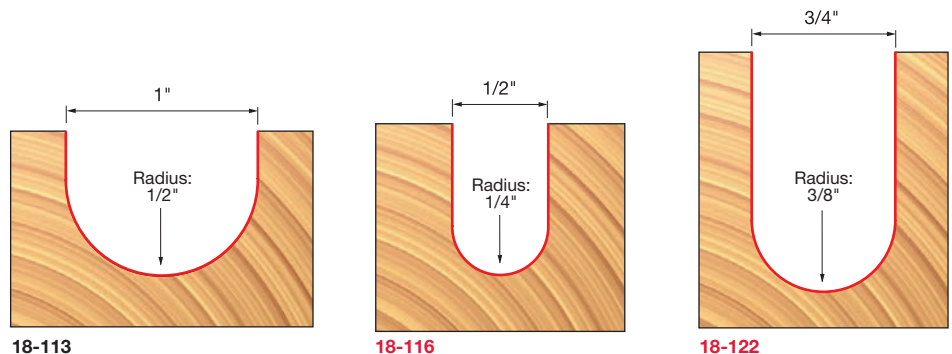
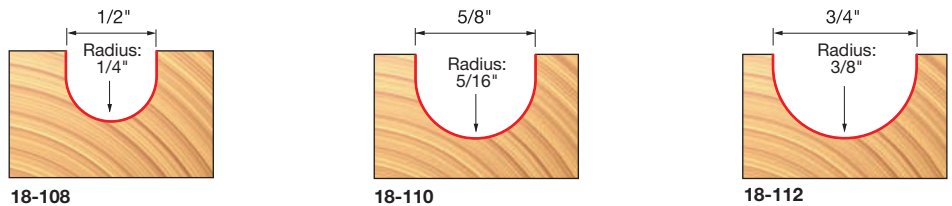
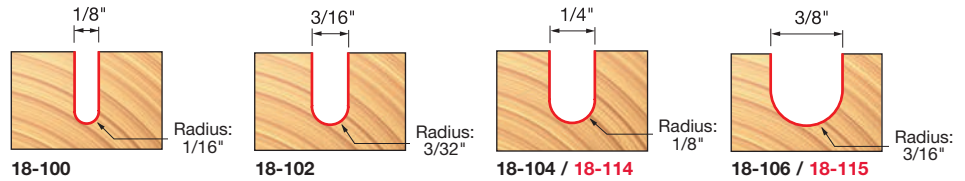
### MATERIALS



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

### Top Bearing Round Nose Bits

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

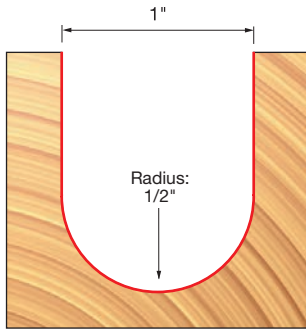


# Round Nose Bits

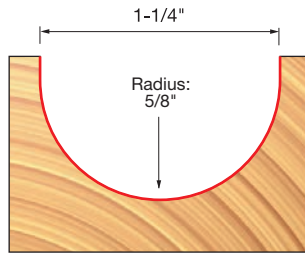


# EDGE TREATMENT & GROOVING BITS

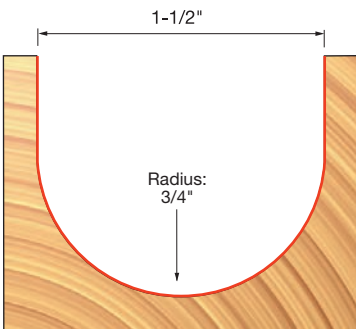
CONTINUED



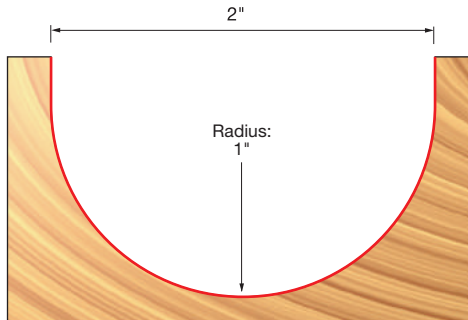
18-126



18-130

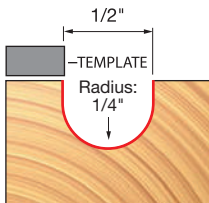


18-134

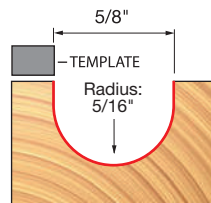


18-138

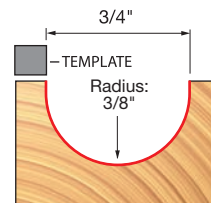
## Top Bearing Round Nose Bits



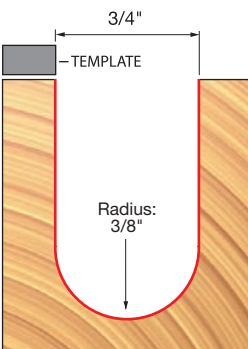
18-508 Top Bearing



18-510 Top Bearing



18-512 Top Bearing



18-522 Top Bearing

### USE IN



Table Router

Hand Router

CNC

### APPLICATION

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

### MATERIALS



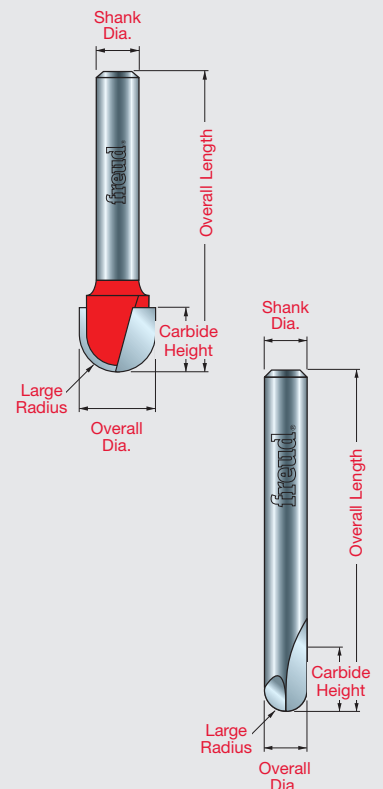
Hardwood

Softwood

MDF

Plywood

ROUTER BITS



\* Solid Carbide

Red Item Numbers Indicate 1/2" Shank

All Profile Drawings 1:1 Scale

# EDGE TREATMENT & GROOVING BITS



## Dish Carving Bits

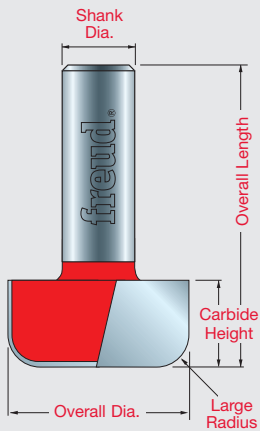
### USE IN



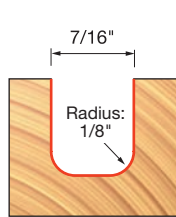
### APPLICATION

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

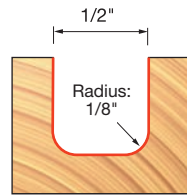
### MATERIALS



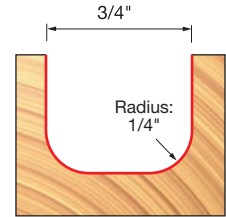
ITEM NUMBER	OVERALL DIA.	CARBIDE HEIGHT	RADIUS	SHANK DIA.	OVERALL LENGTH
19-102	7/16"	1/2"	1/8"	1/4"	2"
19-104	1/2"	1/2"	1/8"	1/4"	2-1/8"
19-126	3/4"	5/8"	1/4"	1/2"	2-5/8"
99-026	1-1/4"	19/32"	1/4"	1/2"	2-1/16"
Top Bearing Round Nose Bits					
19-506	3/4"	5/8"	1/4"	1/4"	2-5/16"
19-576	3/4"	5/8"	1/4"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



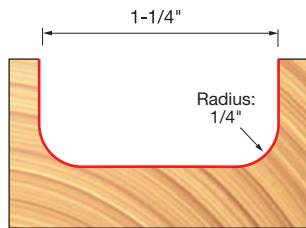
19-102



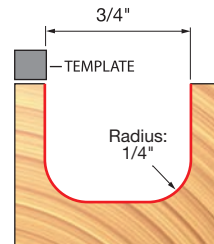
19-104



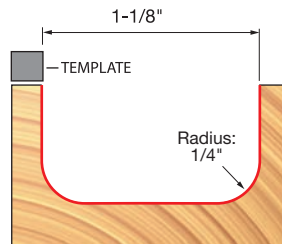
19-126



99-026



19-506 Top Bearing  
19-576 Top Bearing



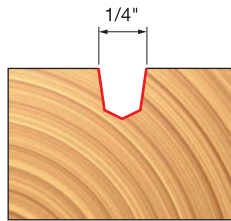
19-578 Top Bearing

## "V" Veining Bit

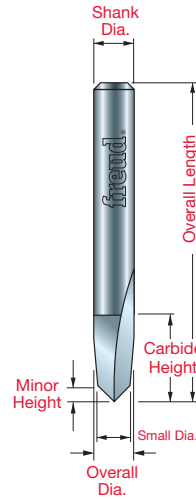


## EDGE TREATMENT & GROOVING BITS

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



70-102



### USE IN



Hand Router

CNC

### APPLICATION

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

### MATERIALS



Hardwood

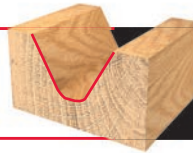
Softwood

MDF

Plywood

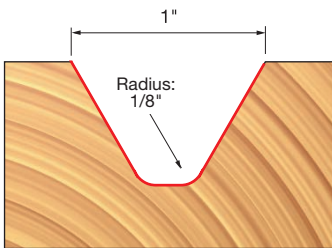
ROUTER BITS

## Lettering Bits

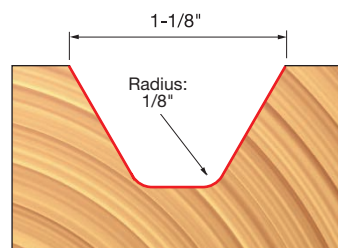


## EDGE TREATMENT & GROOVING BITS

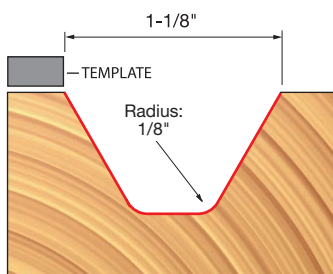
ITEM NUMBER	OVERALL DIA.	BEARING DIA.	CARBIDE HEIGHT	RADIUS	SHANK DIA.	OVERALL LENGTH
20-172	1"	-	3/4"	1/8"	1/4"	2"
20-174	1-1/8"	-	3/4"	1/8"	1/2"	2-1/4"
<b>Top Bearing Lettering Bits</b>						
20-574	1-1/8"	1-1/8"	3/4"	1/8"	1/2"	2-13/32"



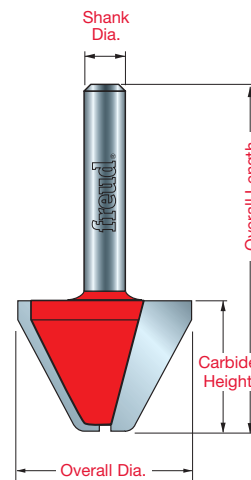
20-172



20-174



20-574 Top Bearing



### USE IN



Hand Router

CNC

### APPLICATION

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

### MATERIALS



Hardwood

Softwood

MDF

Plywood

\* Solid Carbide

Red Item Numbers Indicate 1/2" Shank

All Profile Drawings 1:1 Scale

# EDGE TREATMENT & GROOVING BITS



## "V" Grooving Bits

### USE IN



Table Router

Hand Router

CNC

### APPLICATION

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

### MATERIALS

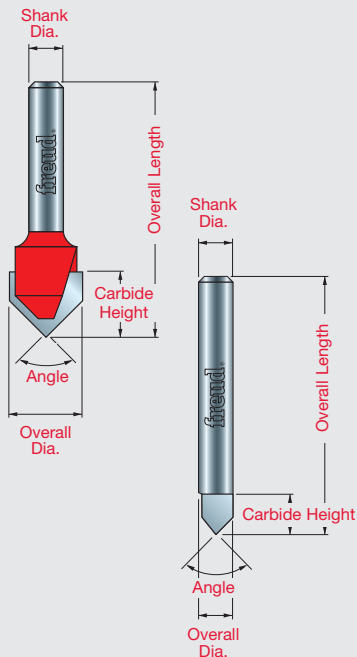


Hardwood

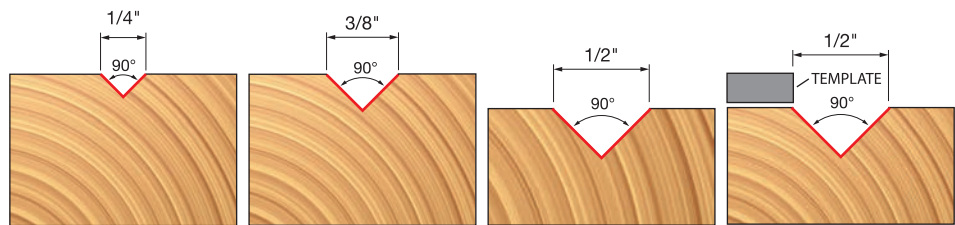
Softwood

MDF

Plywood



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

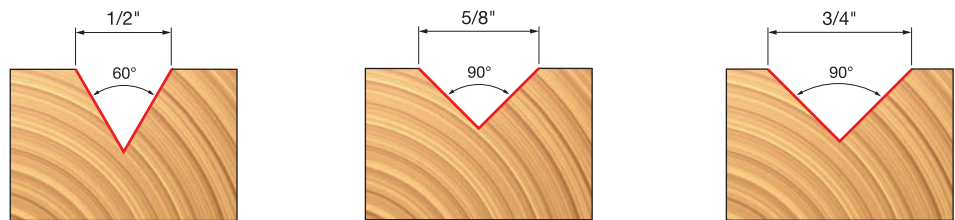


20-100

20-102 / 20-107

20-104 / 20-109

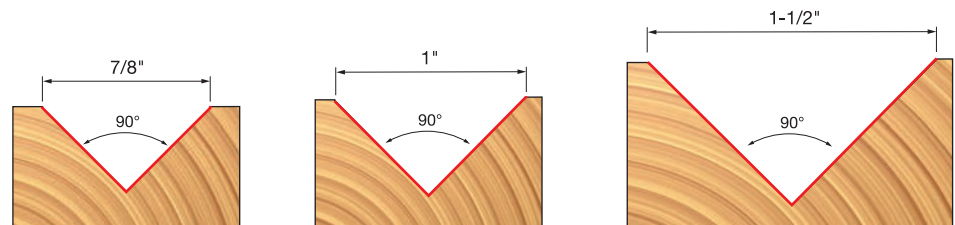
20-502 Top Bearing



20-152

20-106

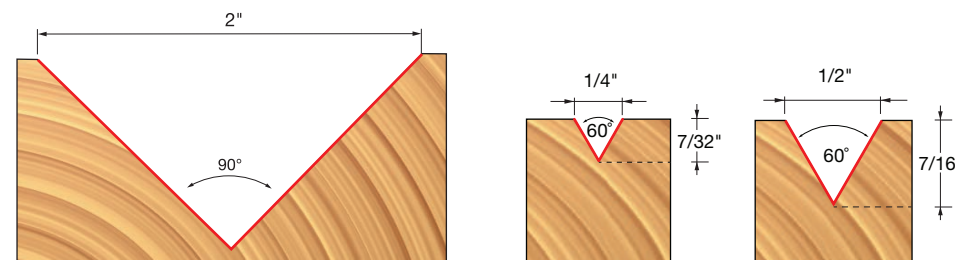
20-108



20-110

20-112

20-116



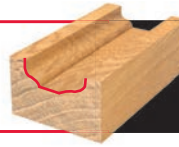
20-120

20-150

20-154

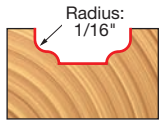


## Ogee Groove Bits

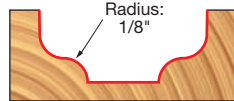


## EDGE TREATMENT & GROOVING BITS

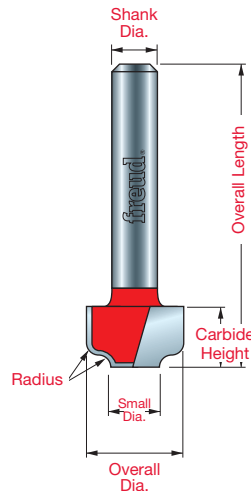
ITEM NUMBER	OVERALL DIA.	SMALL DIA.	CARBIDE HEIGHT	RADIUS	SHANK DIA.	OVERALL LENGTH
39-152	1/2"	1/4"	5/16"	1/16"	1/4"	1-9/16"
39-154	7/8"	3/8"	13/32"	1/8"	1/4"	1-11/16"



39-152



39-154



### USE IN



### APPLICATION

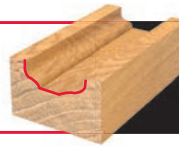
Create beautiful decorative grooves in molding and furniture, or use them with an edge guide to produce an ogee edge profile

### MATERIALS



ROUTER BITS

## Cove & Bead Groove Bits

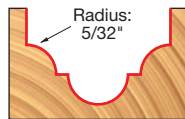


## EDGE TREATMENT & GROOVING BITS

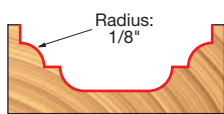
ITEM NUMBER	OVERALL DIA.	BEARING DIA.	CARBIDE HEIGHT	RADIUS	SHANK DIA.	OVERALL LENGTH
39-100	3/4"	9/16"	3/8"	3/32"	1/4"	1-5/8"
39-101	3/4"	5/16"	1/2"	5/32"	1/4"	1-3/4"
39-102	1"	3/4"	1/2"	1/8"	1/4"	1-3/4"
39-112	1-1/4"	25/32"	1/2"	5/32"	1/2"	2



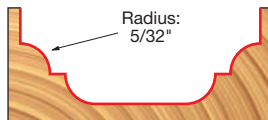
39-100



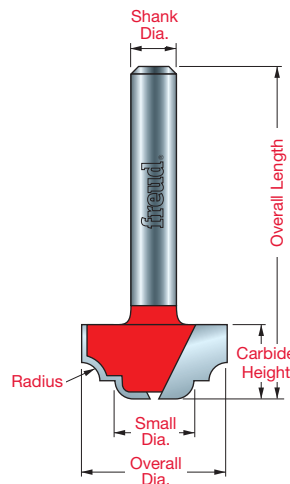
39-101



39-102



39-112



### USE IN



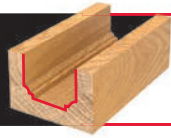
### APPLICATION

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

### MATERIALS

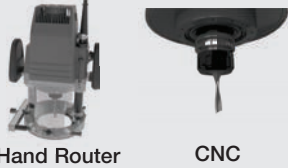


# EDGE TREATMENT & GROOVING BITS



## Classical Beading Groove Bits

### USE IN



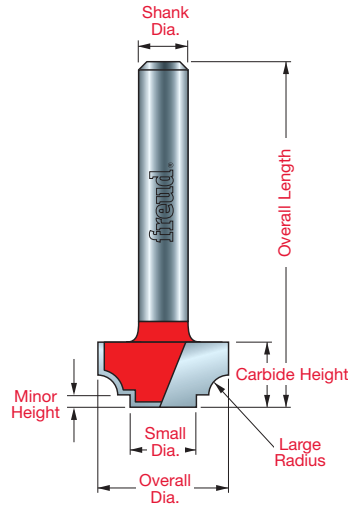
### APPLICATION

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

### MATERIALS

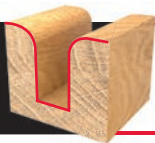


ITEM NUMBER	OVERALL DIA.	SMALL DIA.	CARBIDE HEIGHT	MINOR HEIGHT	RADIUS	SHANK DIA.	OVERALL LENGTH
39-302	1/2"	21/64"	3/8"	3/64"	3/64"	1/4"	1-5/8"
39-304	5/8"	5/16"	3/8"	3/64"	3/32"	1/4"	1-5/8"
39-306	7/8"	15/32"	29/64"	5/64"	1/8"	1/4"	1-23/32



ROUTER BITS

# EDGE TREATMENT & GROOVING BITS



## Ovolo Bits

### USE IN



### APPLICATION

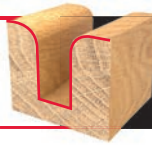
Template work & cutting openings in paneling, siding, etc. The drill through point allows self-starting, and the pilot acts as a guide for template work.

### MATERIALS



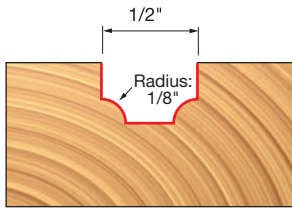
ITEM NUMBER	OVERALL DIA.	BEARING DIA.	CARBIDE HEIGHT	RADIUS	SHANK DIA.	OVERALL LENGTH
39-202	1/2"	1/4"	5/16"	1/8"	1/4"	1-3/4"
39-204	7/8"	1/2"	1/2"	3/16"	1/4"	1-3/4"
39-205	7/8"	1/4"	5/8"	1/4"	1/4"	2"
39-206	1"	1/2"	1/2"	1/4"	1/4"	1-3/4"
39-208	1-1/4"	1/2"	9/16"	3/8"	1/4"	1-13/16"
39-210	1-1/2"	1/2"	3/4"	1/2"	1/4"	2"
39-226	1"	1/2"	1/2"	1/4"	1/2"	2"
39-228	1-1/4"	1/2"	9/16"	3/8"	1/2"	2-1/16"
39-230	1-1/2"	1/2"	3/4"	1/2"	1/2"	2-1/4"
39-232	1-3/4"	1/2"	7/8"	5/8"	1/2"	2-3/8"
39-234	2"	1/2"	1"	3/4"	1/2"	2-1/2"
39-236	2-1/4"	1/2"	11/8"	7/8"	1/2"	2-5/8"
39-252	1-1/8"	1/2"	1-7/32"	1/4"	1/2"	2-23/32"
39-238	2-1/2"	1/2"	1-5/16"	1"	1/2"	2-13/16"

# Ovolo Bits

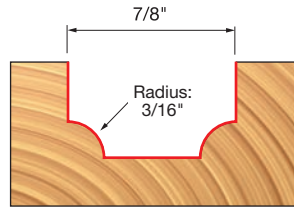


# EDGE TREATMENT & GROOVING BITS

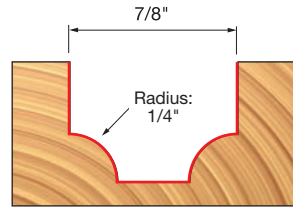
CONTINUED



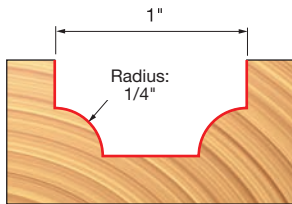
39-202



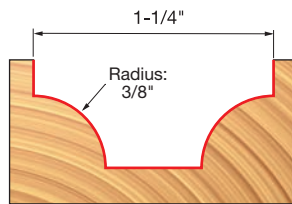
39-204



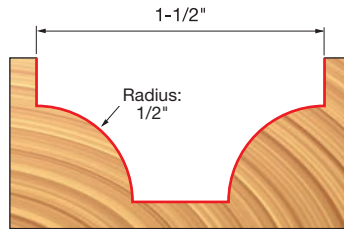
39-205



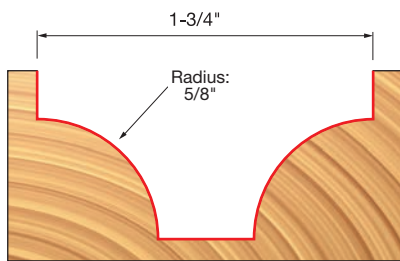
39-206 / 39-226



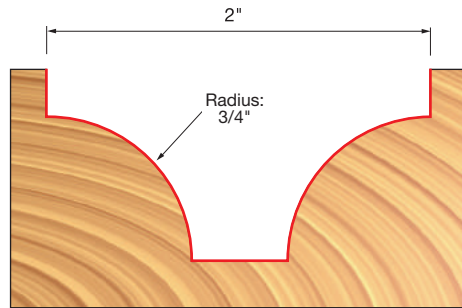
39-208 / 39-228



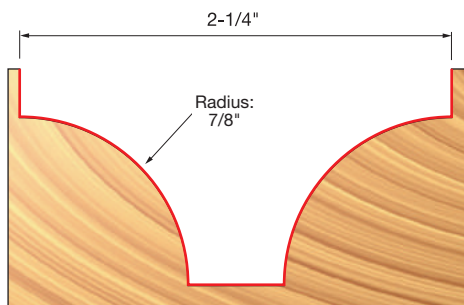
39-210 / 39-230



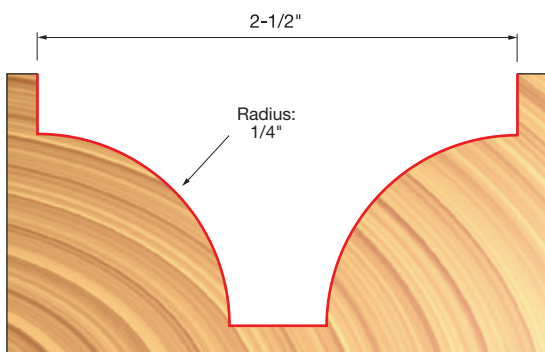
39-232



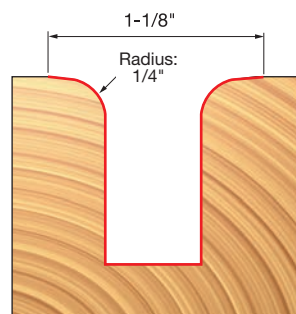
39-234



39-236



39-238



39-252

## USE IN



Table Router

Hand Router

CNC

## APPLICATION

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

## MATERIALS

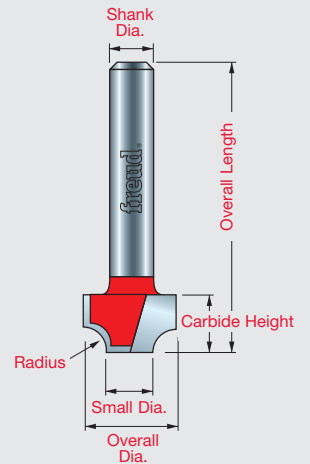


Hardwood

Softwood

MDF

Plywood

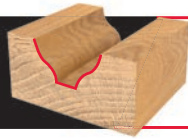


\* Solid Carbide

Red Item Numbers Indicate 1/2" Shank

All Profile Drawings 1:1 Scale

# EDGE TREATMENT & GROOVING BITS



## Standard Ogee Groove Bits

### USE IN



Table Router

Hand Router

CNC

### APPLICATION

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

### MATERIALS



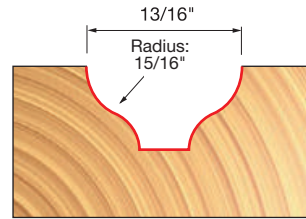
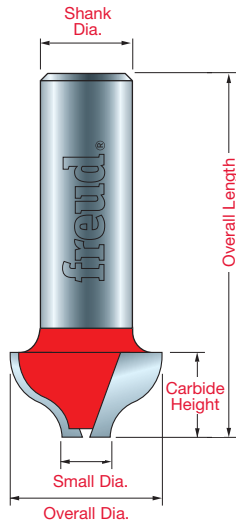
Hardwood

Softwood

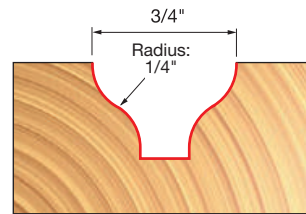
MDF

Plywood

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

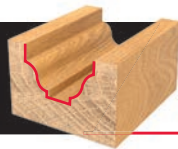


99-004



39-240

# EDGE TREATMENT & GROOVING BITS



## Top Bearing Fillet Ogee Groove Bits

### USE IN



Table Router

Hand Router

CNC

### APPLICATION

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

### MATERIALS



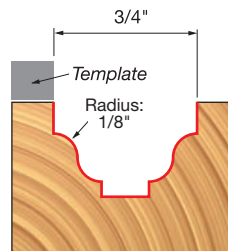
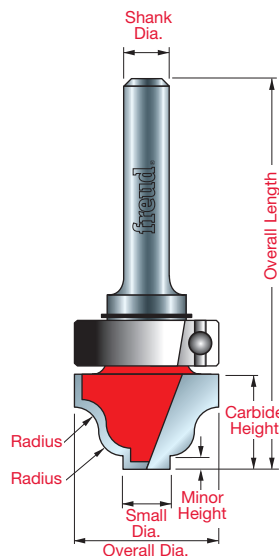
Hardwood

Softwood

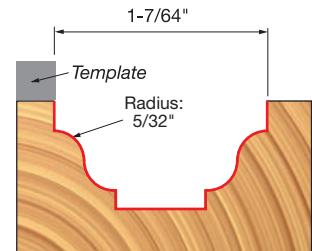
MDF

Plywood

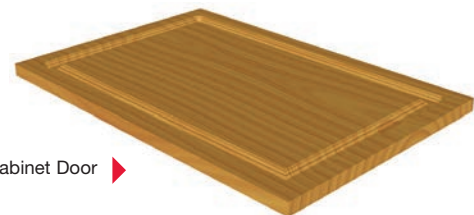
ITEM NUMBER	OVERALL DIA.	SMALL DIA.	CARBIDE HEIGHT	MINOR HEIGHT	RADIUS	SHANK DIA.	OVERALL LENGTH
39-522	3/4"	1/4"	1/2"	5/32"	1/8"	1/4"	2-3/16"
39-524	1-7/64"	15/32"	9/16"	5/32"	5/32"	3/8"	2-1/4"



39-522

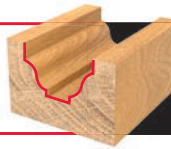


39-524



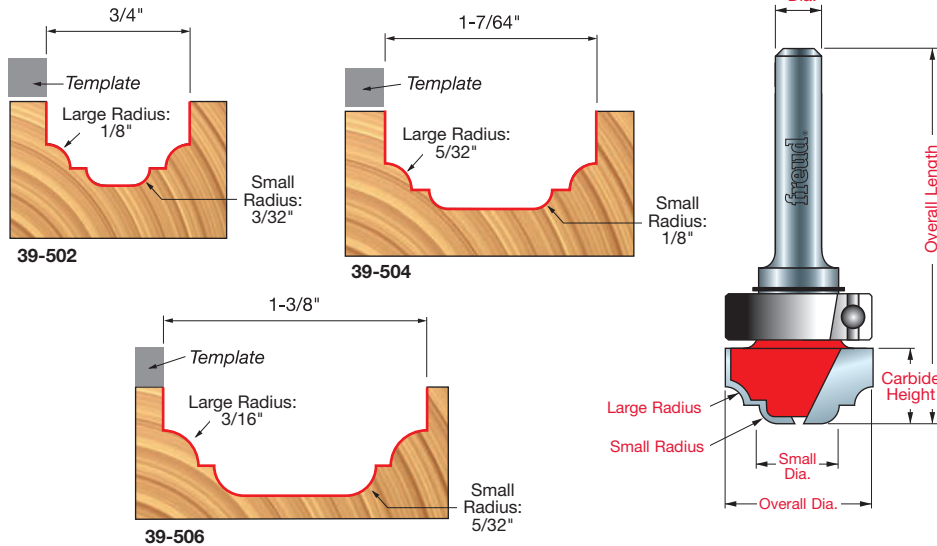
Example of Cabinet Door

## Top Bearing Classical Cove & Bead Groove Bits



## EDGE TREATMENT & GROOVING BITS

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



### USE IN



### APPLICATION

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

### MATERIALS



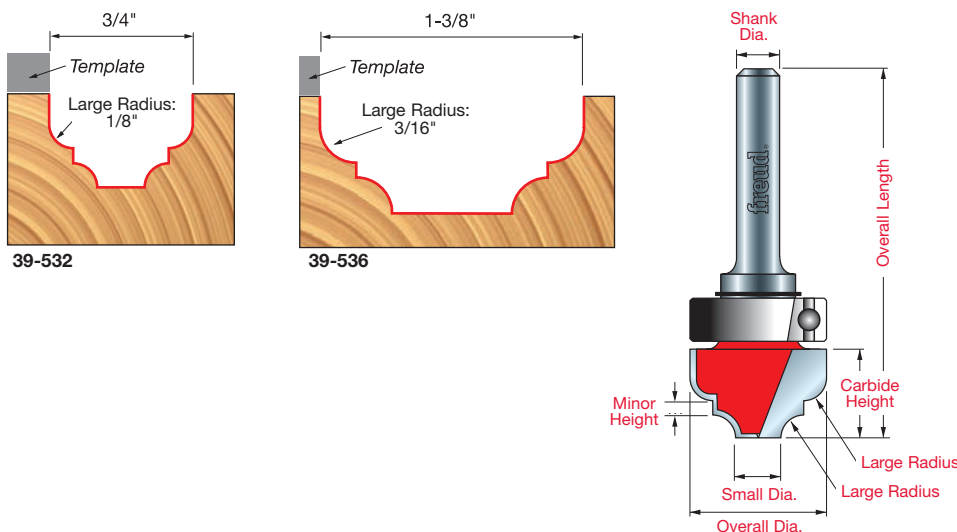
ROUTER BITS

## Top Bearing Cove & Bead Groove Bit



## EDGE TREATMENT & GROOVING BITS

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



### USE IN



### APPLICATION

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

### MATERIALS



\* Solid Carbide

Red Item Numbers Indicate 1/2" Shank

All Profile Drawings 1:1 Scale

# EDGE TREATMENT & GROOVING BITS



## Radius "V" Grooving Bits

### USE IN



Table Router

Hand Router

CNC

### APPLICATION

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

### MATERIALS



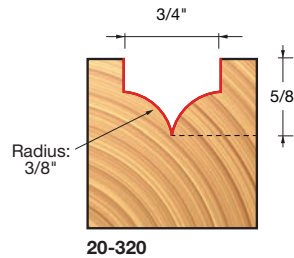
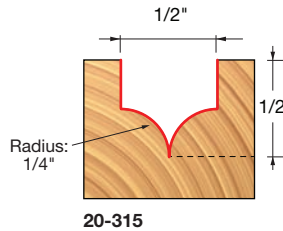
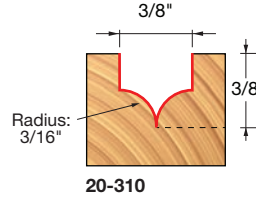
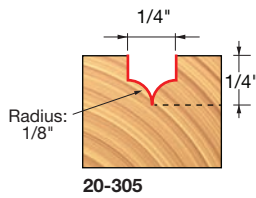
Hardwood

Softwood

MDF

Plywood

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



# EDGE TREATMENT & GROOVING BITS



## Engraving "V" Grooving Bits

### USE IN



Table Router

Hand Router

CNC

### APPLICATION

CNC Carving, Engraving, Signmaking & Veining

### MATERIALS



Hardwood

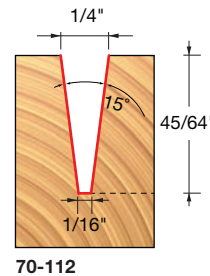
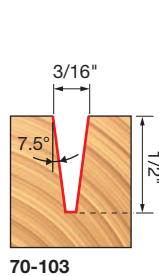
Softwood

MDF

Plastic

Aluminum

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

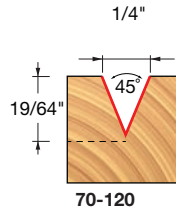
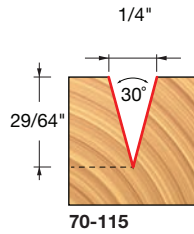
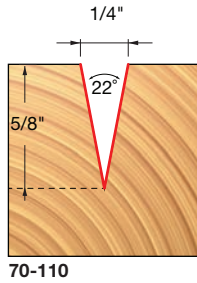


## Detail Carving Bit



## EDGE TREATMENT & GROOVING BITS

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



### USE IN



### APPLICATION

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

### MATERIALS



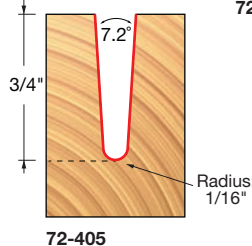
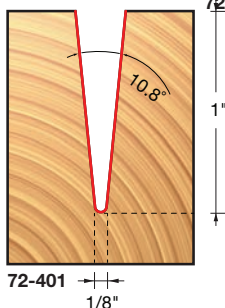
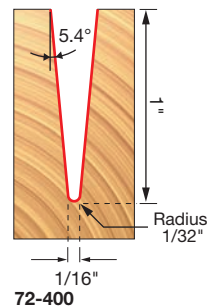
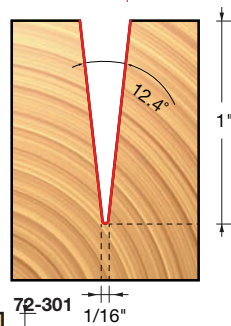
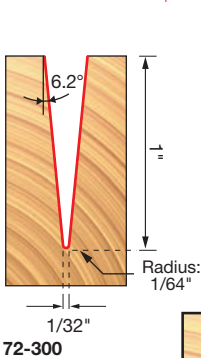
ROUTER BITS

## Tapered Ball Tip Bits



## EDGE TREATMENT & GROOVING BITS

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



### USE IN



### APPLICATION

CNC Carving, Engraving, Signmaking & Veining

### MATERIALS

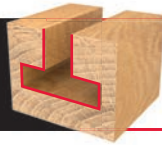


\* Solid Carbide

Red Item Numbers Indicate 1/2" Shank

All Profile Drawings 1:1 Scale

# EDGE TREATMENT & GROOVING BITS



## T-Slotting Cutter Bits

### USE IN



### APPLICATION

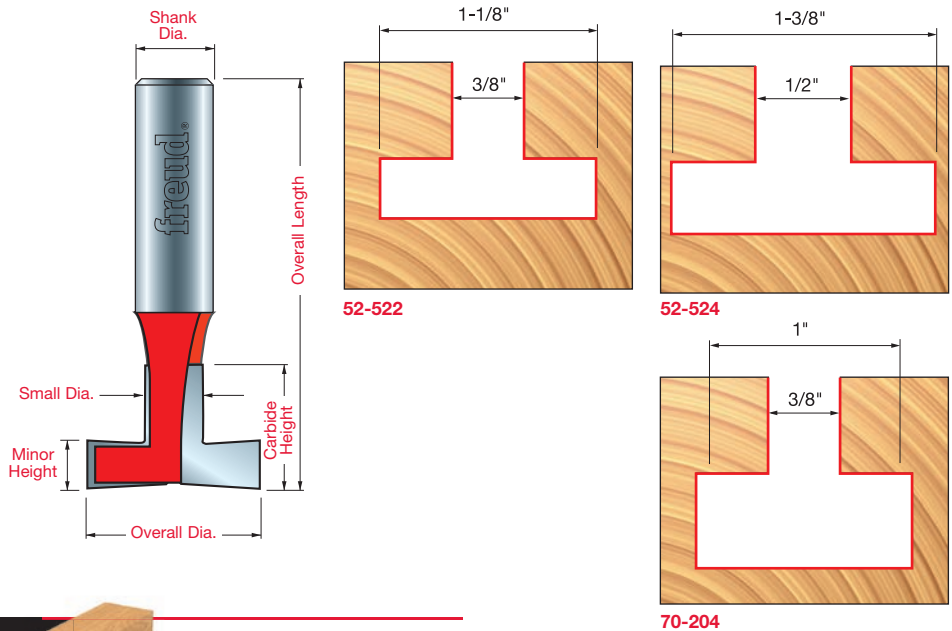
Build your own sturdy, attractive, slotted wall displays hanging by a hook

### MATERIALS

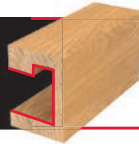


ROUTER BITS

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

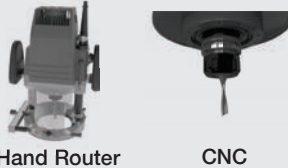


# EDGE TREATMENT & GROOVING BITS



## Key Hole Bit

### USE IN



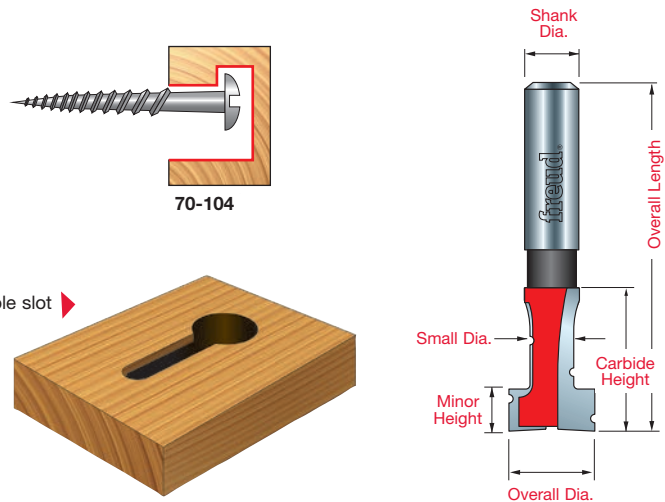
### APPLICATION

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

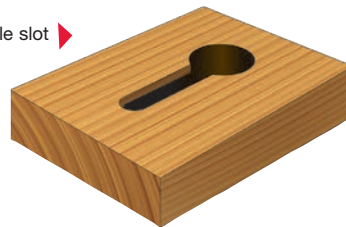
### MATERIALS



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



Example of Key Hole slot ▶



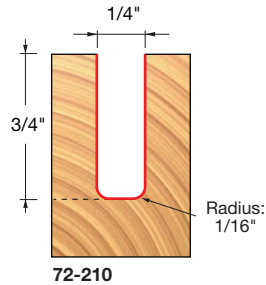


## Radius Tip Up Cut Spiral Bit



## EDGE TREATMENT & GROOVING BITS

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



### USE IN



Table Router

Hand Router

CNC

### APPLICATION

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

### MATERIALS



Hardwood

Softwood

MDF

Plywood

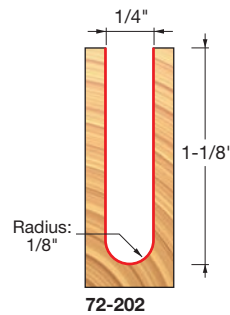
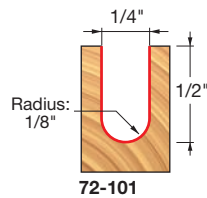
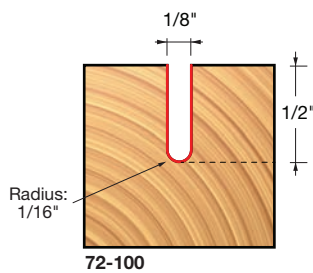
ROUTER BITS

## Up Cut Spiral Ball Nose Bits



## EDGE TREATMENT & GROOVING BITS

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



### USE IN



Table Router

Hand Router

CNC

### APPLICATION

CNC carving, engraving, signmaking & grooving or edge work

### MATERIALS



MDF

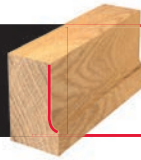
Hardwood

Softwood

Plastic

Aluminum

# EDGE TREATMENT & GROOVING BITS



## Cove Bits

### USE IN



Table Router Hand Router

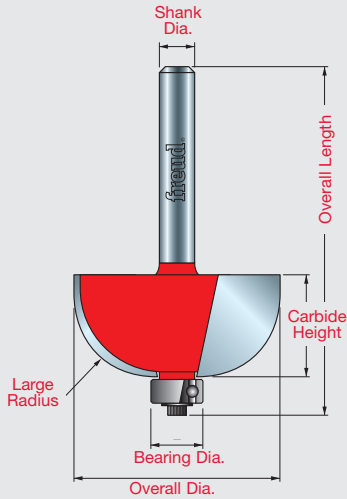
### APPLICATION

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

### MATERIALS



Hardwood Softwood MDF  
Plywood Laminate



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



30-094



30-098



30-100 / 30-109



30-102 / 30-110



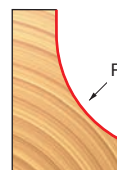
30-103 / 30-111



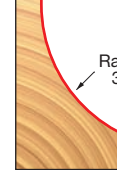
30-104 / 30-112



30-106 / 30-114

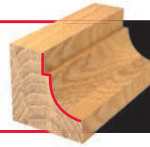


30-107



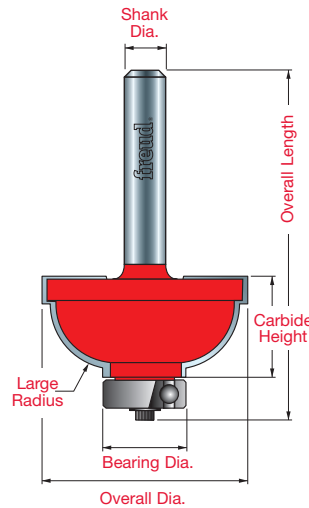
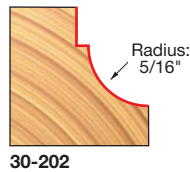
30-108

## Cove & Fillet Bits



# EDGE TREATMENT & GROOVING BITS

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



### USE IN



### APPLICATION

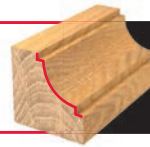
Produces a smooth cove with a small fillet at the top, a profile found in many traditional pieces of furniture and millwork

### MATERIALS



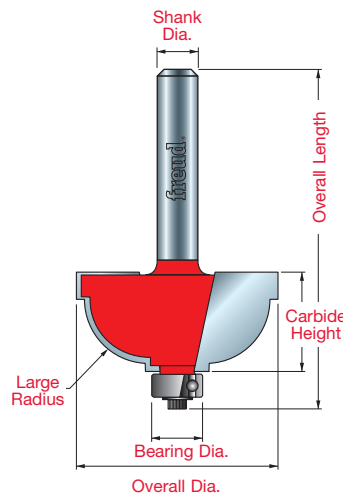
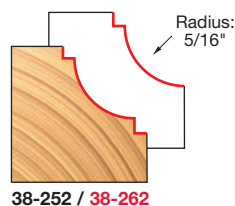
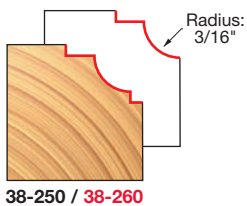
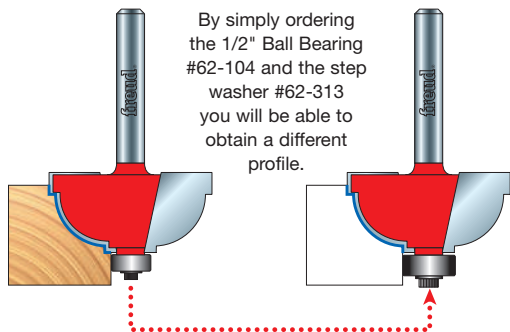
ROUTER BITS

## Classical Cove Bits



# EDGE TREATMENT & GROOVING BITS

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



### USE IN



### APPLICATION

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

### MATERIALS

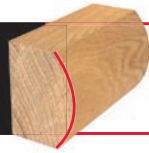


\* Solid Carbide

Red Item Numbers Indicate 1/2" Shank

All Profile Drawings 1:1 Scale

# EDGE TREATMENT & GROOVING BITS



## Convex Edge Bit

### USE IN



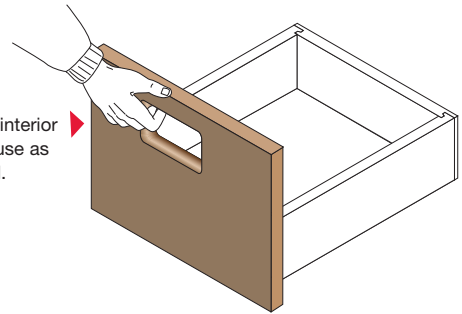
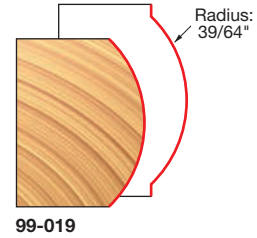
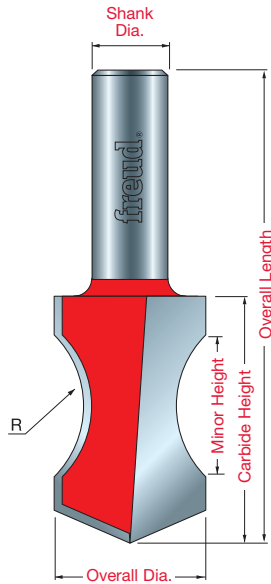
### APPLICATION

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

### MATERIALS



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



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

ROUTER BITS

# EDGE TREATMENT & GROOVING BITS



## Rounding Over Bits

### USE IN



### APPLICATION

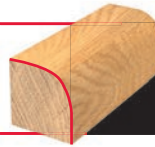
Soften furniture edges and create decorative beads. For beading work, equip the bits with a 1/8" smaller bearing and step washer.

### MATERIALS



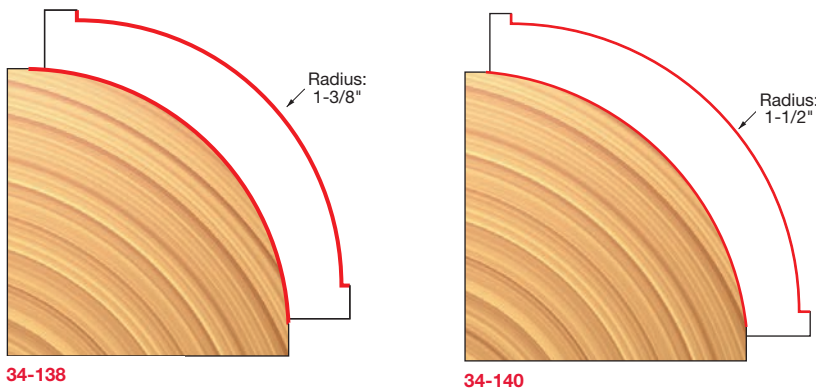
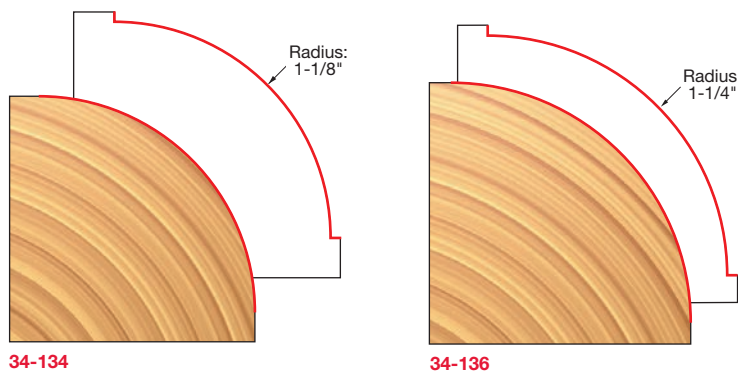
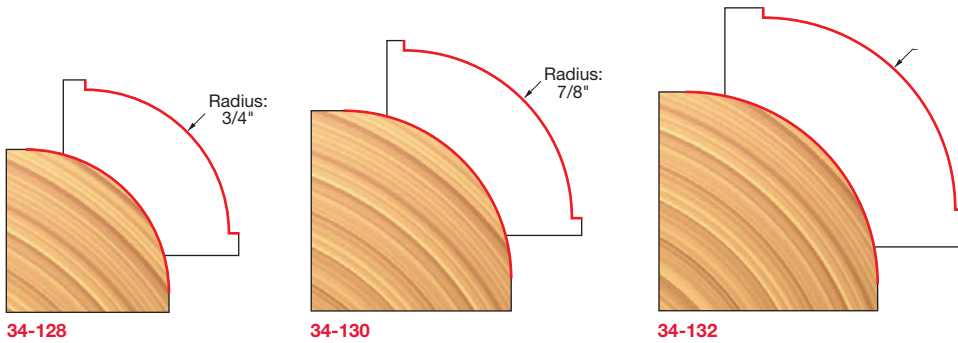
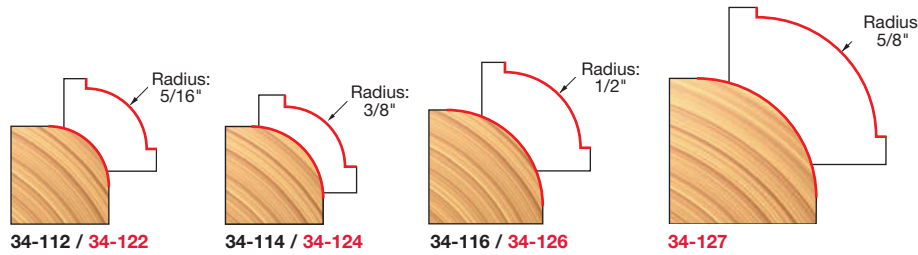
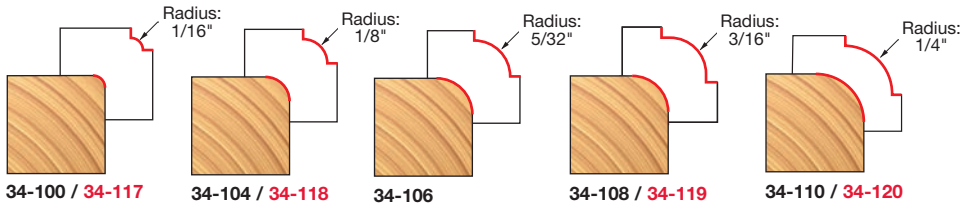
ITEM NUMBER	OVERALL DIA.	BEARING DIA.	CARBIDE HEIGHT	LARGE RADIUS	SHANK DIA.	OVERALL LENGTH
34-100	5/8"	1/2"	1/2"	1/16"	1/4"	2-3/16"
34-104	3/4"	1/2"	1/2"	1/8"	1/4"	2-3/16"
34-106	13/16"	1/2"	1/2"	5/32"	1/4"	2-3/16"
34-108	7/8"	1/2"	1/2"	3/16"	1/4"	2-3/16"
34-110	1-1/8"	5/8"	1/2"	1/4"	1/4"	2-3/16"
34-112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

# Rounding Over Bits



# EDGE TREATMENT & GROOVING BITS

CONTINUED



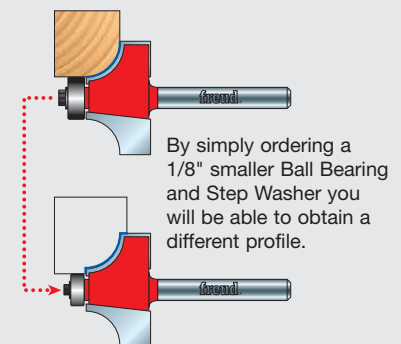
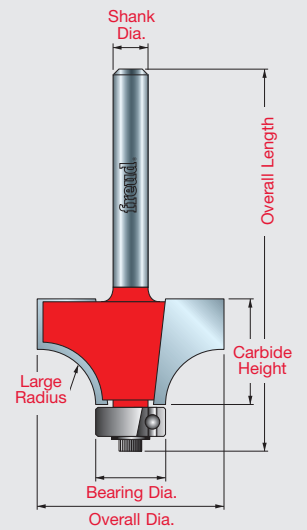
## USE IN



## APPLICATION

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

## MATERIALS



ROUTER BITS

\* Solid Carbide

Red Item Numbers Indicate 1/2" Shank

All Profile Drawings 1:1 Scale

# EDGE TREATMENT & GROOVING BITS



## Rounding Over Bits with Steel Pilots

### USE IN



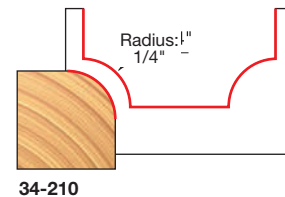
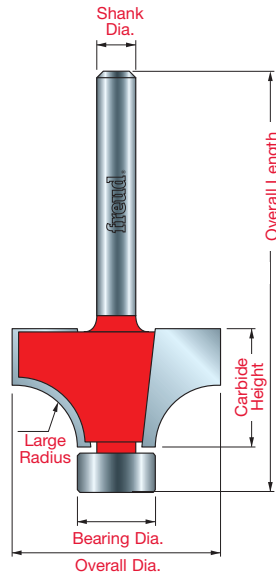
### APPLICATION

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

### MATERIALS



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



ROUTER BITS

# EDGE TREATMENT & GROOVING BITS



## Drop-Leaf Table Bit Set

### USE IN



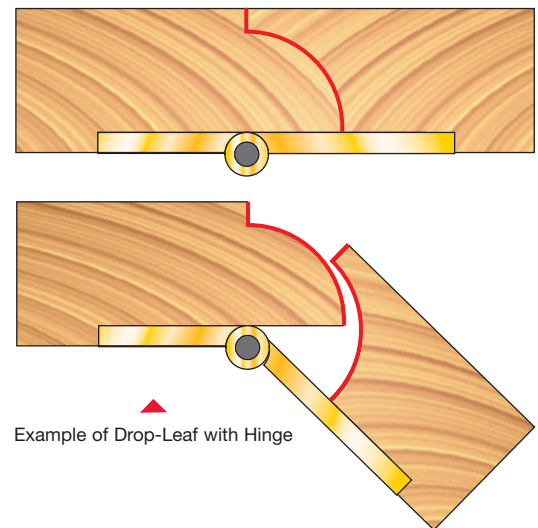
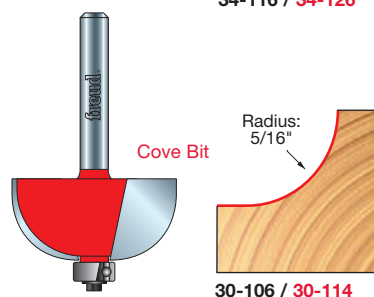
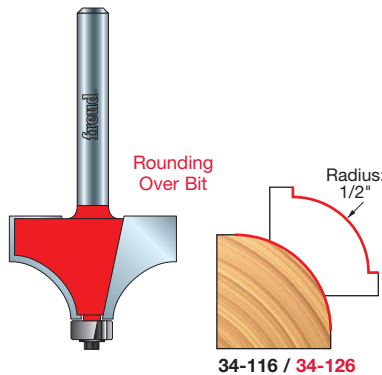
### APPLICATION

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

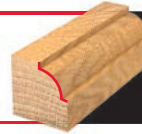
### MATERIALS



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



# Beading Bits



# EDGE TREATMENT & GROOVING BITS



USE IN



Table Router Hand Router

## APPLICATION

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

## MATERIALS



Hardwood

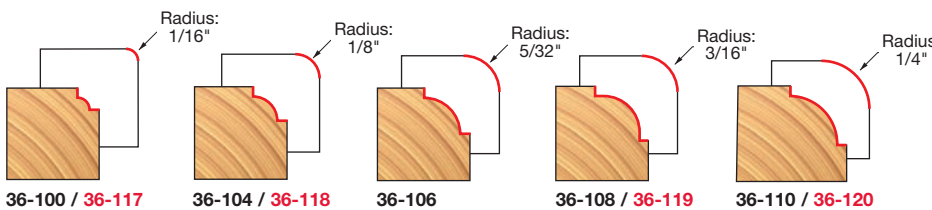
Softwood

MDF

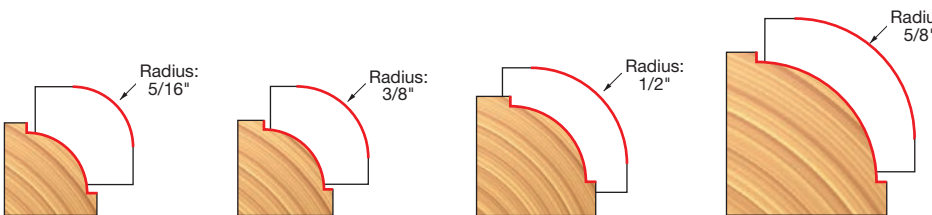
Plywood

ROUTER BITS

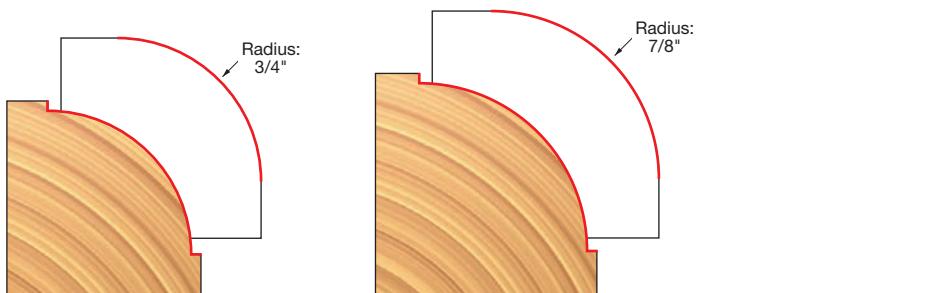
ITEM NUMBER	OVERALL DIA.	BEARING DIA.	CARBIDE HEIGHT	LARGE RADIUS	SHANK DIA.	OVERALL LENGTH
36-100	5/8"	3/8"	1/2"	1/16"	1/4"	2-3/16"
36-104	3/4"	3/8"	1/2"	1/8"	1/4"	2-3/16"
36-106	13/16"	3/8"	1/2"	5/32"	1/4"	2-3/16"
36-108	7/8"	3/8"	1/2"	3/16"	1/4"	2-3/16"
36-110	1-1/8"	1/2"	1/2"	1/4"	1/4"	2-3/16"
36-112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



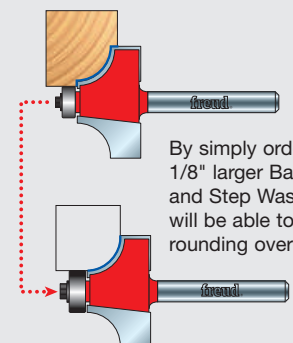
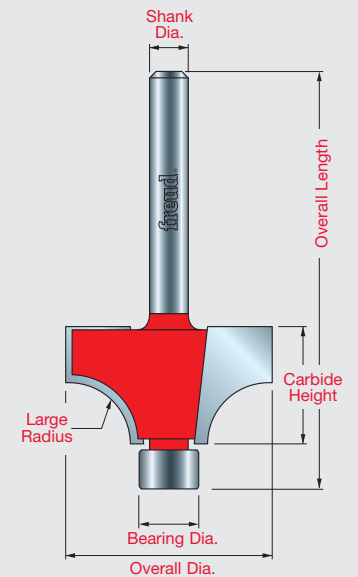
36-100 / 36-117    36-104 / 36-118    36-106    36-108 / 36-119    36-110 / 36-120



36-112 / 36-122    36-114 / 36-124    36-116 / 36-126    36-127



36-128    36-130



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

# EDGE TREATMENT & GROOVING BITS



## Beading Bits

### USE IN



Table Router Hand Router

### APPLICATION

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

### MATERIALS



Hardwood

Softwood

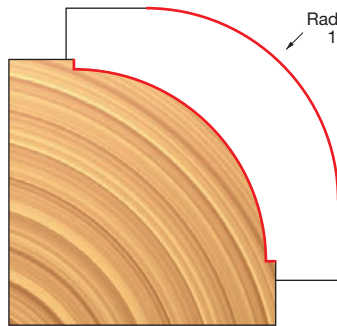


MDF



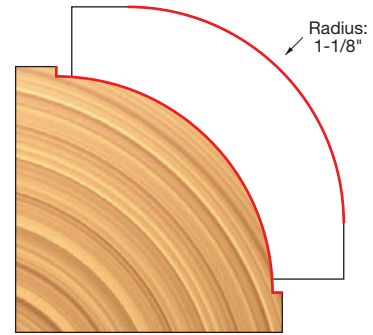
Plywood

CONTINUED



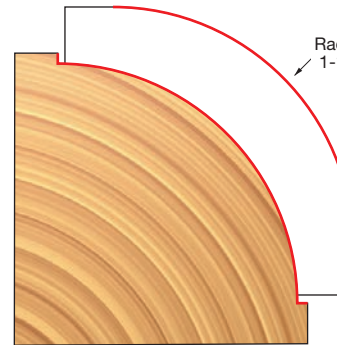
Radius: 1"

36-132



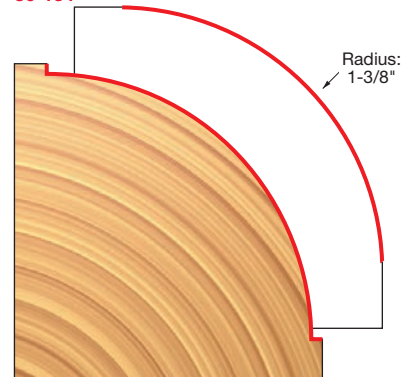
Radius: 1-1/8"

36-134



Radius: 1-1/4"

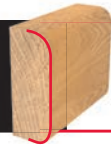
36-136



Radius: 1-3/8"

36-138

# EDGE TREATMENT & GROOVING BITS



## Variable Corner Round Bit

### USE IN



Table Router Hand Router

### APPLICATION

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

### MATERIALS



Hardwood

Softwood

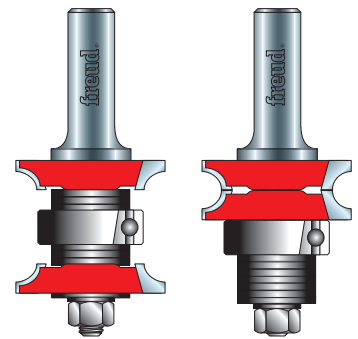
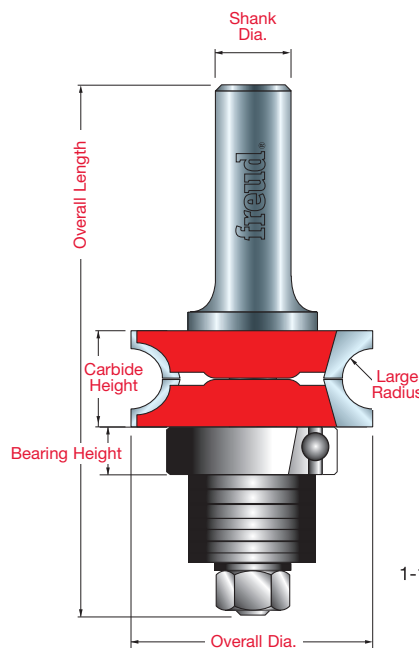


MDF

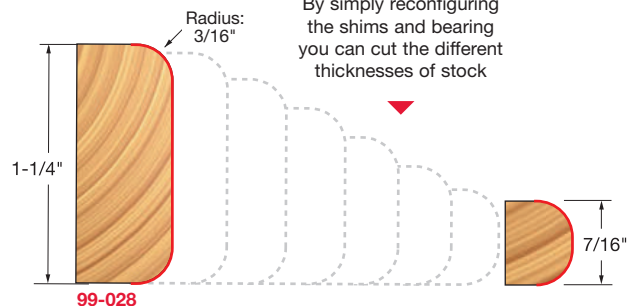


Plywood

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



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



99-028

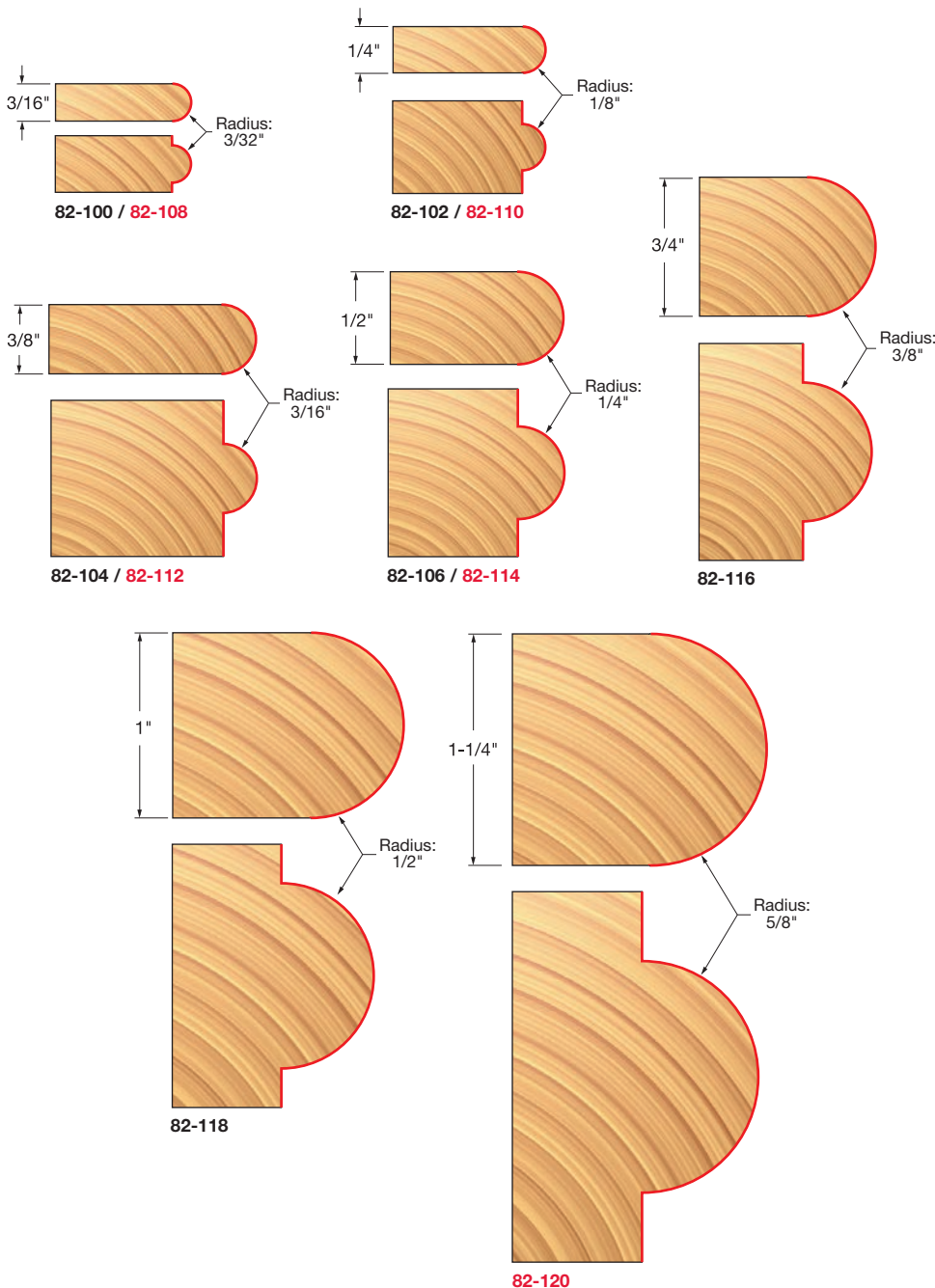


# Half Round Bits



# EDGE TREATMENT & GROOVING BITS

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



## USE IN



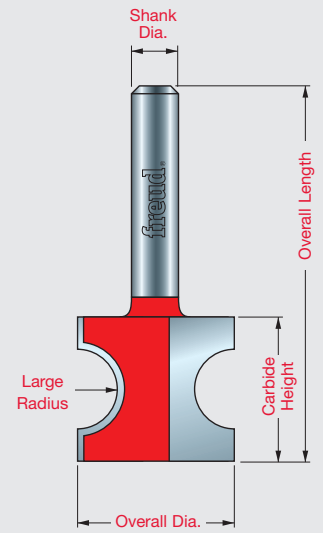
## APPLICATION

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

## MATERIALS



ROUTER BITS

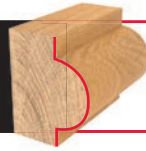


\* Solid Carbide

Red Item Numbers Indicate 1/2" Shank

All Profile Drawings 1:1 Scale

# EDGE TREATMENT & GROOVING BITS



## Half Round Bits with Bearings

### USE IN



Table Router Hand Router

### APPLICATION

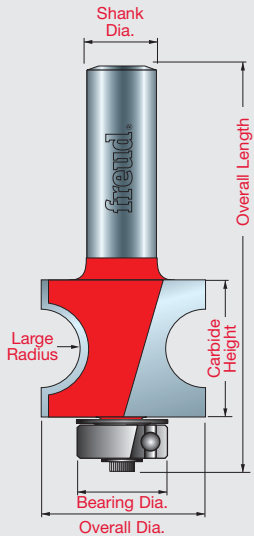
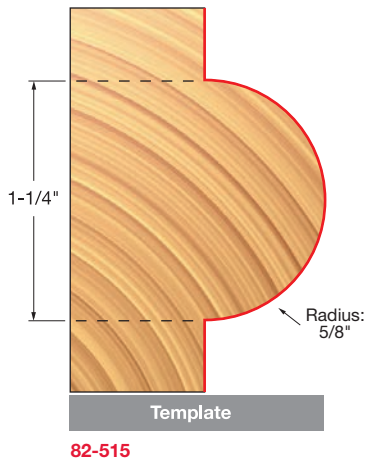
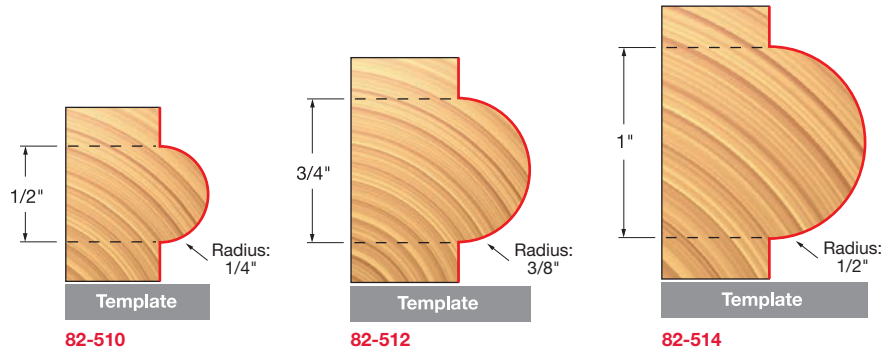
Produce a fully rounded edge on dimensional lumber or an attractive half round profile on furniture and moldings. Comes with ball bearing guide for template work.

### MATERIALS

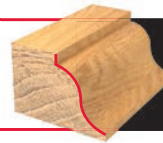


ROUTER BITS

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



# Decorative Edge Bits



# EDGE TREATMENT & GROOVING BITS



USE IN



Table Router Hand Router

## APPLICATION

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

## MATERIALS



Hardwood

Softwood

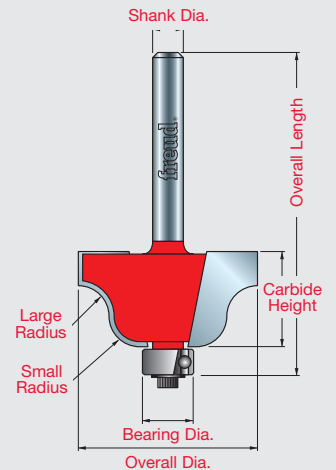
MDF

Plywood

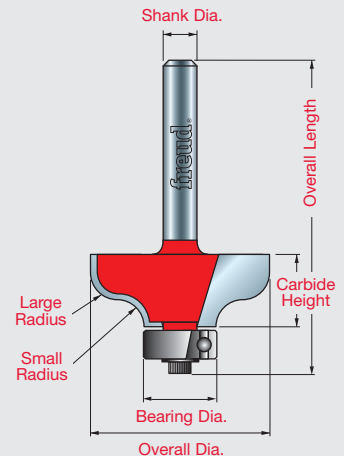
ROUTER BITS

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

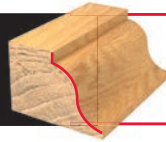
Roman Ogee Bit



Ogee Bit



# EDGE TREATMENT & GROOVING BITS



## Decorative Edge Bits

CONTINUED

### USE IN

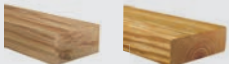


Table Router Hand Router

### APPLICATION

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

### MATERIALS



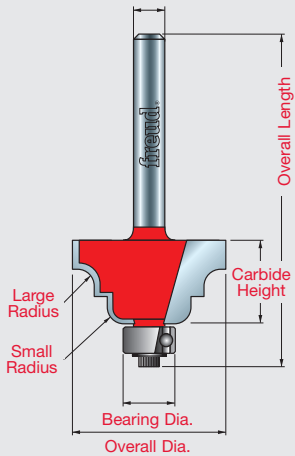
Hardwood Softwood



Plywood Laminate

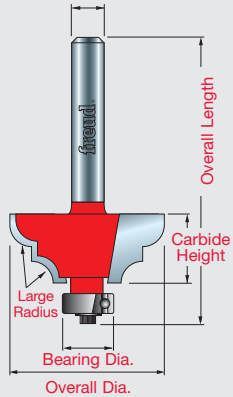
### Cove & Bead Bit

Shank Dia.

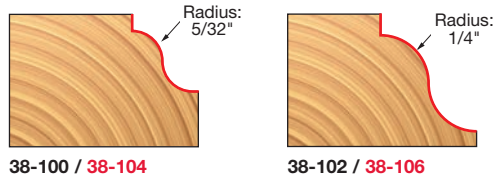


### Classical Cove & Round Bits

Shank Dia.



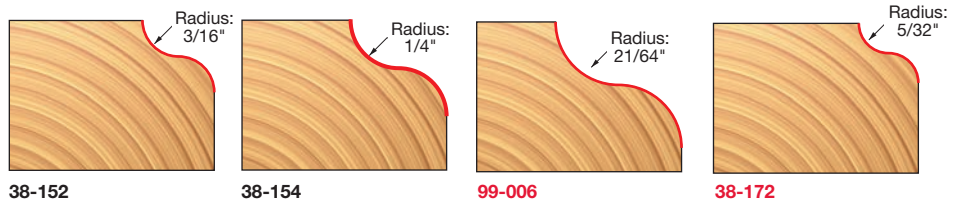
### Roman Ogree Bits



38-100 / 38-104

38-102 / 38-106

### Ogree Bits



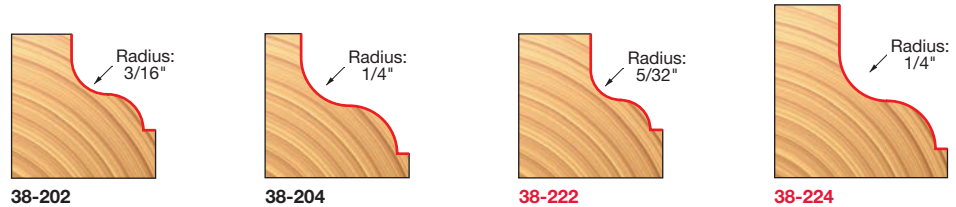
38-152

38-154

99-006

38-172

### Ogree Fillet Bits



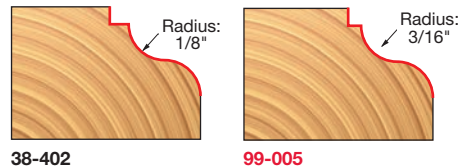
38-202

38-204

38-222

38-224

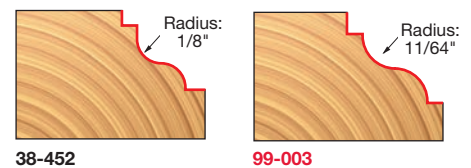
### Classical Roman Ogree Bits



38-402

99-005

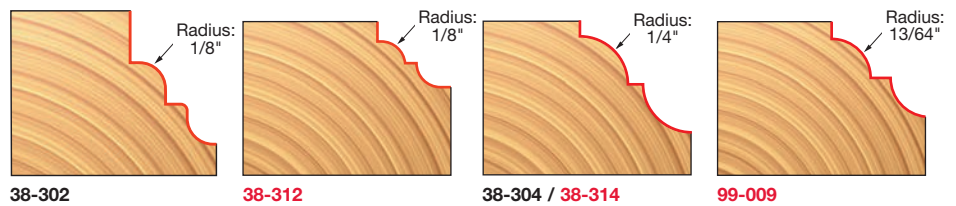
### Double Fillet Ogree Bits



38-452

99-003

### Cove & Bead Bits



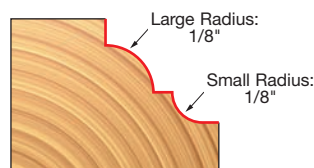
38-302

38-312

38-304 / 38-314

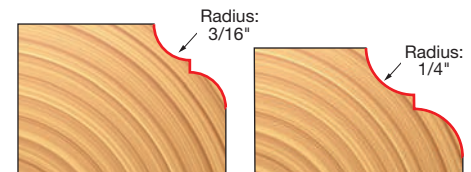
99-009

### Classical Cove & Bead Bits



38-352 / 38-362

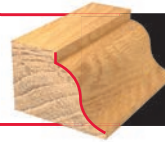
### Classical Bold Cove & Round Bits



38-502

38-504

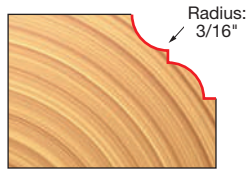
## Decorative Edge Bits



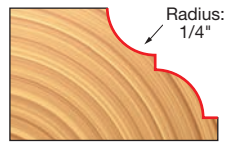
## EDGE TREATMENT & GROOVING BITS

CONTINUED

### Classical Bold Cove & Bead Bits

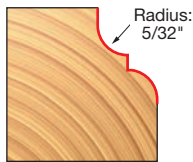


38-522

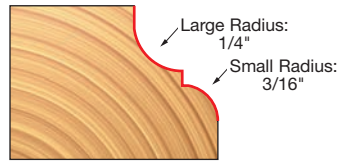


38-524

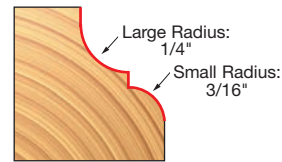
### Classical Cove & Round Bits



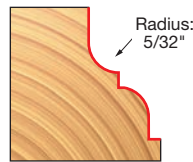
38-602 / 38-612



38-613



38-614



38-622 / 38-632

### USE IN



Table Router Hand Router

### APPLICATION

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

### MATERIALS



Hardwood

Softwood

MDF

Plywood

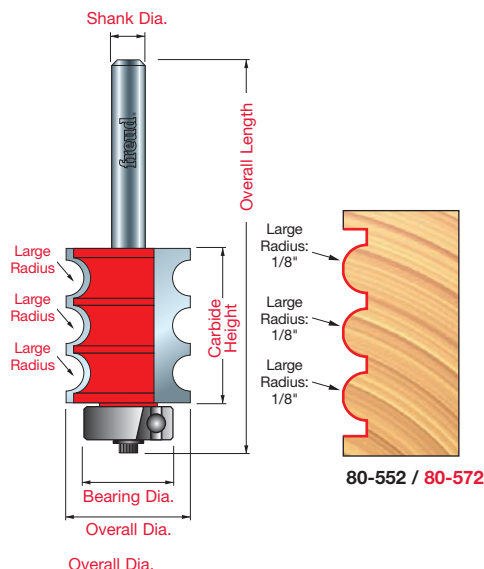
ROUTER BITS

## Triple Beading & Fluting Bits

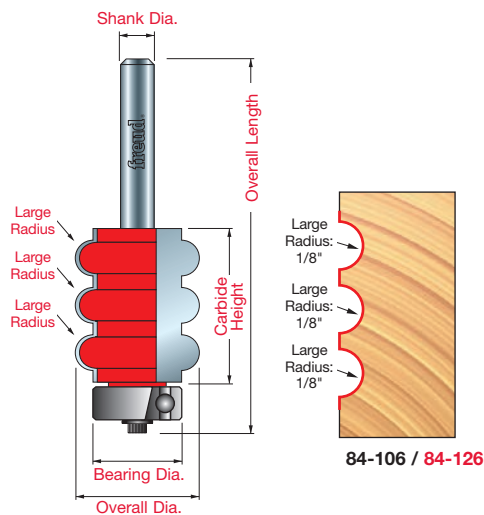


## EDGE TREATMENT & GROOVING BITS

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



80-552 / 80-572



84-106 / 84-126

### USE IN



Hand Router

CNC

### APPLICATION

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

### MATERIALS



Hardwood

Softwood

MDF

Plywood

\* Solid Carbide

Red Item Numbers Indicate 1/2" Shank

All Profile Drawings 1:1 Scale

freud® 147

# EDGE TREATMENT & GROOVING BITS



## Bold Classical Bits

### USE IN



Table Router Hand Router

### APPLICATION

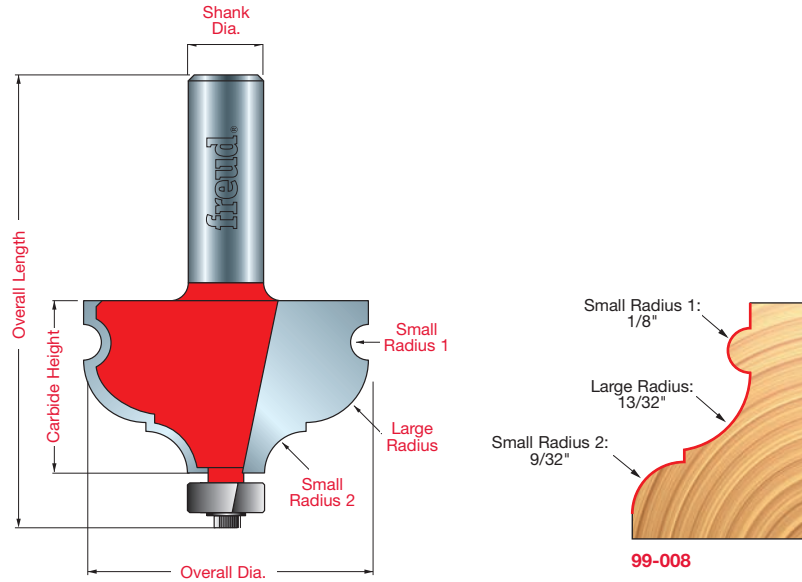
Forms beautiful wainscot and panel moldings. Create numerous molding profiles by using various bearings and multiple passes.

### MATERIALS

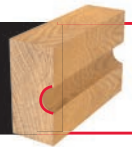


ROUTER BITS

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



# EDGE TREATMENT & GROOVING BITS



## Flute Bits

### USE IN



Table Router Hand Router

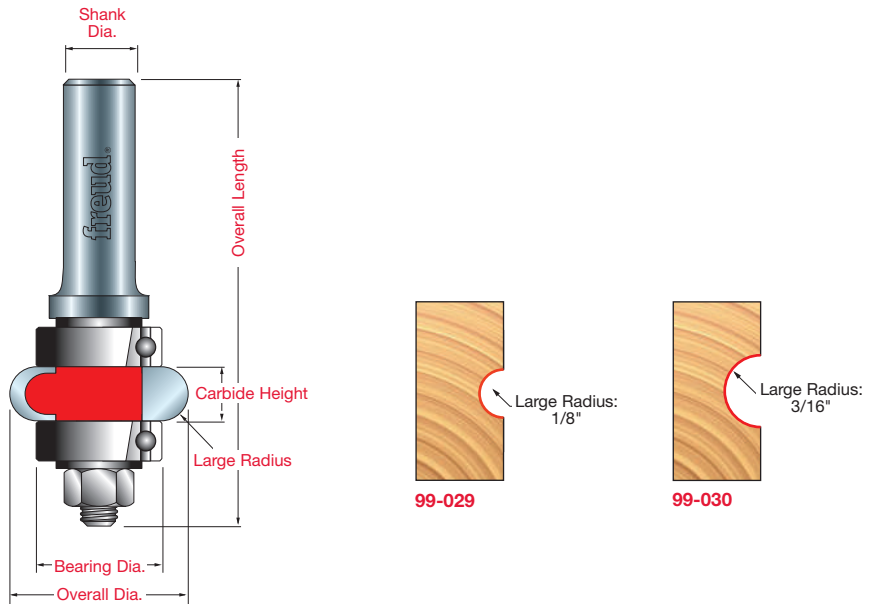
### APPLICATION

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

### MATERIALS



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

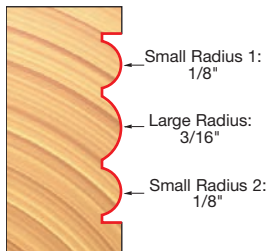


## Triple Beading Bits

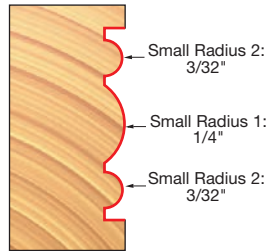


## EDGE TREATMENT & GROOVING BITS

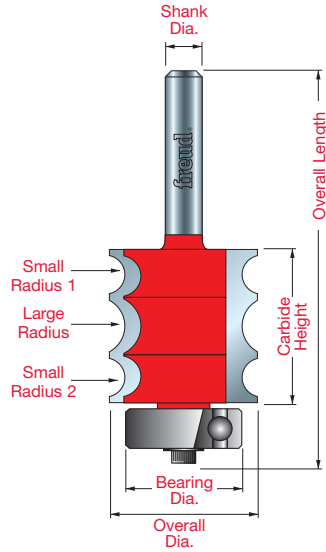
ITEM NUMBER	OVERALL DIA.	BEARING DIA.	CARBIDE HEIGHT	SMALL RADIUS 1	SMALL RADIUS 2	SHANK DIA.	OVERALL LENGTH
80-558	15/16"	3/4"	1"	3/16"	1/8"	1/4"	2-5/8"
80-578	15/16"	3/4"	1"	3/16"	1/8"	1/2"	2-3/4"
80-584	15/16"	3/4"	1"	1/4"	3/32"	1/2"	2-3/4"



80-558 / 80-578



80-584



### USE IN



Table Router Hand Router

### APPLICATION

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

### MATERIALS



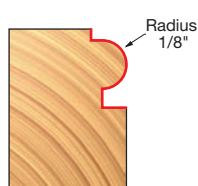
ROUTER BITS

## Traditional Beading Bits

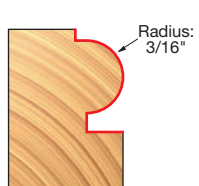


## EDGE TREATMENT & GROOVING BITS

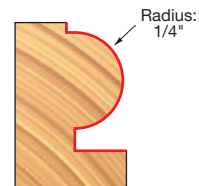
ITEM NUMBER	OVERALL DIA.	BEARING DIA.	CARBIDE HEIGHT	LARGE RADIUS	SHANK DIA.	OVERALL LENGTH
80-102	1"	1/2"	9/16"	1/8"	1/4"	2-3/16"
80-104	1-1/4"	1/2"	11/16"	3/16"	1/4"	2-5/16"
80-106	1-1/8"	1/2"	7/8"	1/4"	1/4"	2-3/8"
80-108	1-3/8"	1/2"	3/4"	9/32"	1/4"	2-3/8"
80-122	1"	1/2"	9/16"	1/8"	1/2"	2-7/16"
80-124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



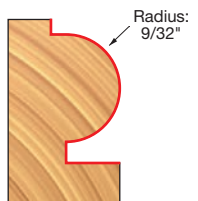
80-102 / 80-122



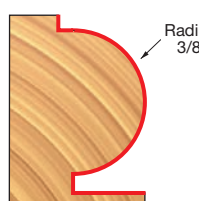
80-104 / 80-124



80-106 / 80-126



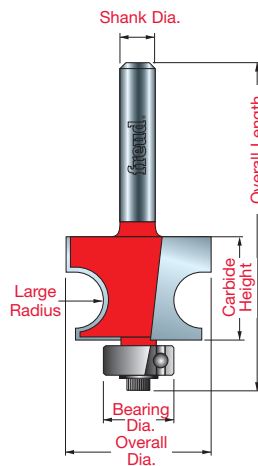
80-108 / 80-128



80-130



Example of profile



### USE IN

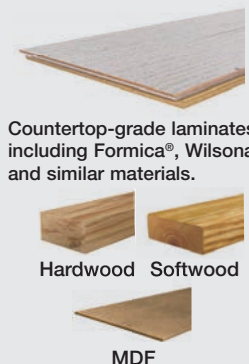


Table Router Hand Router

### APPLICATION

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

### MATERIALS

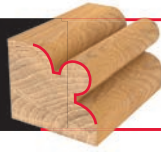


\* Solid Carbide

Red Item Numbers Indicate 1/2" Shank

All Profile Drawings 1:1 Scale

# EDGE TREATMENT & GROOVING BITS



## Corner Beading Bits

### USE IN



Table Router Hand Router

### APPLICATION

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

### MATERIALS



Hardwood

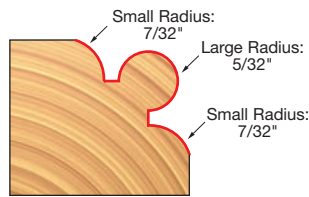
Softwood

Plywood

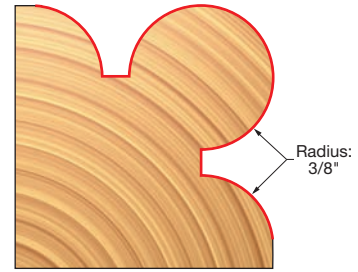
Laminate

ROUTER BITS

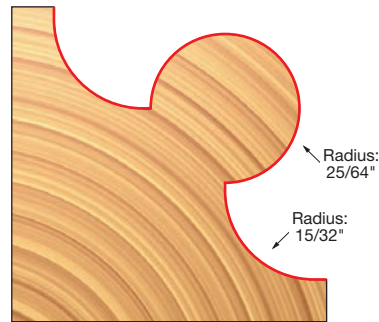
ITEM NUMBER	OVERALL DIA.	BEARING DIA.	CARBIDE HEIGHT	LARGE RADIUS	SMALL RADIUS	MINOR HEIGHT	SHANK DIA.	OVERALL LENGTH
99-020	15/16"	1/2"	5/8"	7/32"	5/32"	5/64"	1/2"	2-1/2"
99-021	1-1/4"	1/2"	1-15/32"	3/8"	-	9/64"	1/2"	3-3/8"
99-022	1-37/64"	1/2"	1-1/2"	15/32"	25/64"	15/64"	1/2"	3-3/8"
99-023	1-5/8"	7/8"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



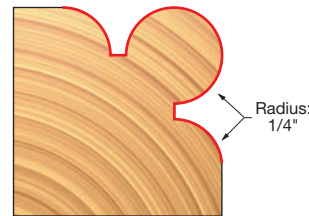
99-020



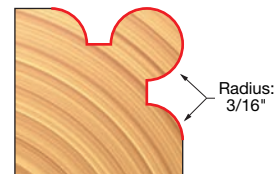
99-021 / 99-023



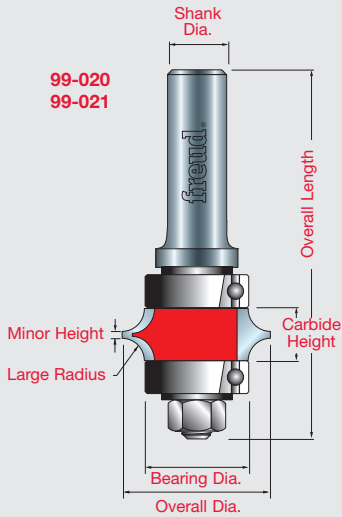
99-022



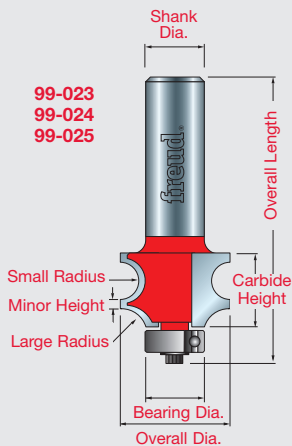
99-024



99-025



99-020  
99-021



99-023  
99-024  
99-025



## Table Top Edge Classical Bit



## EDGE TREATMENT & GROOVING BITS

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



USE IN



Table Router Hand Router

### APPLICATION

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

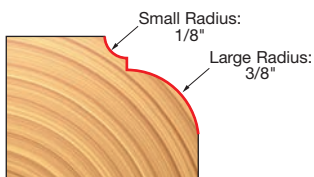
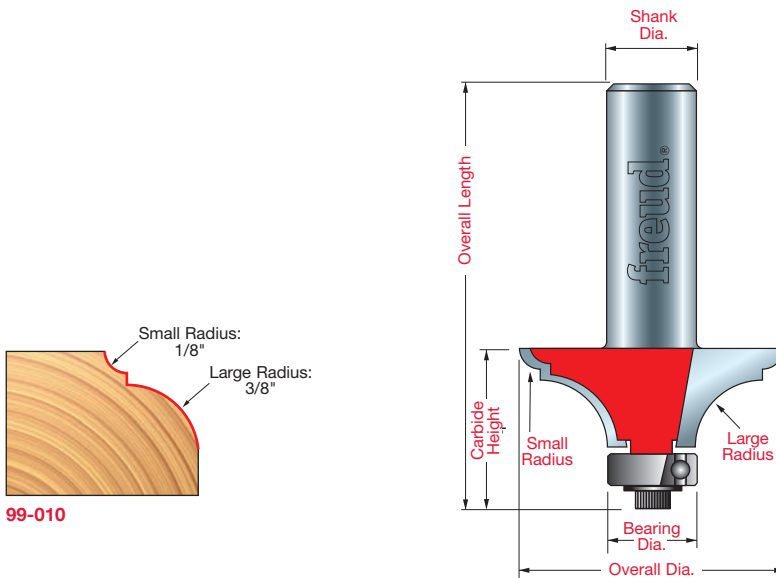
### MATERIALS



Hardwood Softwood Plywood



MDF Laminate



99-010

ROUTER BITS

## Table Top Edge Classical Bold Bit



## EDGE TREATMENT & GROOVING BITS

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



USE IN



Table Router Hand Router

### APPLICATION

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

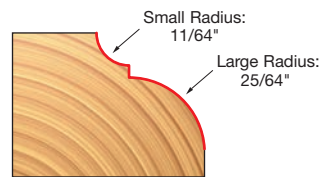
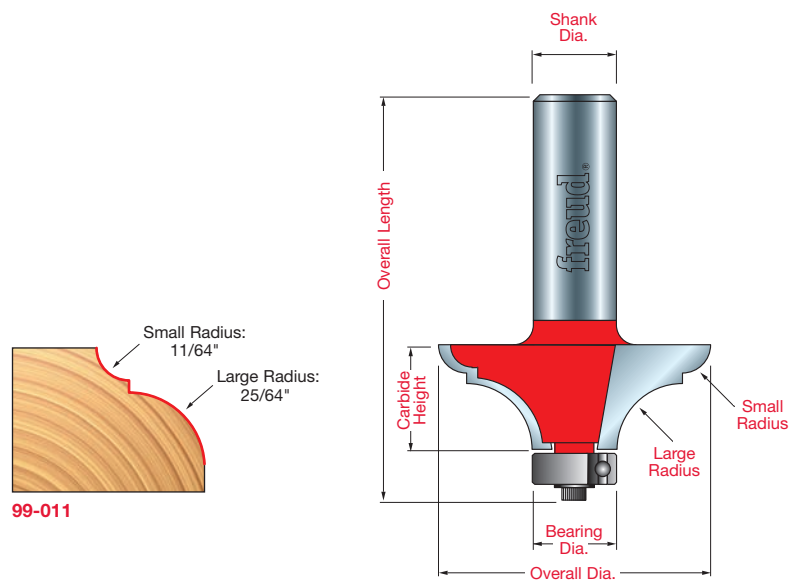
### MATERIALS



Hardwood Softwood Plywood



MDF Laminate



99-011

# EDGE TREATMENT & GROOVING BITS



## Chamfer Bits

### USE IN



Table Router Hand Router

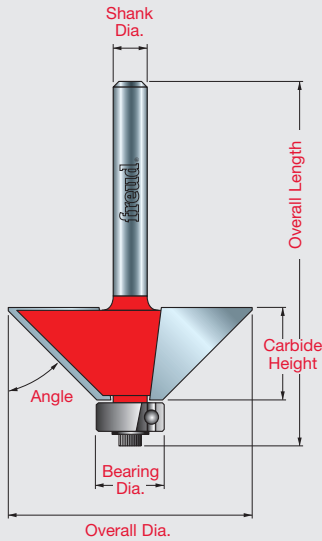
### APPLICATION

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

### MATERIALS



Hardwood Softwood MDF  
Plywood Laminate



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



40-094



40-098



40-100



40-101



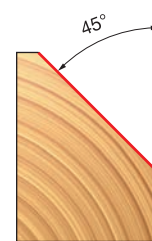
40-102



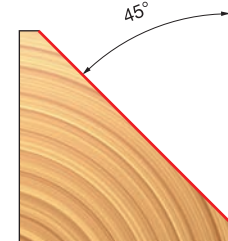
40-104



40-202 / 40-206



40-106 / 40-114



40-118

# Multi Profile Bits

# EDGE TREATMENT & GROOVING BITS

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

## USE IN



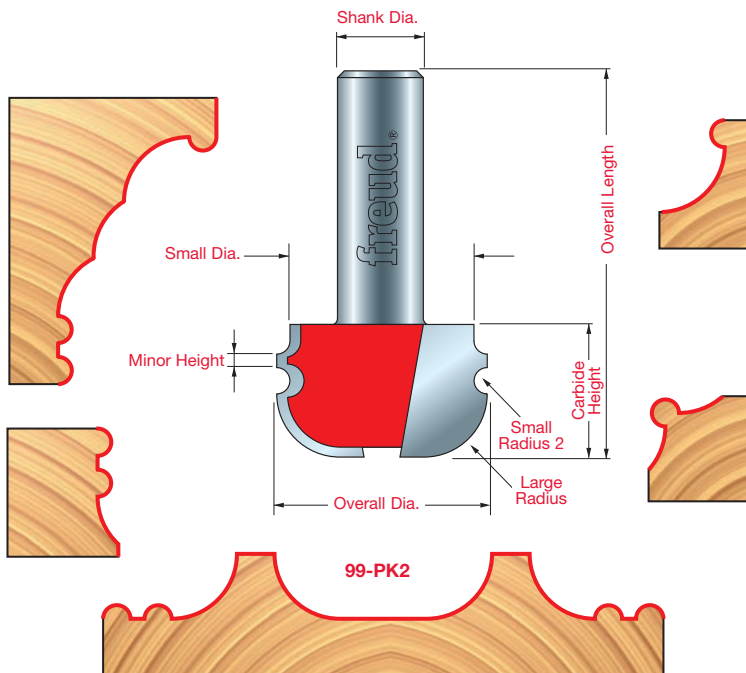
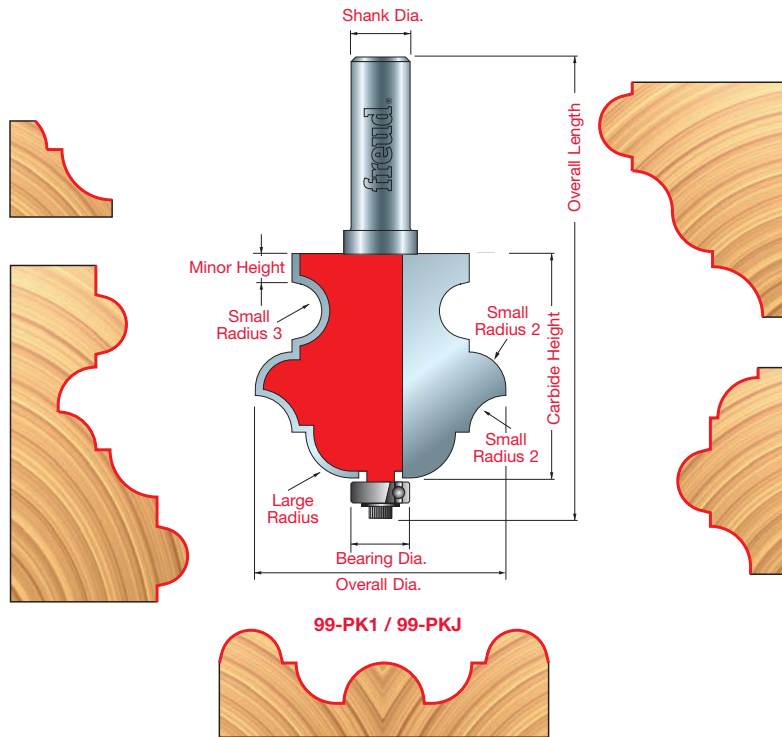
## APPLICATION

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

## MATERIALS



ROUTER BITS



Examples of multi-profiles



\* Solid Carbide

Red Item Numbers Indicate 1/2" Shank

All Profile Drawings 1:1 Scale

# EDGE TREATMENT & GROOVING BITS



## Multi Profile Bits

CONTINUED

### USE IN



Table Router Hand Router

### APPLICATION

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

### MATERIALS



Hardwood Softwood

Plywood Laminate

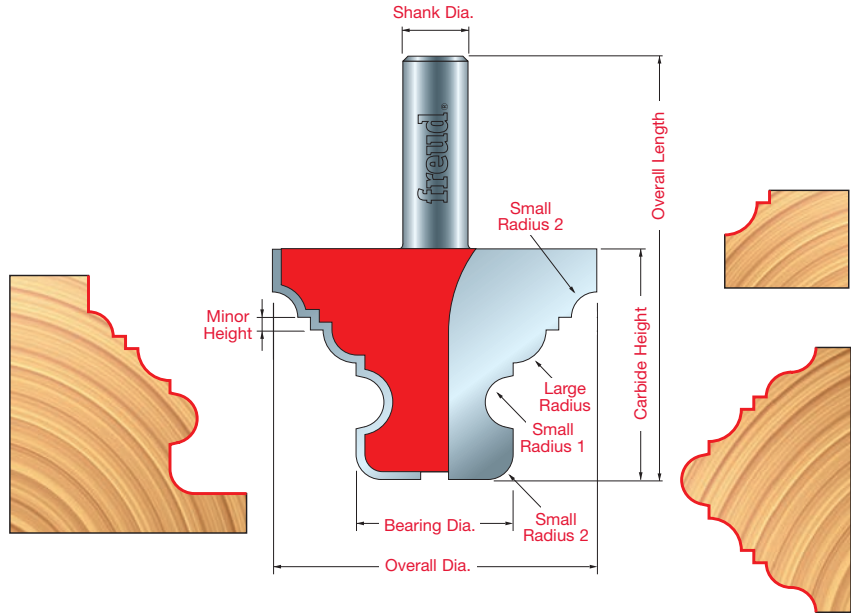


Examples of multi-profiles



ROUTER BITS

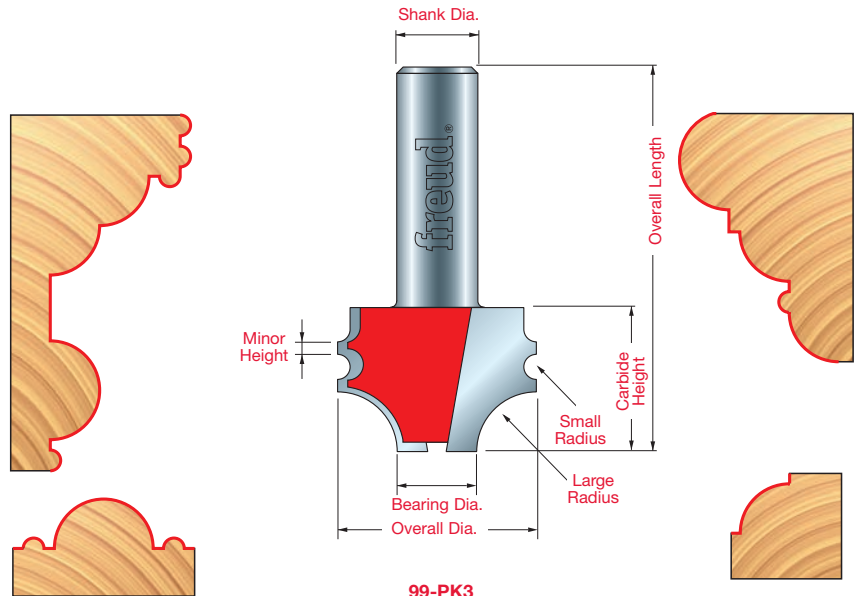
Shank Dia.



99-PK7



Shank Dia.



99-PK3



# Brick Molding Bit

## ARCHITECTURAL MILLWORK BITS

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



Architectural Molding Series

### USE IN



Table Router



CNC

### APPLICATION

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

### MATERIALS



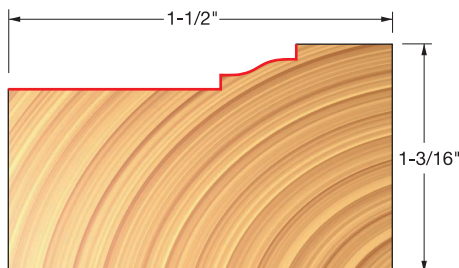
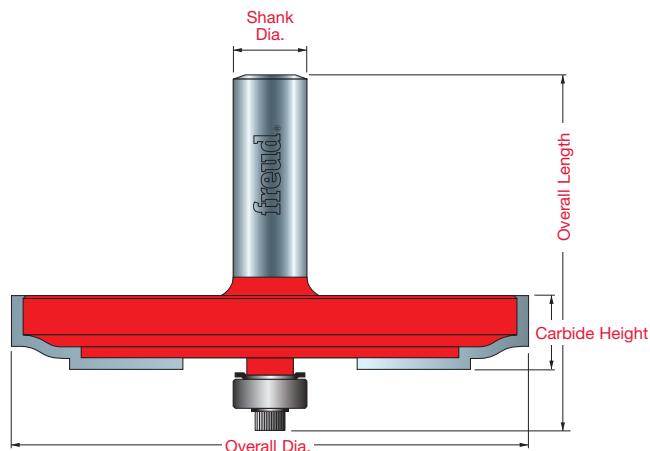
Hardwood



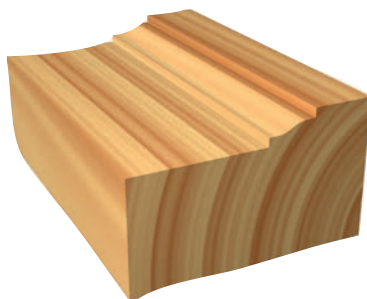
Softwood



MDF



99-460  
Standard Brick Molding  
Profile # 180



ROUTER BITS

# ARCHITECTURAL MILLWORK BIT



## Casing Bits



### Architectural Molding Series

#### USE IN



Table Router    CNC

#### APPLICATION

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

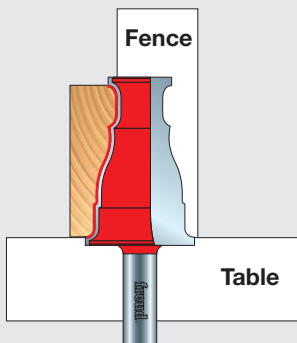
#### MATERIALS



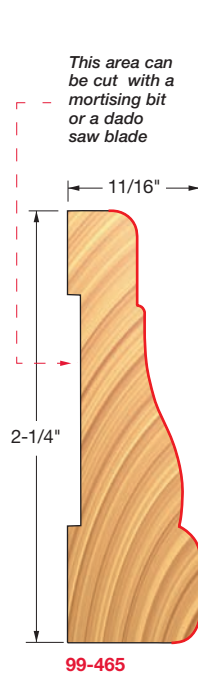
Hardwood    Softwood

MDF

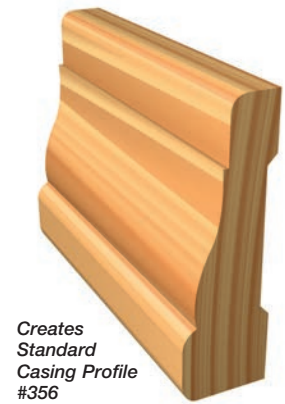
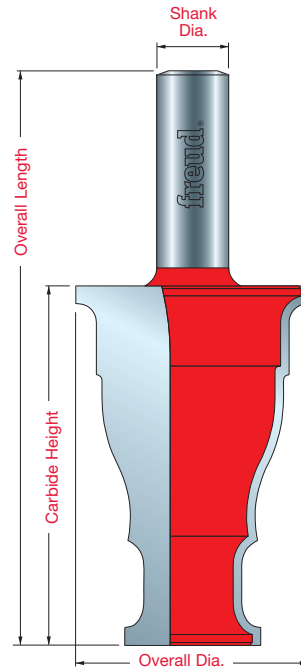
#### ROUTING TECHNIQUE FOR ALL CASING PROFILES



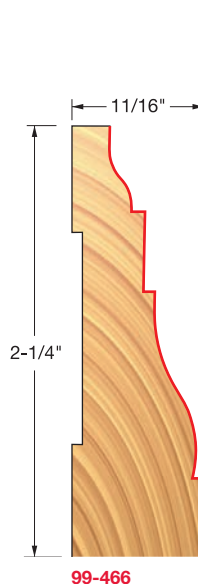
ITEM NUMBER	PROFILE DESIGN	OVERALL DIA.	CARBIDE HEIGHT	SHANK DIA.	OVERALL LENGTH
99-465	Casing #356	1-5/8"	2-1/2"	1/2"	4"
99-466	Casing #366	1-1/2"	1-13/16"	1/2"	3-9/32"
99-467	Casing #376	1-5/8"	1-15/16"	1/2"	3-7/16"
99-468	Casing #445	1-1/2"	2-7/8"	1/2"	4-3/8"



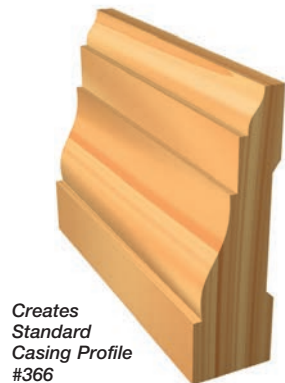
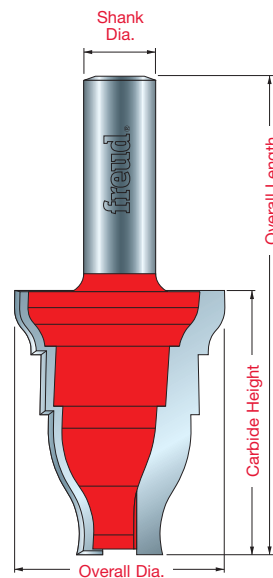
99-465



Creates Standard Casing Profile #356



99-466

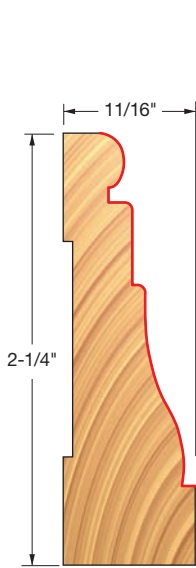


Creates Standard Casing Profile #366

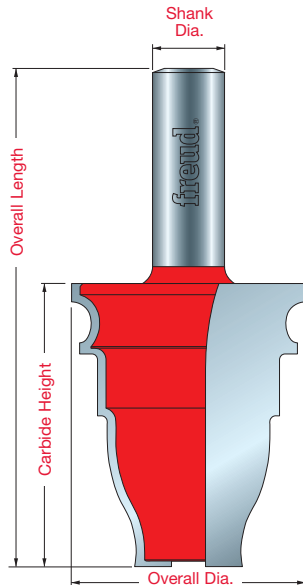
# Casing Bits

# ARCHITECTURAL MILLWORK BITS

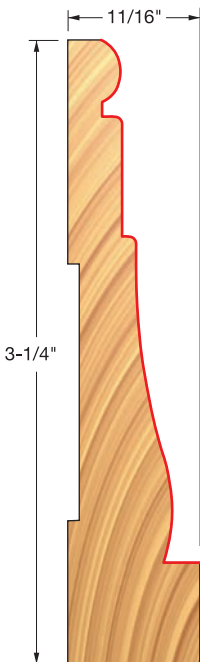
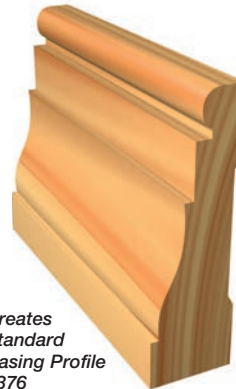
CONTINUED



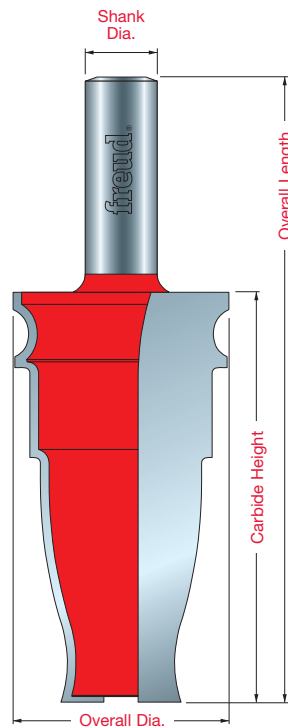
99-467



Creates Standard Casing Profile #376



99-468



Creates Standard Casing Profile #445



## Architectural Molding Series

### USE IN



Table Router



CNC

### APPLICATION

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

### MATERIALS



Hardwood

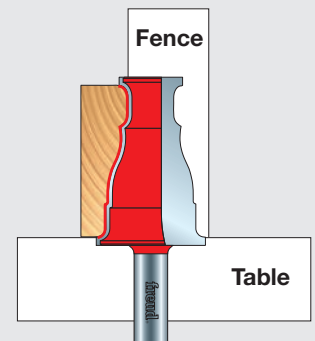


Softwood



MDF

### ROUTING TECHNIQUE FOR ALL CASING PROFILES



ROUTER BITS

\* Solid Carbide

Red Item Numbers Indicate 1/2" Shank

All Profile Drawings 1:1 Scale

# ARCHITECTURAL MILLWORK BITS



## Chair Rail Bits



### Architectural Molding Series

#### USE IN



Table Router    CNC

#### APPLICATION

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

#### MATERIALS



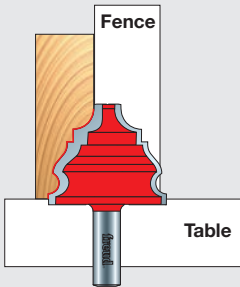
Hardwood    Softwood

MDF

#### ROUTING TECHNIQUE

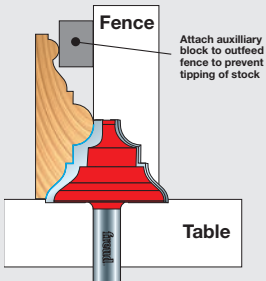
##### First Cut

(Using Bit 99-478)



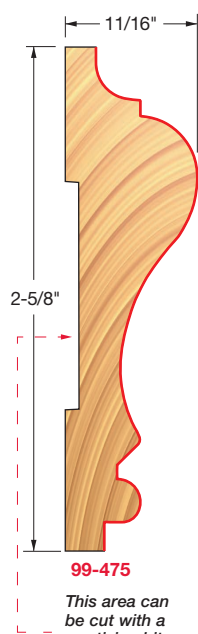
##### Second Cut

(Using Bit 99-477)



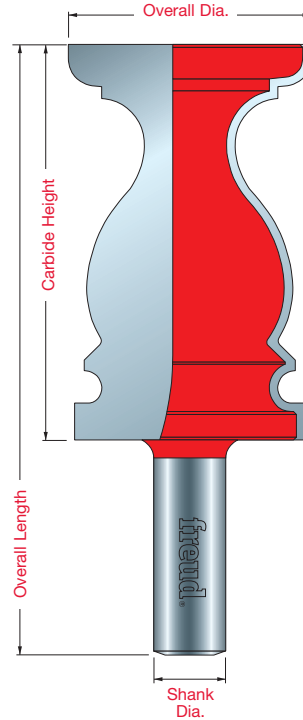
Attach auxiliary block to outfeed fence to prevent tipping of stock

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

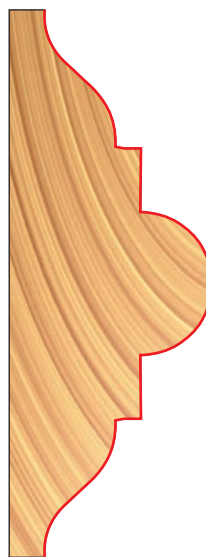


99-475

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



not to scale



99-477



not to scale



# Chair Rail Bits

CONTINUED

# ARCHITECTURAL MILLWORK BITS



## Architectural Molding Series

### USE IN



Table Router



CNC

### APPLICATION

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

### MATERIALS



Hardwood Softwood

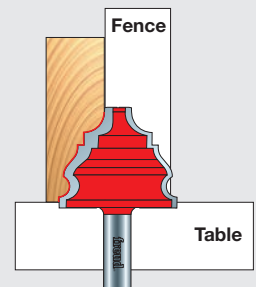


MDF

### ROUTING TECHNIQUE

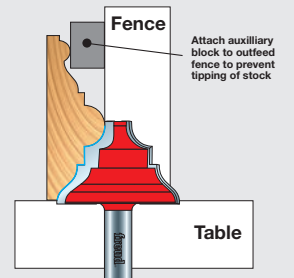
#### First Cut

(Using Bit 99-478)



#### Second Cut

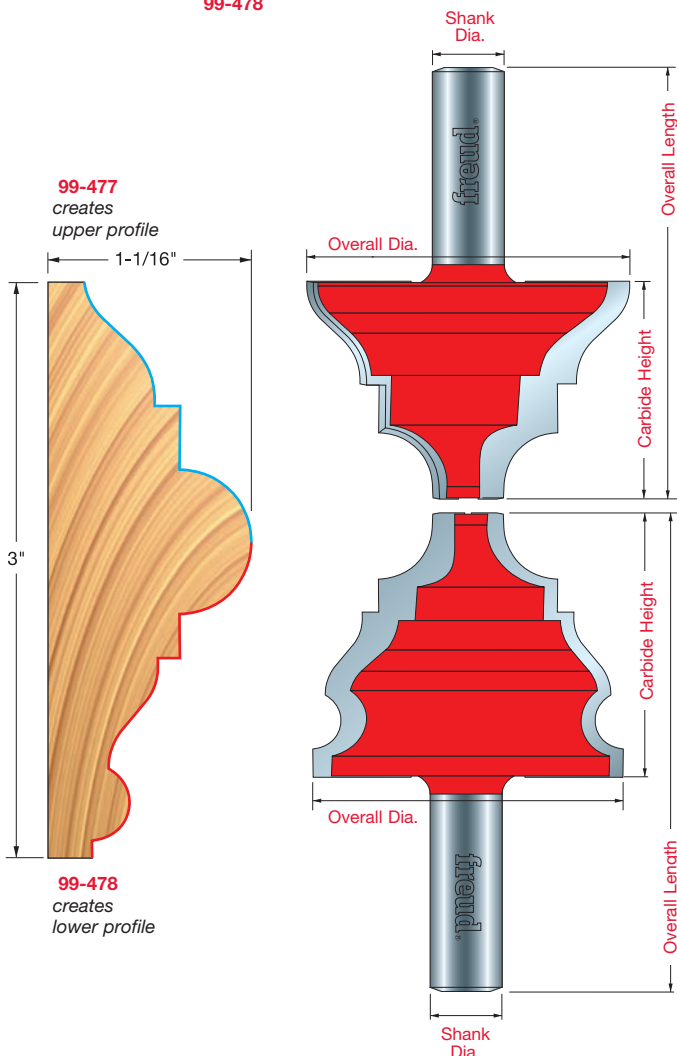
(Using Bit 99-477)



99-478



not to scale



99-477 creates upper profile

99-478 creates lower profile

\* Solid Carbide

Red Item Numbers Indicate 1/2" Shank

All Profile Drawings 1:1 Scale

ROUTER BITS

# ARCHITECTURAL MILLWORK BITS

## Base and Cap Bits



### Architectural Molding Series

#### USE IN



Table Router    CNC

#### APPLICATION

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

#### MATERIALS

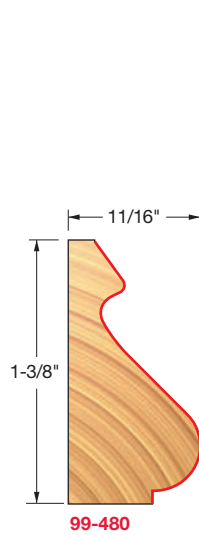


Hardwood    Softwood

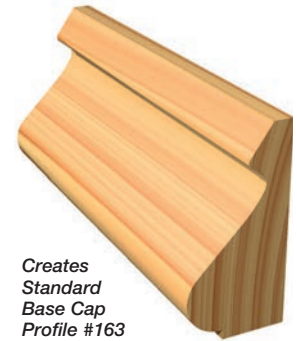
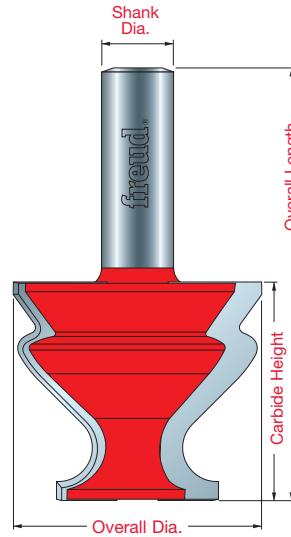
MDF

ROUTER BITS

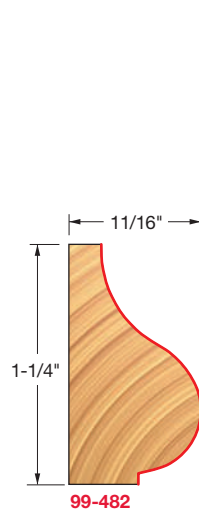
ITEM NUMBER	PROFILE DESIGN	OVERALL DIA.	CARBIDE HEIGHT	SHANK DIA.	OVERALL LENGTH
99-480	Base Cap #163	1-3/4"	1-1/2"	1/2"	3"
99-482	Base Cap #166	1-11/16"	1-1/2"	1/2"	2-7/8"
99-484	Base Molding*	1-11/16"	15/32"	1/2"	2-3/8"



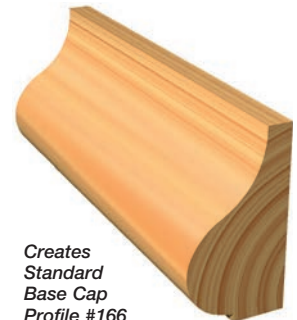
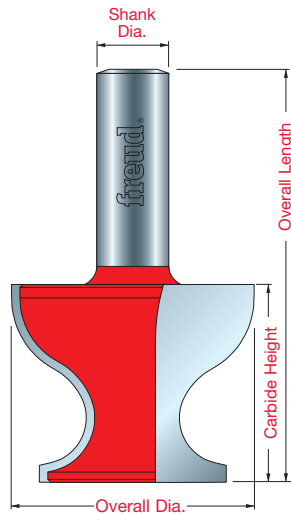
99-480



Creates Standard Base Cap Profile #163



99-482



Creates Standard Base Cap Profile #166

# Base and Cap Bits

CONTINUED

# ARCHITECTURAL MILLWORK BITS



## Architectural Molding Series

### USE IN



Table Router



CNC

### APPLICATION

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

### MATERIALS



Hardwood



Softwood

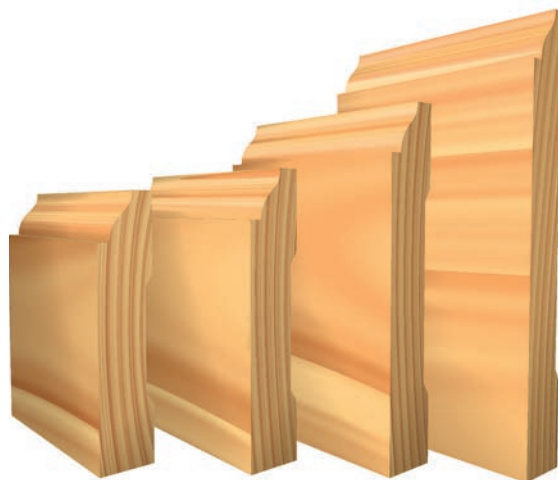
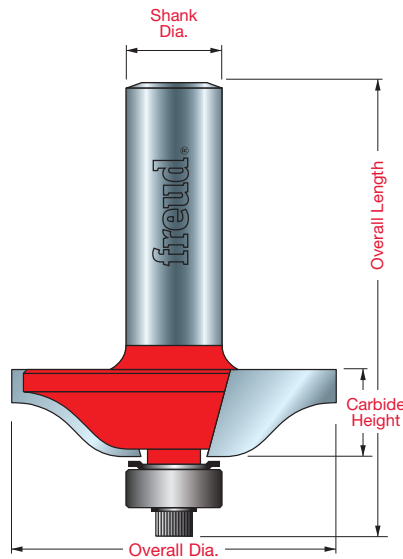


MDF



99-484

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



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

ROUTER BITS

# ARCHITECTURAL MILLWORK BITS

## Beadboard Bit System



### Architectural Molding Series

#### USE IN



#### APPLICATION

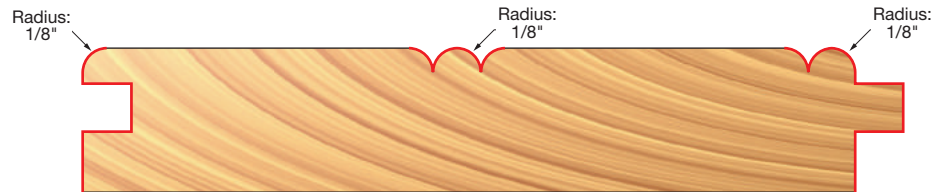
Create beautiful wainscoting, paneling, back panels for bookcases, and much more. Mills traditional beadboard in a variety of thicknesses and widths. Includes two slot cutters to rout either 1/4" or 1/16" tongue & groove joints.

#### MATERIALS

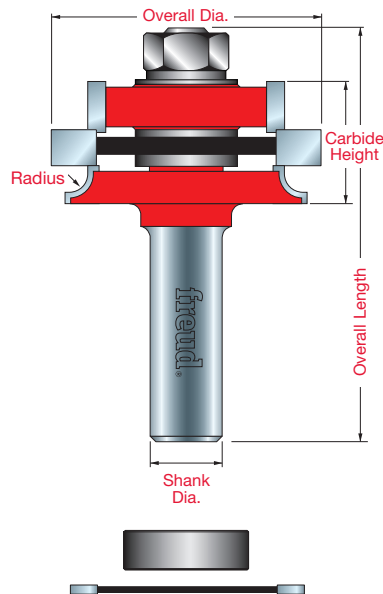


ROUTER BITS

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



20-301 & 99-472



99-472



# Beadboard Bit System

# ARCHITECTURAL MILLWORK BITS

CONTINUED



## Architectural Molding Series

### USE IN



Table Router



CNC

### APPLICATION

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

### MATERIALS



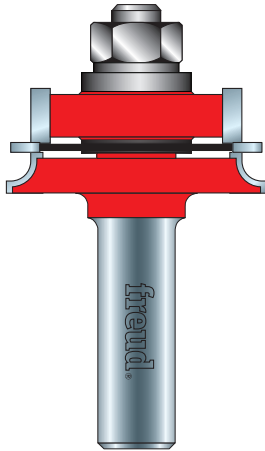
Hardwood



Softwood

ROUTER BITS

Groove Cut Configuration



99-472

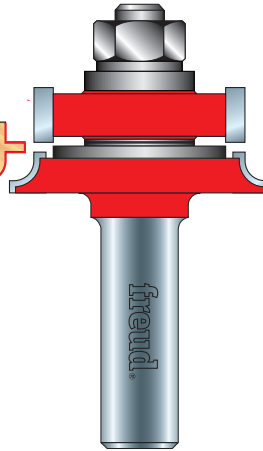


3/8" Stock



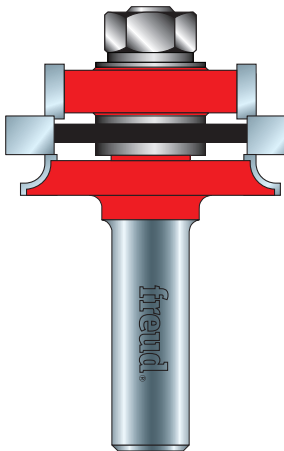
20-301

Tongue Cut Configuration



99-472

Groove Cut Configuration



99-472

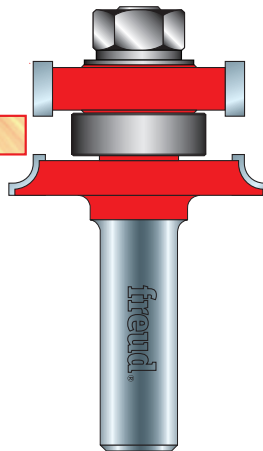


3/4" Stock



20-301

Tongue Cut Configuration



99-472

# ARCHITECTURAL MILLWORK BITS

## Table Edge & Handrail Bits

### USE IN



Table Router    CNC



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

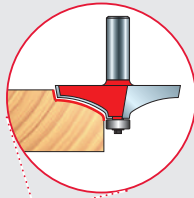
### APPLICATION

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

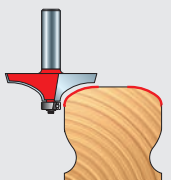
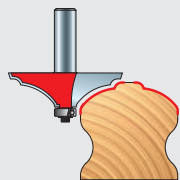
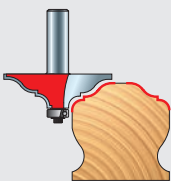
### MATERIALS



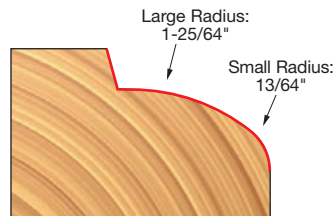
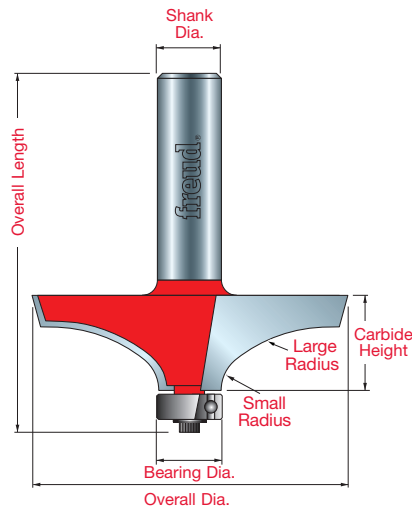
ROUTER BITS



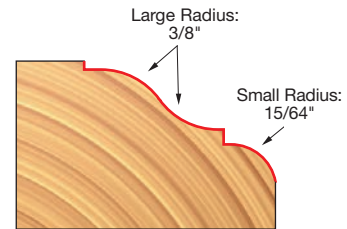
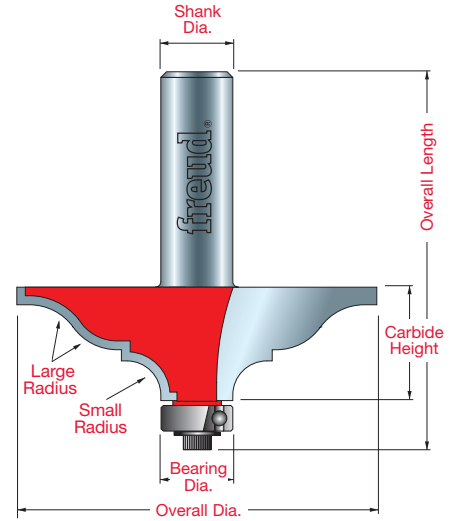
Example of table edge profile



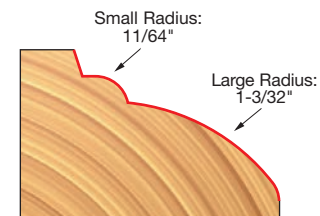
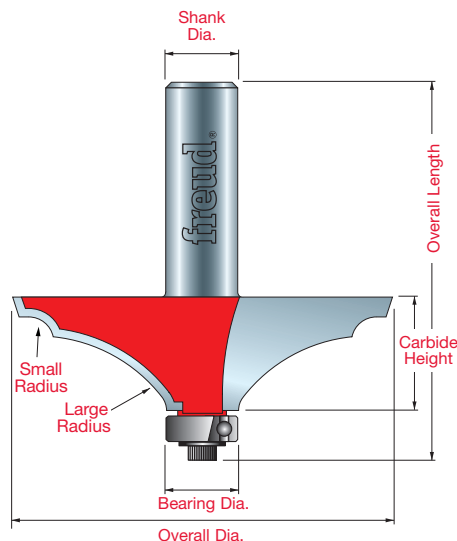
Examples of various handrail profiles



99-027



99-450



99-452

# Handrail Bits

# ARCHITECTURAL MILLWORK BITS

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

## USE IN



Table Router



CNC

## APPLICATION

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

## MATERIALS



Hardwood



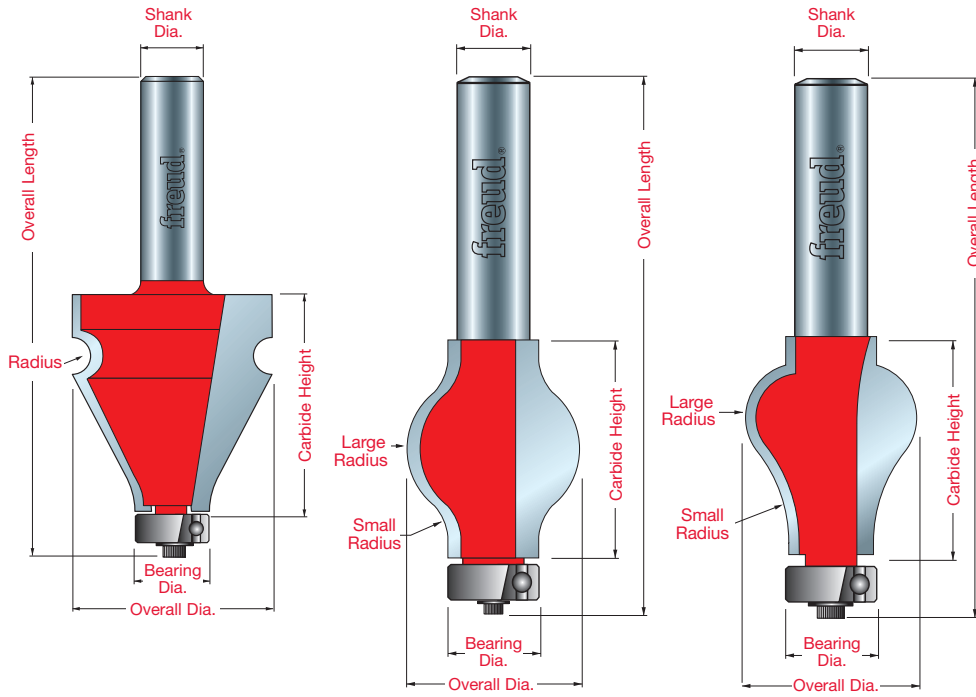
Softwood



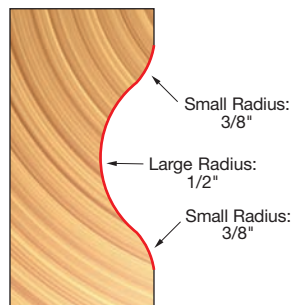
MDF



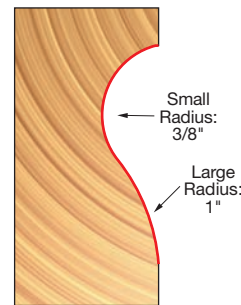
Plywood



99-446

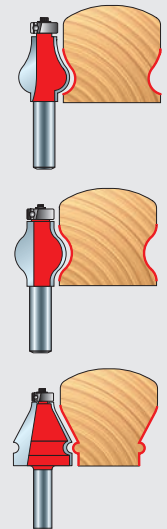


99-444



99-442

Examples of various handrail profiles



# ARCHITECTURAL MILLWORK BITS



## Face Molding Bits

### USE IN



### APPLICATION

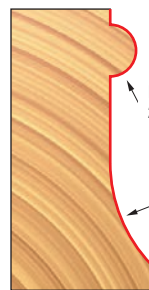
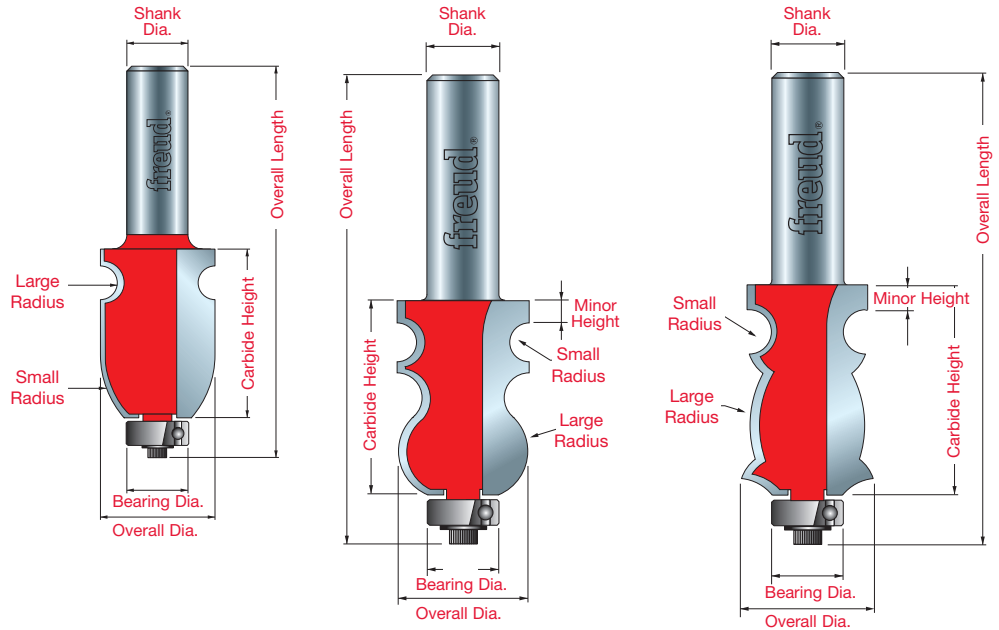
Door casings, trim, baseboards, and pilasters. Add architectural detail to your furniture, cabinets and millwork.

### MATERIALS



ROUTER BITS

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



99-012



99-013



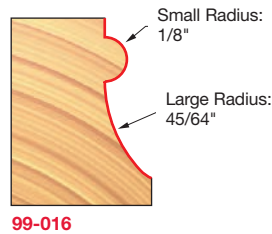
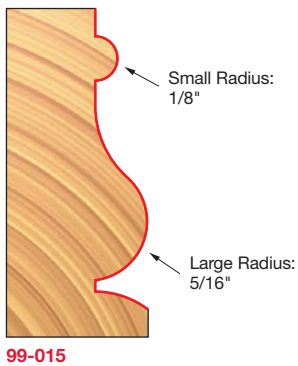
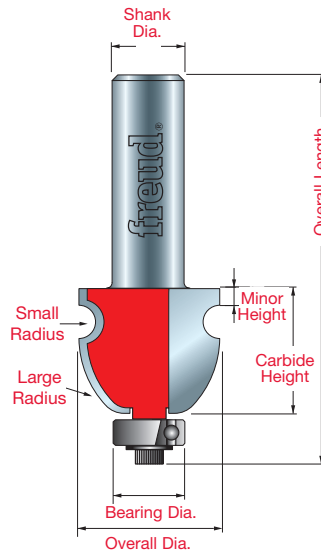
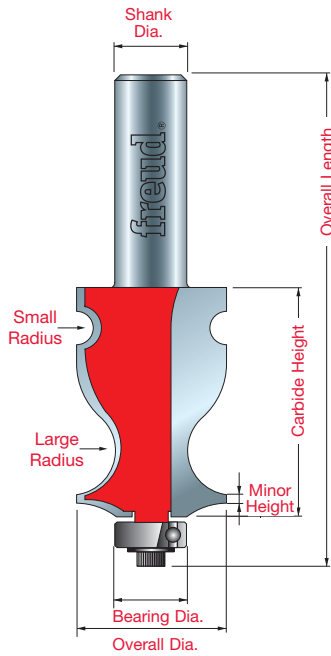
99-014



# Face Molding Bits

# ARCHITECTURAL MILLWORK BITS

CONTINUED



## USE IN



Table Router



CNC

## APPLICATION

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

## MATERIALS



Hardwood



Softwood



MDF



Plywood

ROUTER BITS

# ARCHITECTURAL MILLWORK BITS

## Reversible Wainscoting Bit

### USE IN



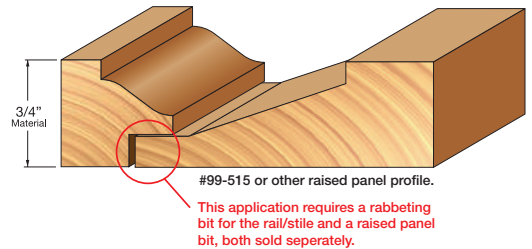
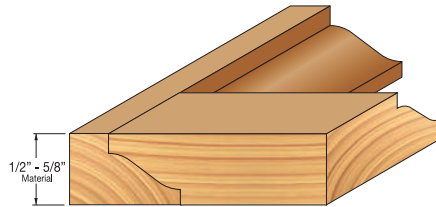
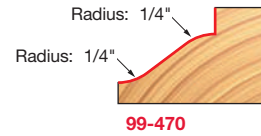
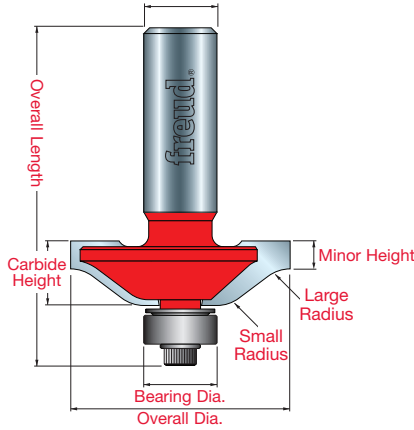
### APPLICATION

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

### MATERIALS



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



ROUTER BITS

# Wide Crown Molding System

# ARCHITECTURAL MILLWORK BITS

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

## USE IN



Table Router



CNC

## APPLICATION

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

## MATERIALS

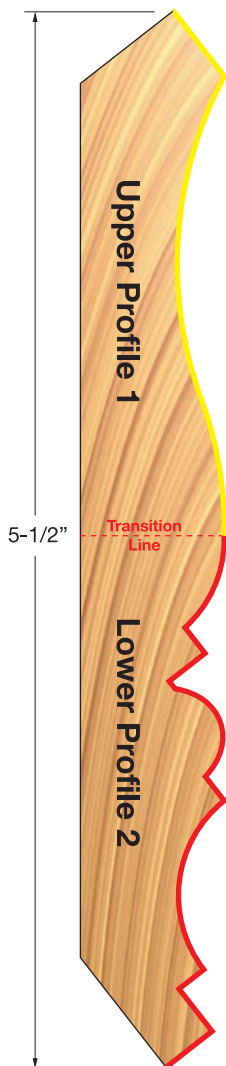


Hardwood

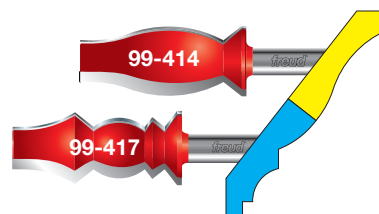


Softwood

ROUTER BITS

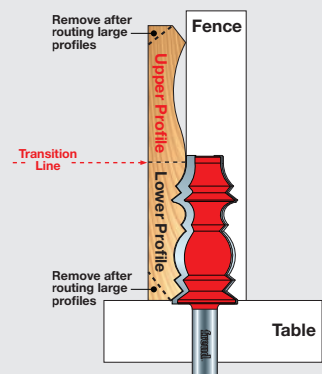
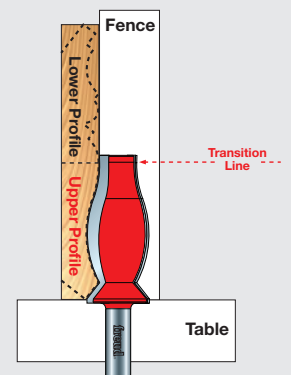


**Freud's Wide Crown Molding 2 Piece Bit Set** allows you to create the most popular crown molding profiles!



98-507 2 piece set

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



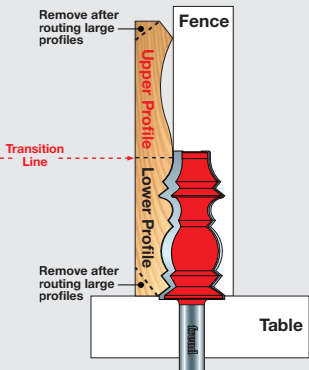
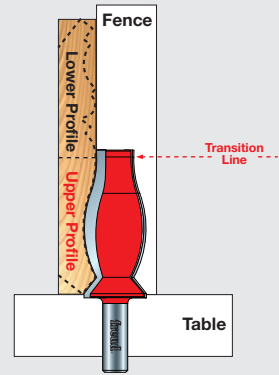
### USE IN



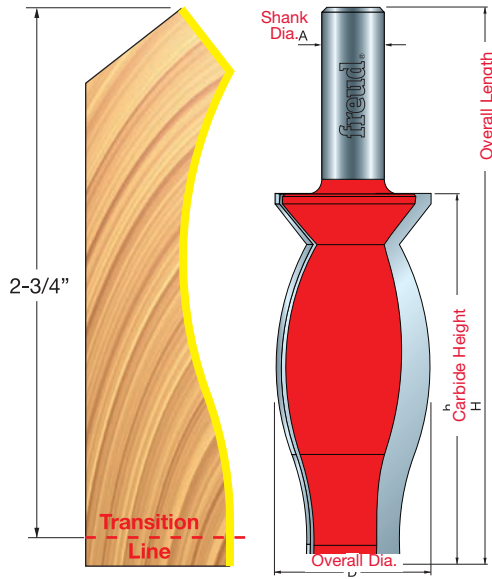
### APPLICATION

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

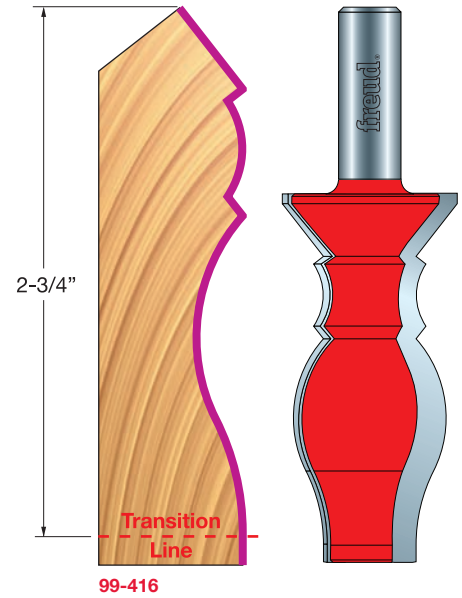
### MATERIALS



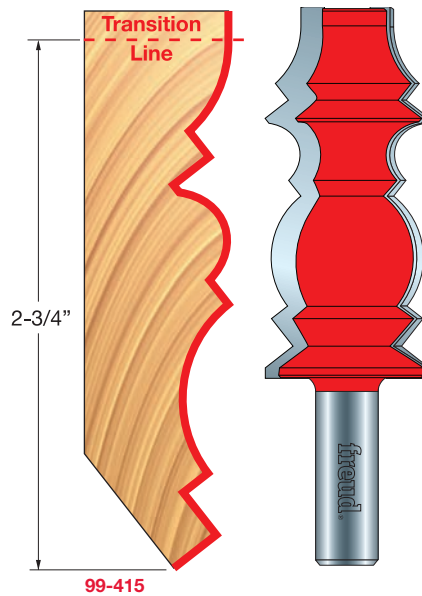
### UPPER PROFILE 1



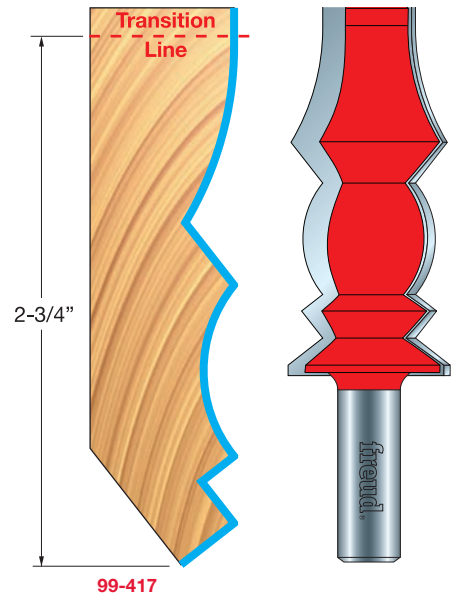
### UPPER PROFILE 3



### LOWER PROFILE 2



### LOWER PROFILE 4

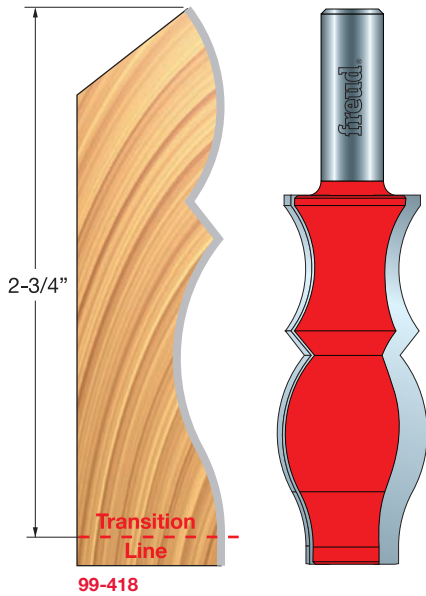


# Wide Crown Molding System

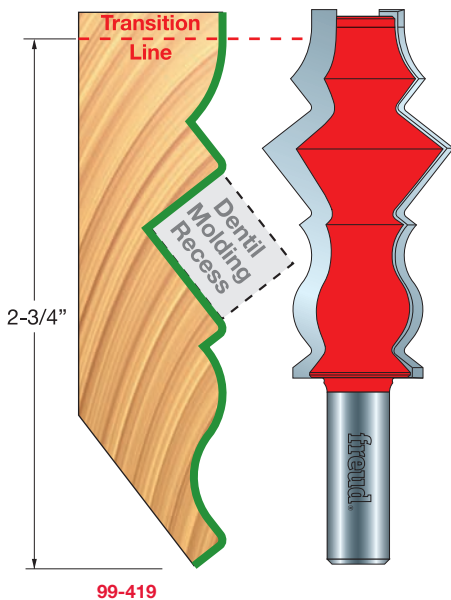
# ARCHITECTURAL MILLWORK BITS

CONTINUED

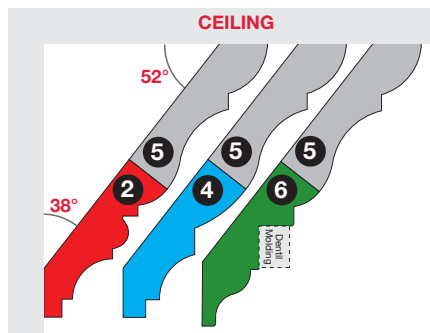
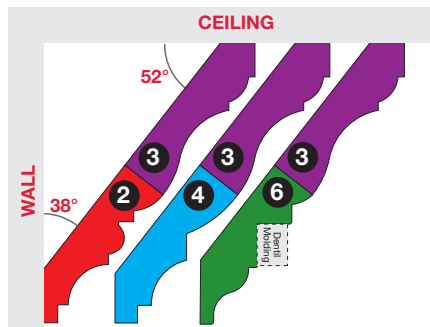
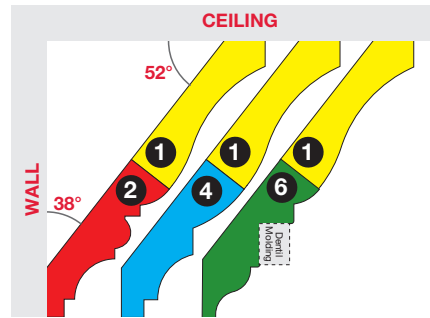
## UPPER PROFILE 5



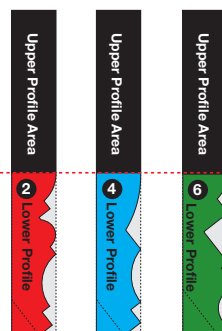
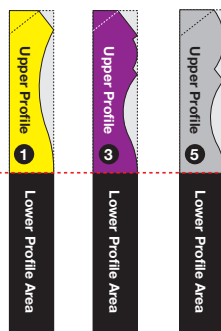
## LOWER PROFILE 6



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



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



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

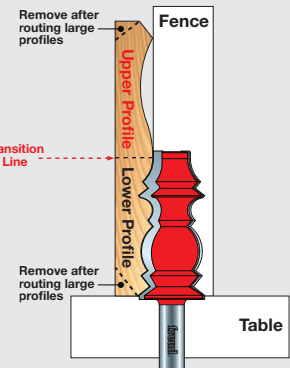
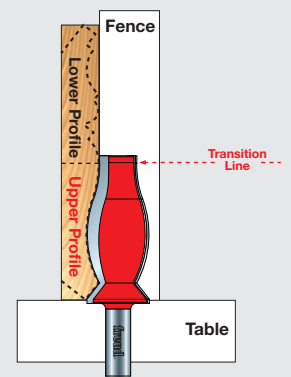
## USE IN



## APPLICATION

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

## MATERIALS



\* Solid Carbide

Red Item Numbers Indicate 1/2" Shank

All Profile Drawings 1:1 Scale

# ARCHITECTURAL MILLWORK BITS



## Wide Crown Molding System

CONTINUED

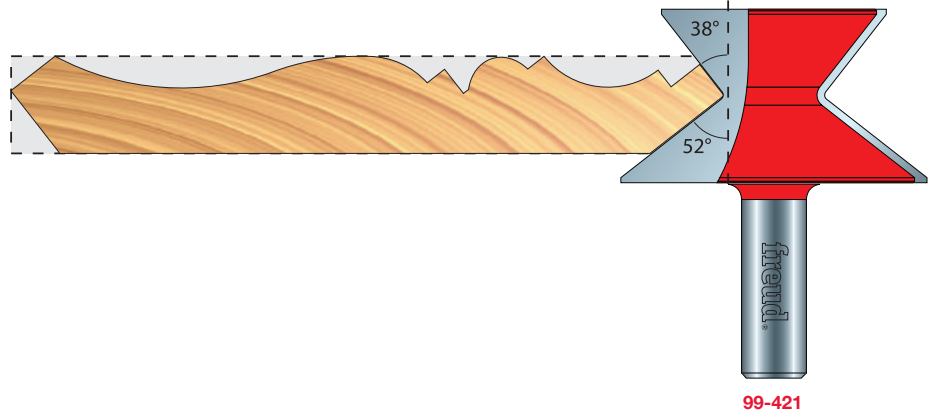
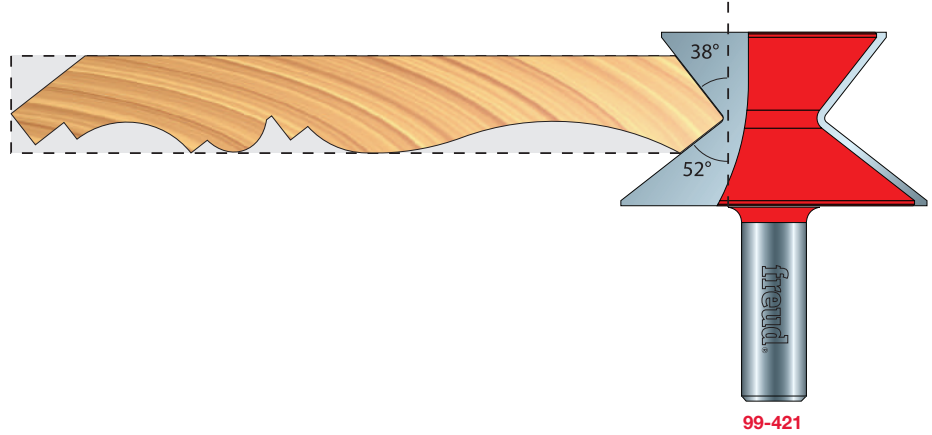
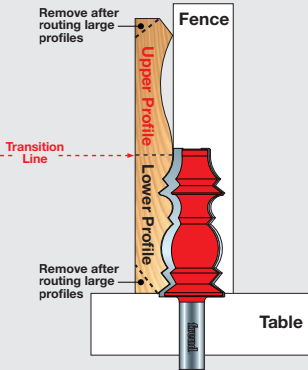
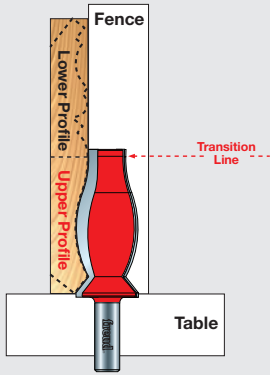
### USE IN



### APPLICATION

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

### MATERIALS



# Crown Molding Bit

# ARCHITECTURAL MILLWORK BITS

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

## USE IN



Table Router



CNC

## APPLICATION

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

## MATERIALS

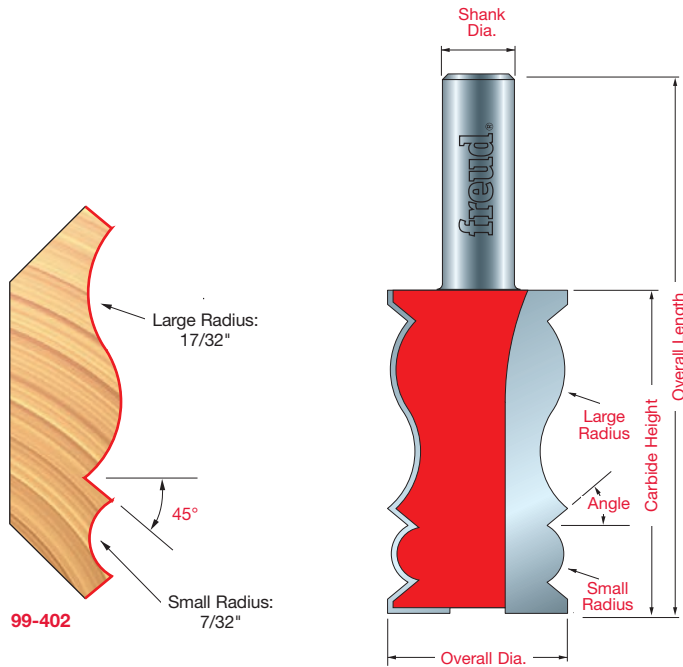


Hardwood

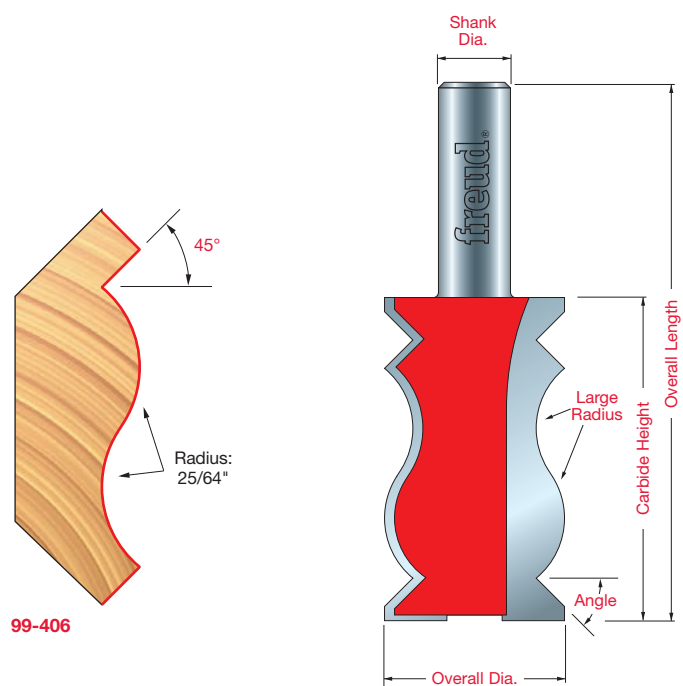


Softwood

ROUTER BITS



99-402



99-406



## Crown Molding Bit

CONTINUED

### USE IN



Table Router    CNC

### APPLICATION

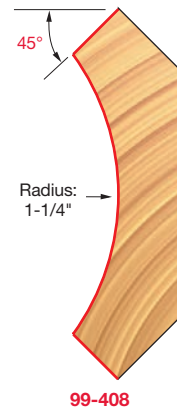
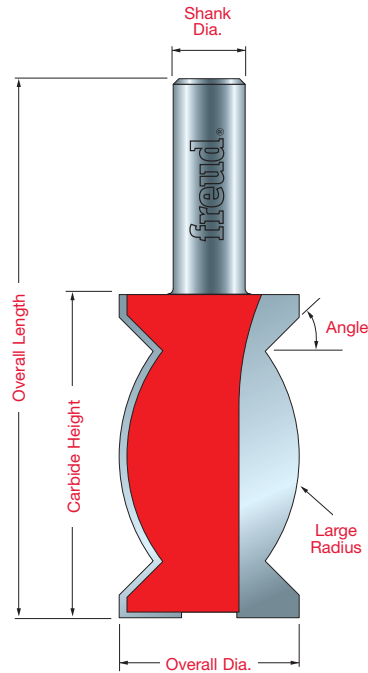
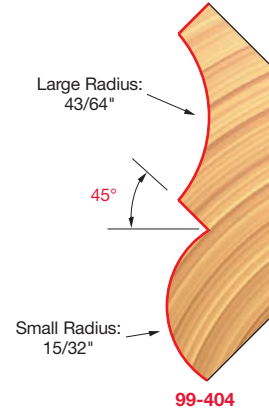
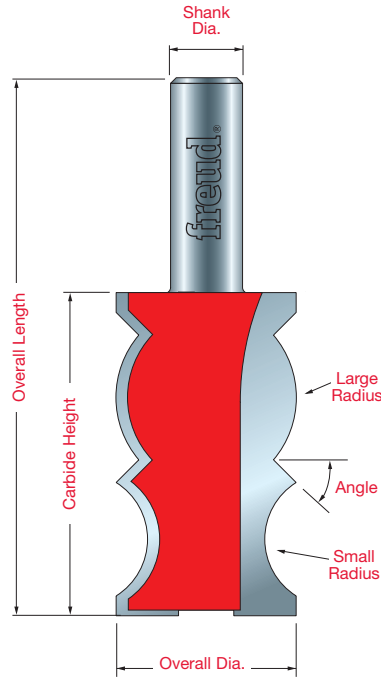
Elaborate crown moldings. Customize your decorative crown moldings to add elegance to any room. Simply adjust the height of your cut to change the entire profile.

### MATERIALS



Hardwood    Softwood

ROUTER BITS

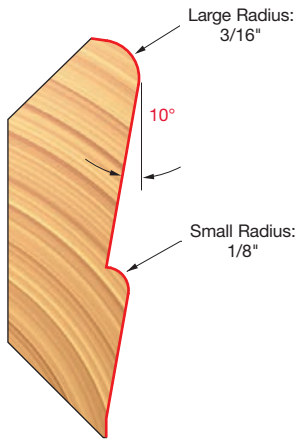




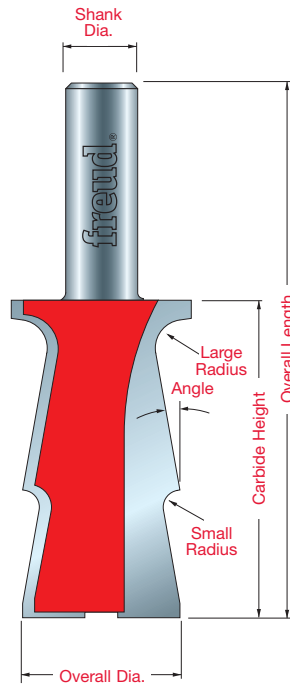
# Crown Molding Bit

# ARCHITECTURAL MILLWORK BITS

CONTINUED



99-410



## USE IN



Table Router



CNC

## APPLICATION

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

## MATERIALS



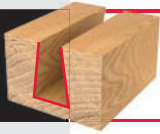
Hardwood



Softwood

ROUTER BITS

# JOINERY BITS



## Dovetail Bits

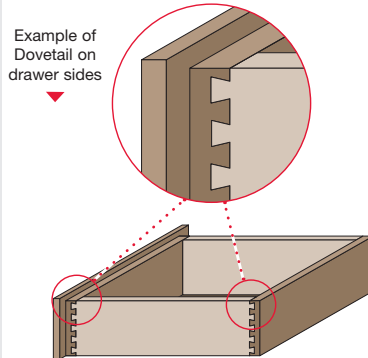
### USE IN



### APPLICATION

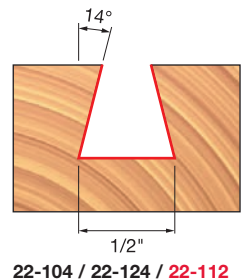
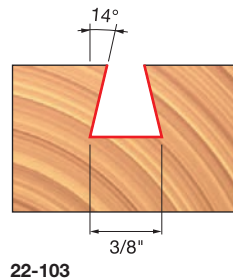
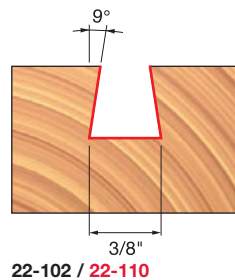
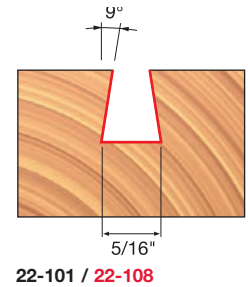
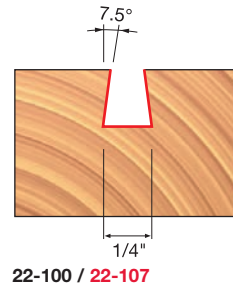
Strong, attractive joints for drawers and boxes. Compatible with popular dovetail jigs, these bits produce smooth, intricate dovetail joints.

### MATERIALS



### Top Bearing Dovetail

ITEM NUMBER	OVERALL DIA.	CARBIDE HEIGHT	ANGLE	SHANK DIA.	OVERALL LENGTH
22-505	5/8"	7/8"	7°	1/4"	2-5/8"
22-507	3/4"	7/8"	14°	1/4"	2-5/8"
22-508	9/16"	3/8"	14°	1/4"	2-3/16"

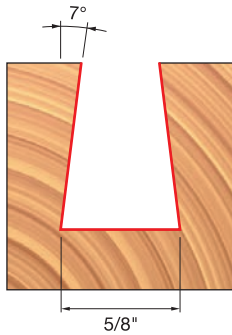


# Dovetail Bits

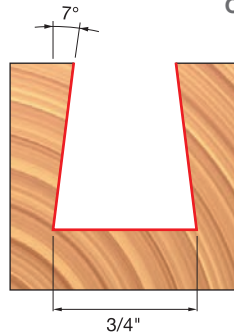


# JOINERY BITS

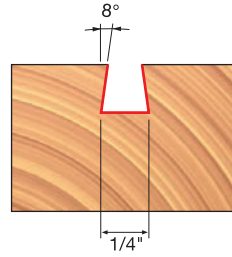
CONTINUED



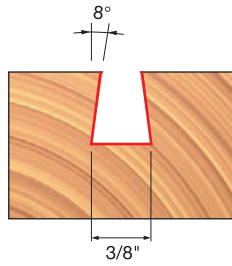
22-105 / 22-113



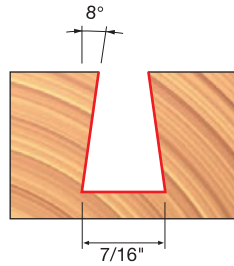
22-106 / 22-114



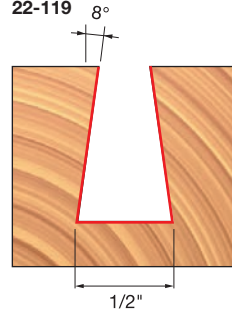
22-119



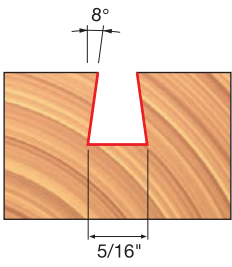
22-120



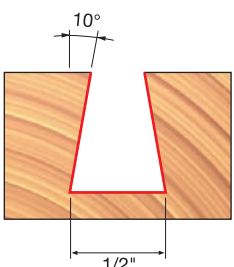
22-121



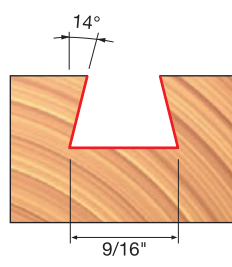
22-122



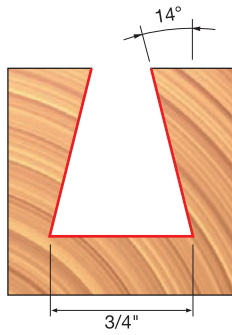
22-123



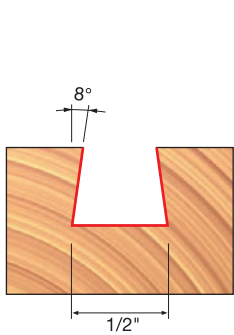
22-125



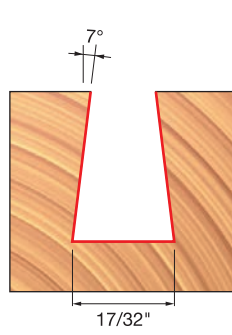
22-126



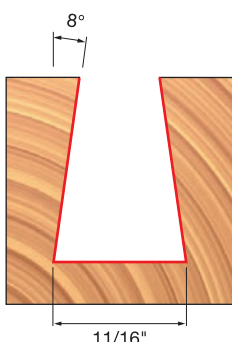
22-128



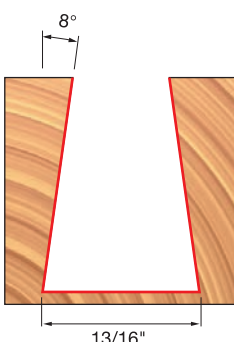
22-129



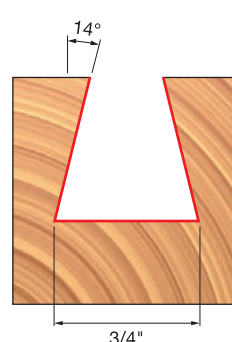
22-115



22-130



22-132



22-134

## USE IN



Table Router

Hand Router

CNC

## APPLICATION

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

## MATERIALS



\* Solid Carbide

Red Item Numbers Indicate 1/2" Shank

All Profile Drawings 1:1 Scale

# JOINERY BITS



## Dovetail Bits

CONTINUED

### USE IN



Table Router



Hand Router

CNC

### APPLICATION

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

### MATERIALS



Hardwood

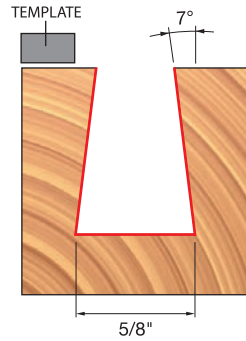
Softwood

MDF

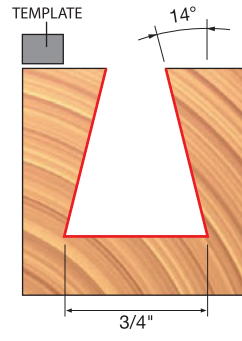
Plywood

ROUTER BITS

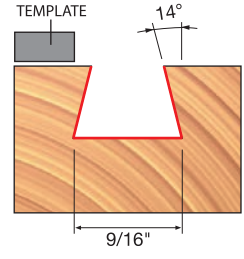
### Top Bearing Dovetail



22-505



22-507



22-508

# JOINERY BITS



## Butterfly Spline Bit

### USE IN



Table Router



Hand Router

CNC

### APPLICATION

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

### MATERIALS



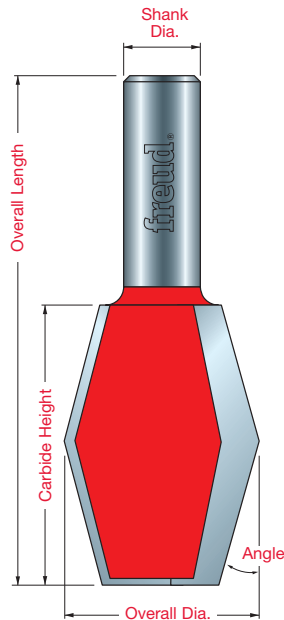
Hardwood

Softwood

MDF

Plywood

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



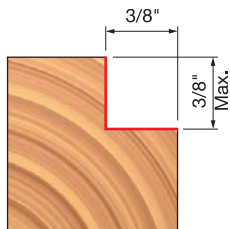
24-106

# Rabbeting Bits

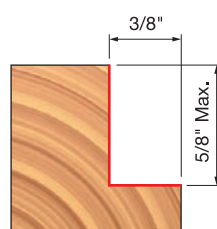


# JOINERY BITS

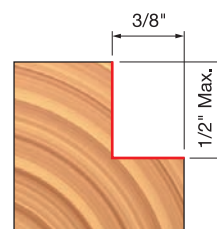
ITEM NUMBER	OVERALL DIA.	BEARING DIA.	CUT DEPTH	CARBIDE HEIGHT	SHANK DIA.	OVERALL LENGTH
32-096	1-1/4"	1/2"	3/8"	3/8"	1/4"	2"
32-098	1-1/4"	1/2"	3/8"	5/8"	1/4"	2-1/4"
32-100	1-1/4"	1/2"	3/8"	1/2"	1/4"	2"
32-101	1-3/8"	3/8"	1/2"	1/2"	1/4"	2-1/4"
32-102	1-1/4"	1/2"	3/8"	1/2"	1/2"	2-1/4"
32-106	1-3/8"	3/8"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



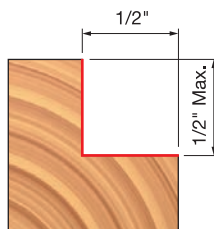
32-096 / 32-302



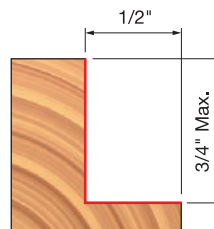
32-098 / 32-306



32-100 / 32-102



32-101 / 32-106



32-110

## USE IN

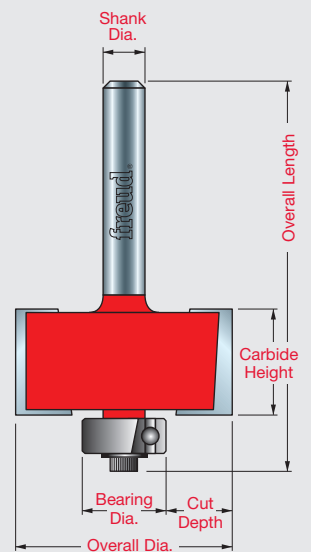


Table Router Hand Router

## APPLICATION

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

## MATERIALS



ROUTER BITS

\* Solid Carbide

Red Item Numbers Indicate 1/2" Shank

All Profile Drawings 1:1 Scale

# JOINERY BITS



## Rabbeting Bits with Bearing Set

### USE IN

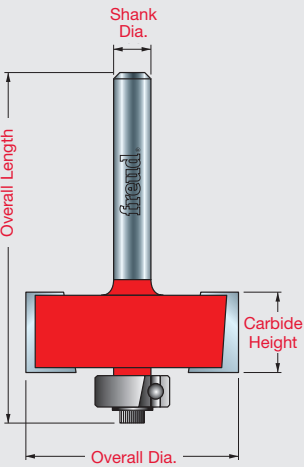


Table Router Hand Router

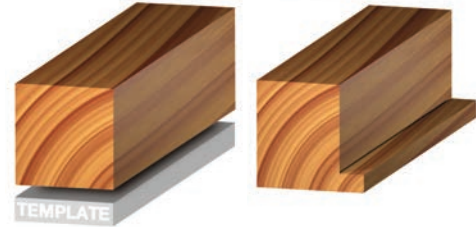
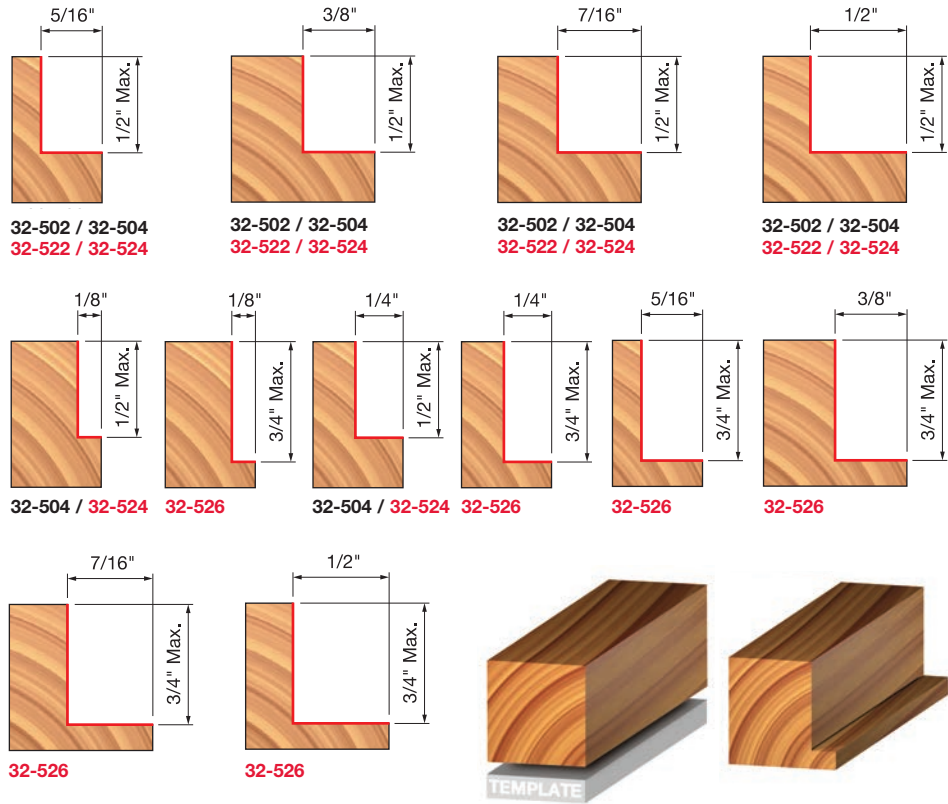
### APPLICATION

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

### MATERIALS



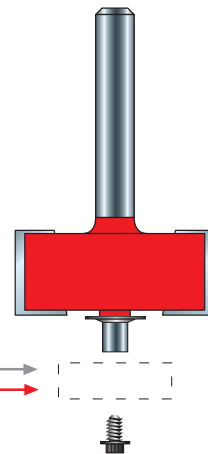
ITEM NUMBER	OVERALL DIA.	RABBETING DEPTHS	CARBIDE HEIGHT	SHANK DIA.	OVERALL LENGTH
32-502	1-3/8"	5/16", 3/8", 7/16", 1/2"	1/2"	1/4"	2-1/4"
32-504	1-3/8"	flush, 1/8", 1/4", 5/16", 3/8", 7/16", 1/2"	1/2"	1/4"	2-1/4"
32-522	1-3/8"	5/16", 3/8", 7/16", 1/2"	1/2"	1/2"	2-1/4"
32-524	1-3/8"	flush, 1/8", 1/4",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



### Both Sets Include the Wrench and Step Washers

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

SET OF 4  
or  
SET OF 7



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

# Stacked Slotting Set



# JOINERY BITS

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

### Replacement Bearing

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

### Replacement Cutters

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

### USE IN



Table Router Hand Router

### APPLICATION

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

### MATERIALS



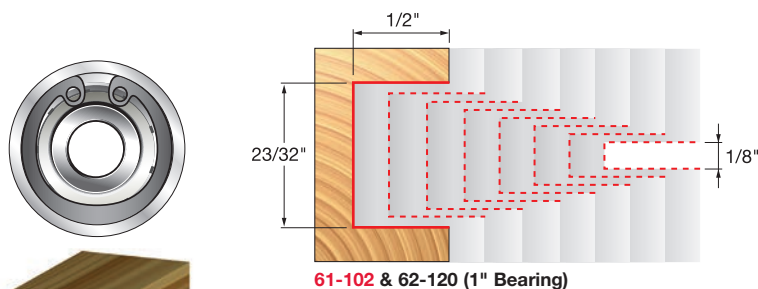
Hardwood

Softwood

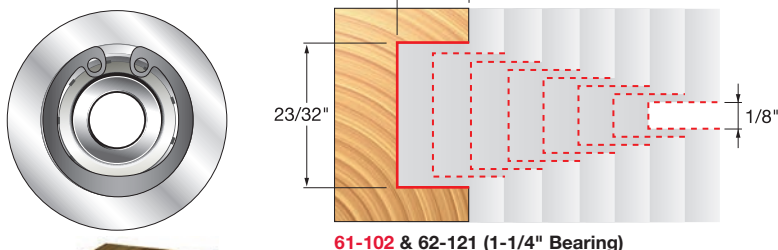
MDF

Plywood

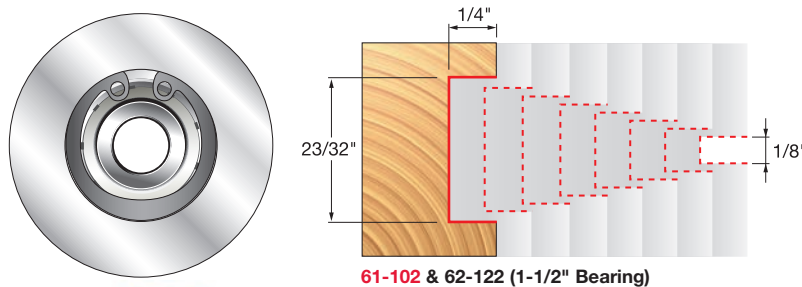
ROUTER BITS



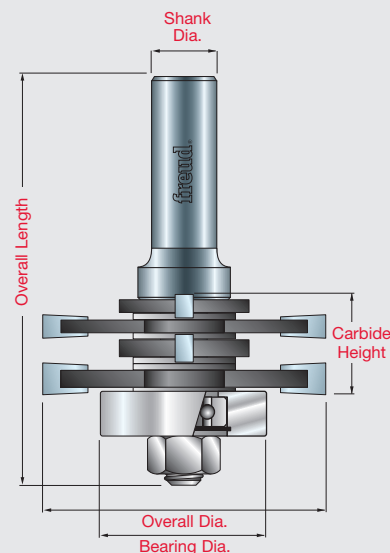
61-102 & 62-120 (1" Bearing)



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



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



\* Solid Carbide

Red Item Numbers Indicate 1/2" Shank

All Profile Drawings 1:1 Scale

# JOINERY BITS

## Biscuit Joining Set

### USE IN



Table Router Hand Router

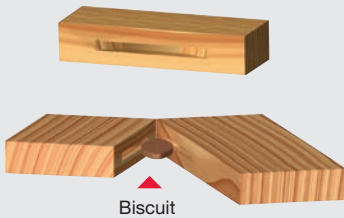
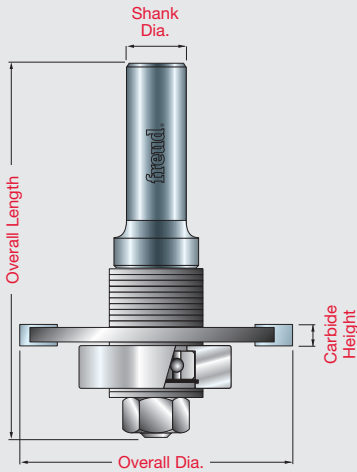
### APPLICATION

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

### MATERIALS



ROUTER BITS



Drawing Is Not to Scale

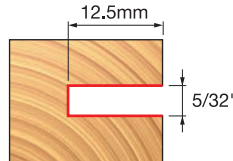
ITEM NUMBER	OVERALL DIA.	CARBIDE HEIGHT	SHANK DIA.	OVERALL LENGTH
99-041	1-27/32"	5/32"	1/2"	3-1/4"

### Replacement Bearing

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

### Bearings

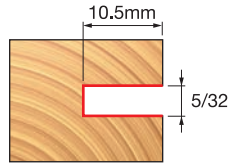
BEARING NUMBER	SIZE.	BEARING DIA.	CUT DEPTH
62-128	00	30mm	8.5mm
62-124	10	26mm	10.5mm
62-108	20	22mm	12.5mm



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



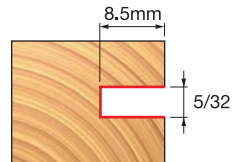
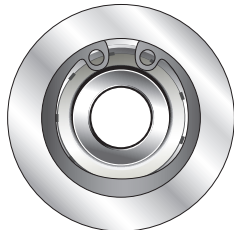
**Biscuit Size-20**  
59mm x 22mm  
2-3/8" x 7/8"



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



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



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



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

Examples of various joint configurations



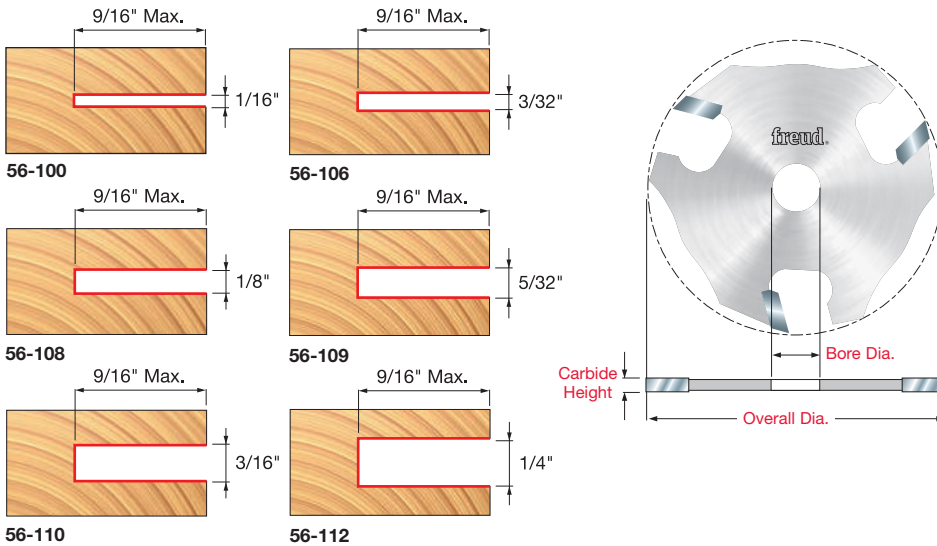


## Three Wing Slotting Cutters



## JOINERY BITS

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



### USE IN



Table Router Hand Router

### APPLICATION

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

### MATERIALS



Hardwood

Softwood

MDF

Plywood

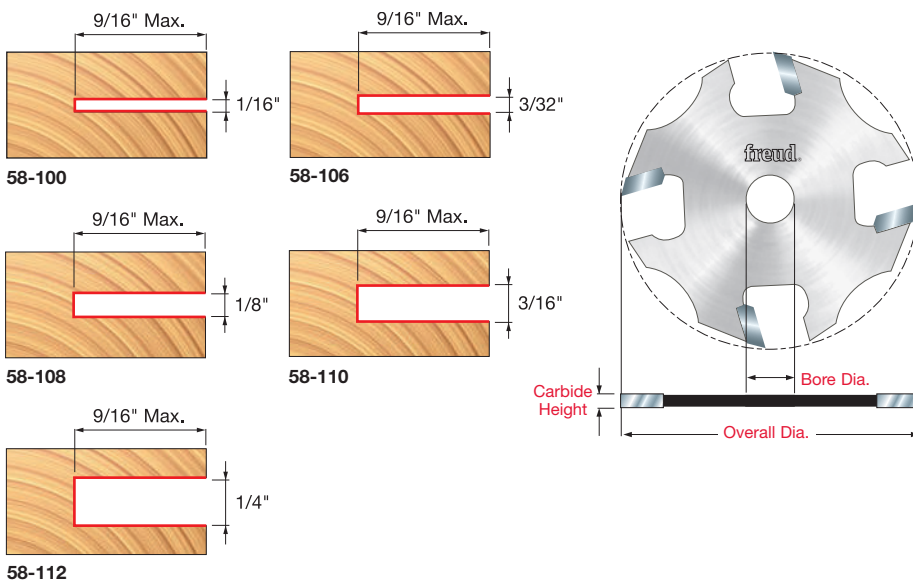
ROUTER BITS

## Four Wing Slotting Cutters



## JOINERY BITS

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



### USE IN



Table Router Hand Router

### APPLICATION

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

### MATERIALS



Hardwood

Softwood

MDF

Plywood

\* Solid Carbide

Red Item Numbers Indicate 1/2" Shank

All Profile Drawings 1:1 Scale

# JOINERY BITS

## Slotting Cutter Arbors

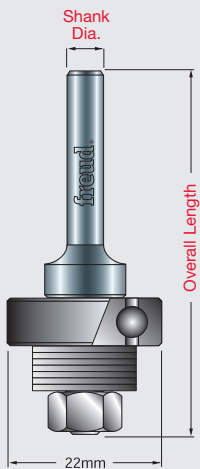
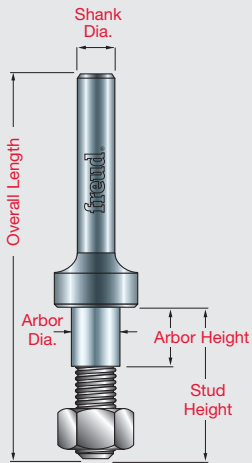
### USE IN



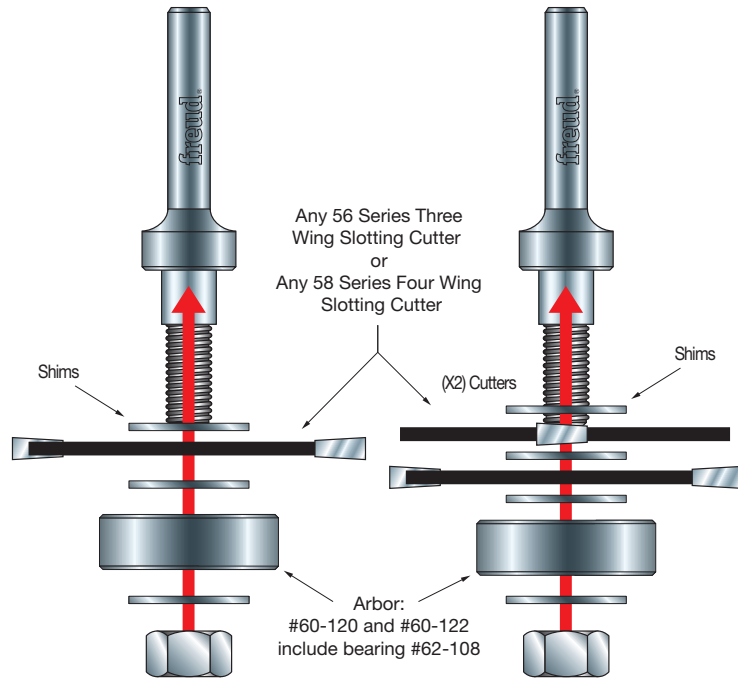
### APPLICATION

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

ROUTER BITS



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

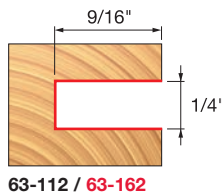
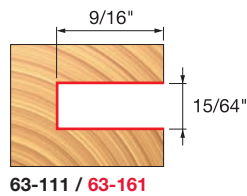
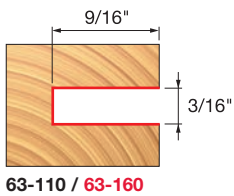
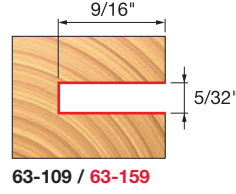
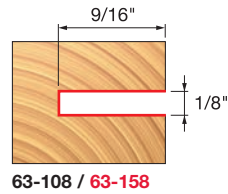
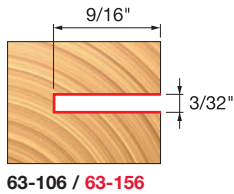
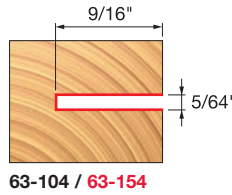
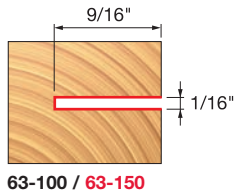


# Slotting Cutter Sets



# JOINERY BITS

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



## USE IN



Table Router



Hand Router



CNC

## APPLICATION

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

## MATERIALS



Hardwood



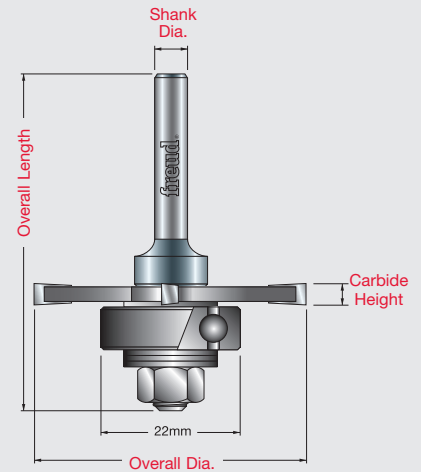
Softwood



MDF



Plywood



ROUTER BITS

\* Solid Carbide

Red Item Numbers Indicate 1/2" Shank

All Profile Drawings 1:1 Scale

# JOINERY BITS

## Canoe Joint Bits

### USE IN



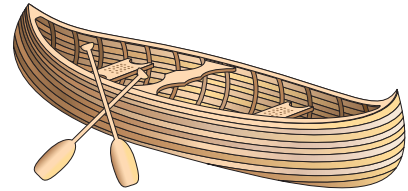
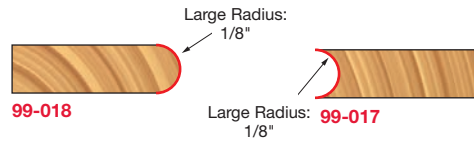
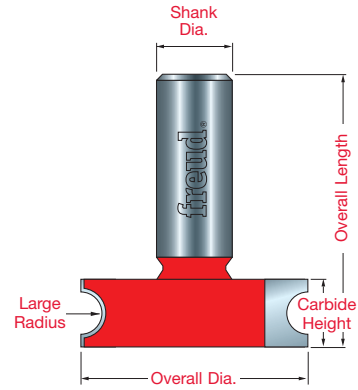
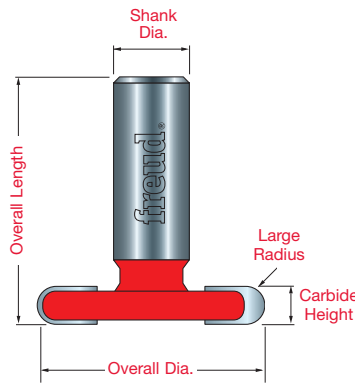
### APPLICATION

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

### MATERIALS



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



# JOINERY BITS

## Reversible Glue Joint Bit

### USE IN



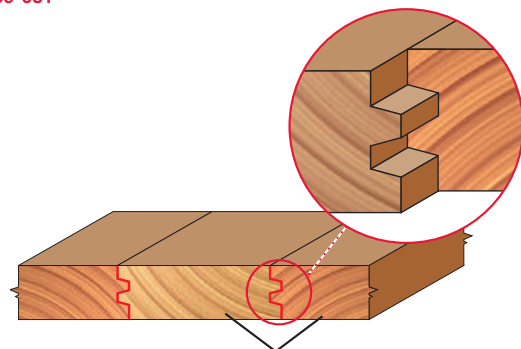
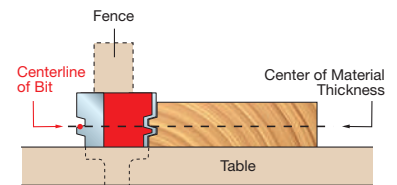
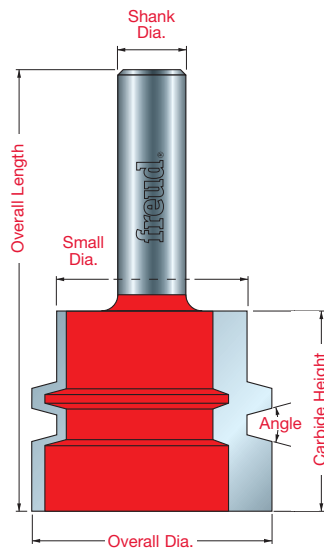
### APPLICATION

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

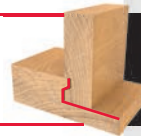
### MATERIALS



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

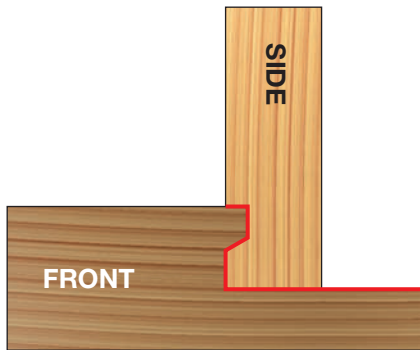


# Drawer Lock Bits

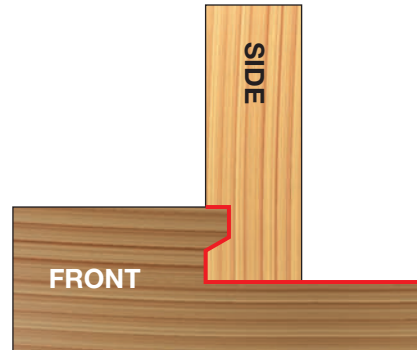


# JOINERY BITS

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

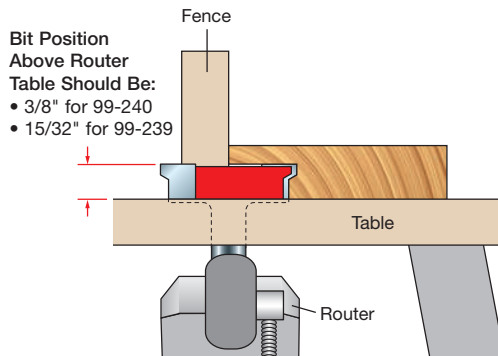


99-239

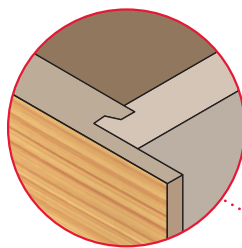
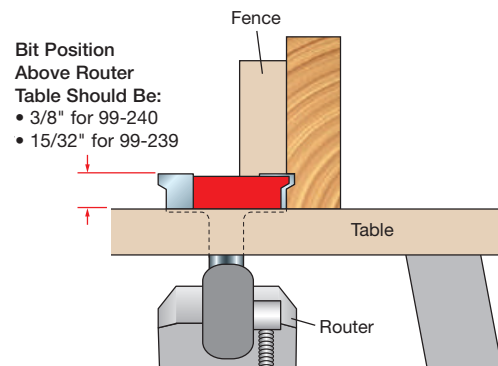


99-240

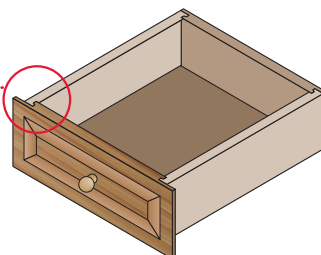
1



2



Example of Drawer Lock



## USE IN

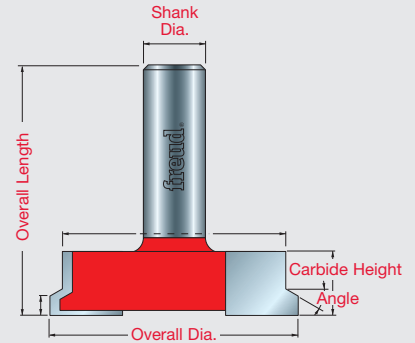


Table Router

## APPLICATION

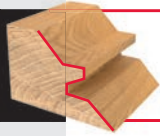
Forming a strong joint between the sides and front of a drawer. Drawer fronts are formed horizontally, flat on the table surface. Drawer sides are formed vertically against the fence of the table.

## MATERIALS



ROUTER BITS

# JOINERY BITS



## Lock Miter Bits

### USE IN



### APPLICATION

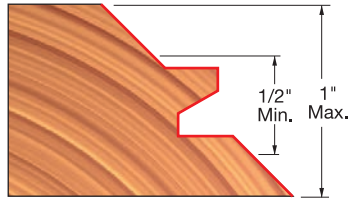
Creating interlocking corner joints. Run one board vertically and the piece to be joined horizontally. 99-035 cuts thinner panels for projects such as humidors and jewelry boxes.

### MATERIALS



ROUTER BITS

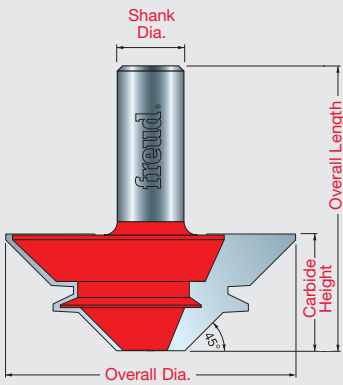
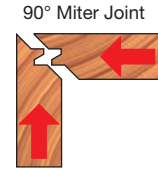
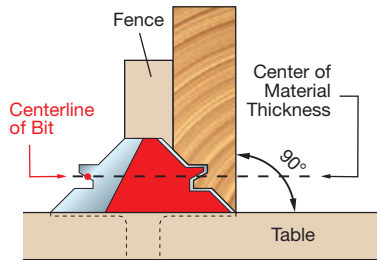
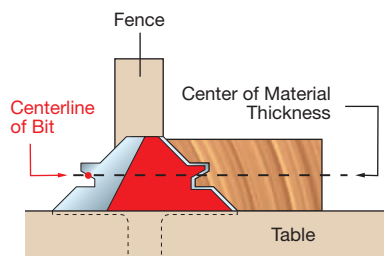
ITEM NUMBER	OVERALL DIA.	CARBIDE HEIGHT	ANGLE	SHANK DIA.	OVERALL LENGTH
99-034	2-3/4"	1-5/32"	45°	1/2"	2-5/8"
99-035	2-11/64"	7/8"	45°	1/2"	2-3/8"
99-043	1-15/32"	7/8"	22-1/2°	1/2"	2-3/8"



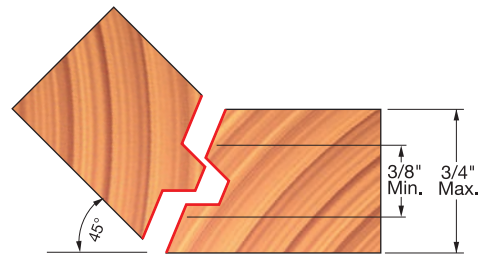
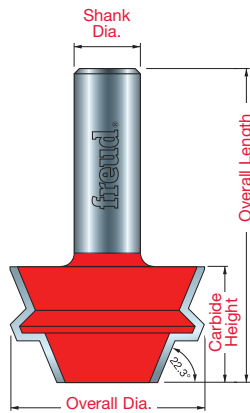
99-034



99-035



### 22-1/2° Set

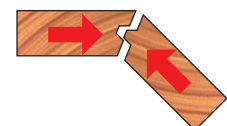


99-043

Simple Joint



45° Miter Joint



# Wedge Tongue & Groove Bits



# JOINERY BITS

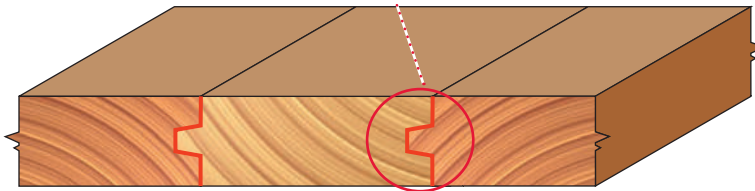
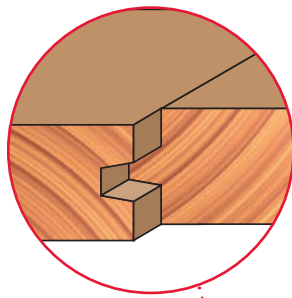
ITEM NUMBER	OVERALL DIA.	CUT DEPTH	CARBIDE HEIGHT	ANGLE	SHANK DIA.	OVERALL LENGTH
99-032	1-21/32"	5/16"	1-3/32"	10°	1/2"	2-5/8"
99-033	1-21/32"	5/16"	1-3/32"	10°	1/2"	2-5/8"



99-033



99-032



Opposing Grain Direction

## USE IN



Table Router

## APPLICATION

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

## MATERIALS



Hardwood



Softwood

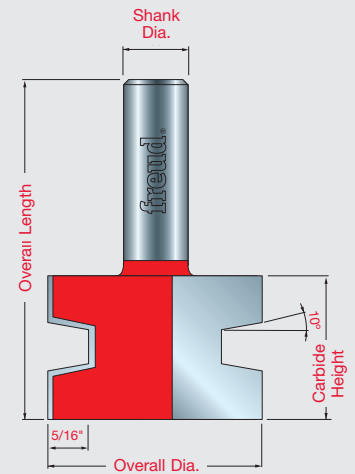
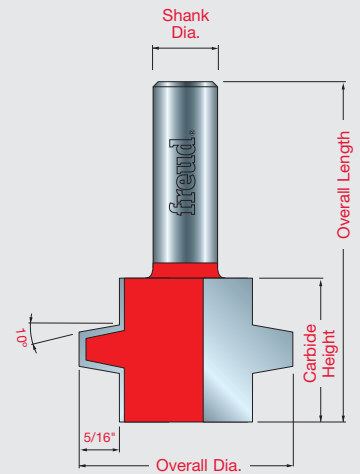


MDF



Plywood

ROUTER BITS



# JOINERY BITS



## Adjustable Tongue & Groove Bit Set

### USE IN



Table Router

### APPLICATION

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

### MATERIALS

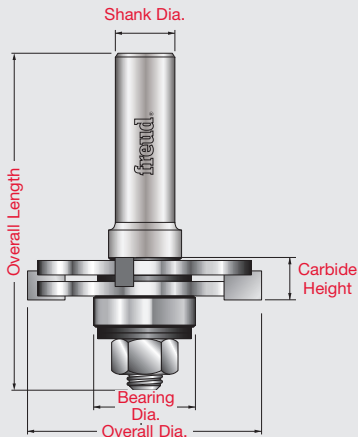
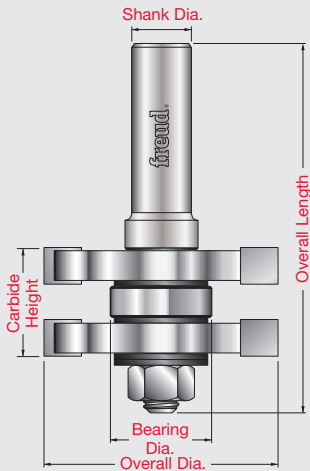


Hardwood

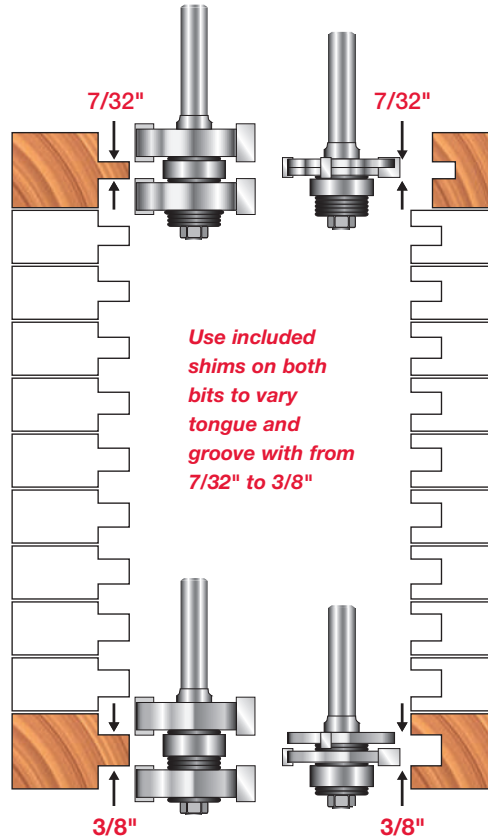
Softwood

MDF

Plywood



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



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



Tongue & Groove Joints

Breadboard Ends

Shaker Style Doors

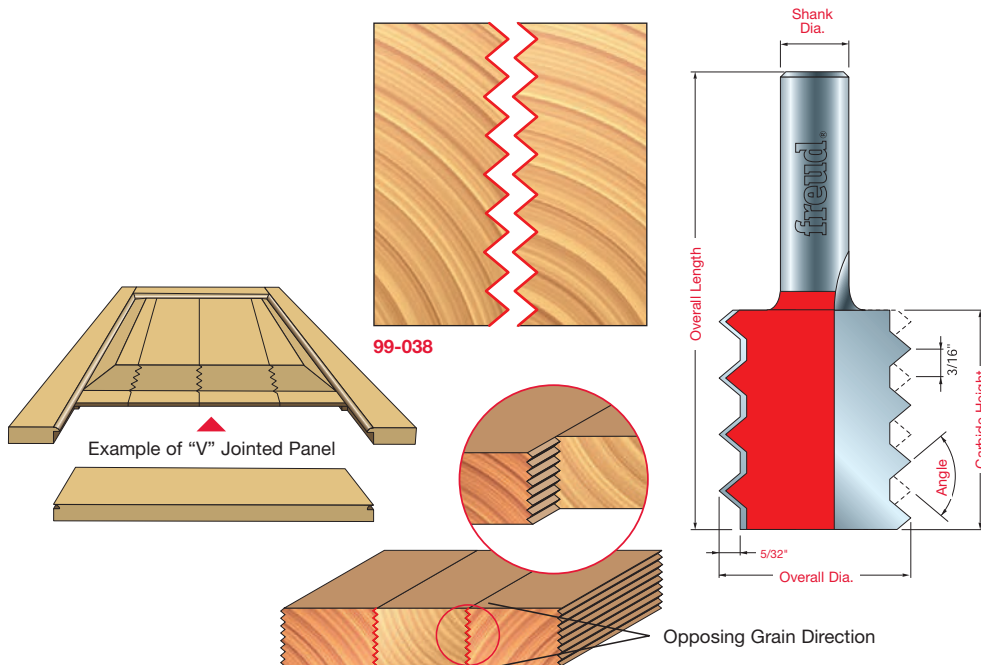


## Raised Panel "V" Joint Bit



## JOINERY BITS

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



### USE IN



Table Router

### APPLICATION

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

### MATERIALS



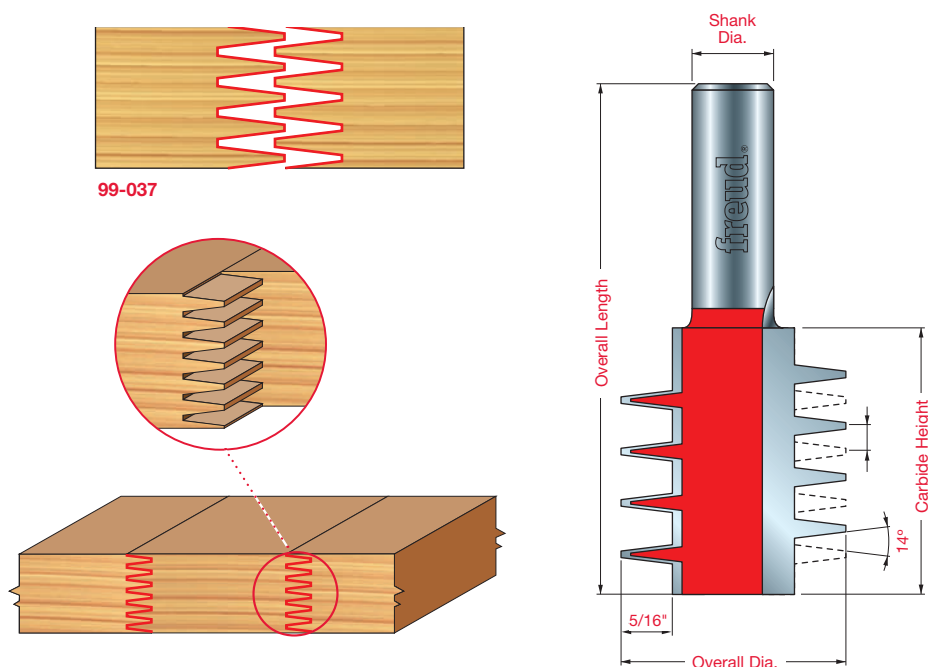
ROUTER BITS

## Finger Joint Bit



## JOINERY BITS

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



### USE IN



Table Router CNC

### APPLICATION

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

### MATERIALS



# JOINERY BITS

## Variable Height Finger Joint Bit

### USE IN

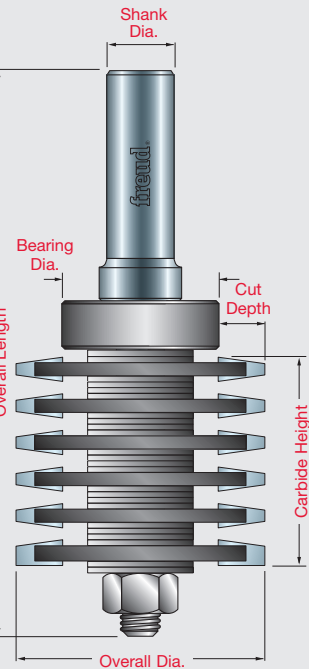


Table Router Hand Router

### APPLICATION

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

### MATERIALS



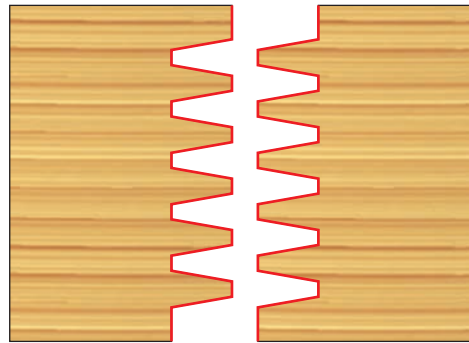
ITEM NUMBER	OVERALL DIA.	CUT DEPTH	BEARING DIA.	CARBIDE HEIGHT	SHANK DIA.	OVERALL LENGTH
99-039	2"	5/16"	1-3/8"(35mm)	1-9/16"	1/2"	4-1/4"

### Replacement Cutters

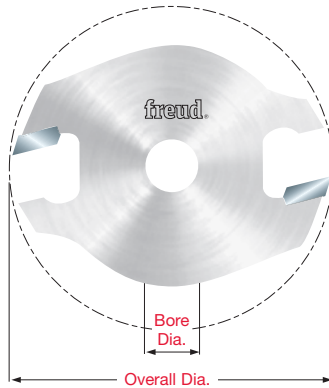
ITEM NUMBER	OVERALL DIA.	BORE DIA.	CARBIDE HEIGHT
52-104	2"	5/16"	7/32"
52-108	2"	5/16"	21/64"

### Replacement Bearings

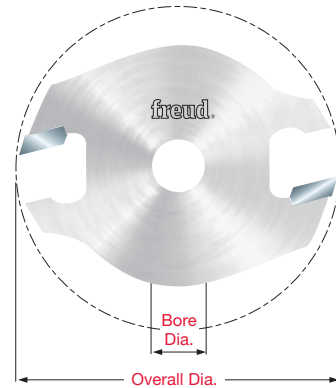
ITEM NUMBER	OUTSIDE DIA.	INSIDE DIA.	HEIGHT
62-109	35mm	15mm	11mm



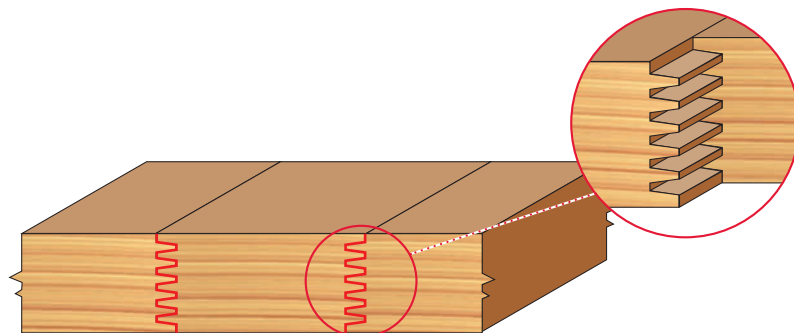
99-039



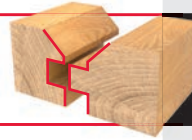
52-108



52-104



# "V" Panel Bit Set



# JOINERY BITS

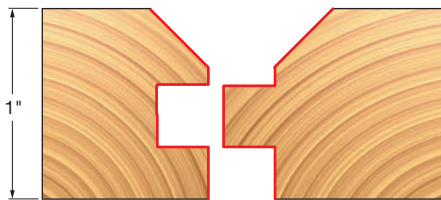
ITEM NUMBER	OVERALL DIA.	SMALL DIA.	CARBIDE HEIGHT	MINOR HEIGHT 1	MINOR HEIGHT 2	ANGLE	SHANK DIA.	OVERALL LENGTH
99-191	2-11/64"	1-37/64"	1-1/8"	5/32" - 5/16"	25/64"	45°	1/2"	3-3/8"



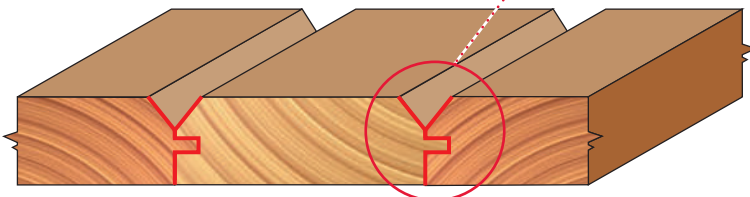
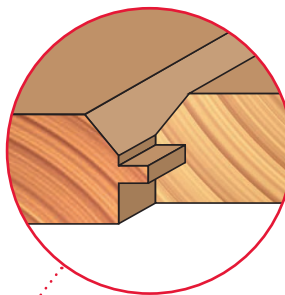
99-191



99-191



99-191



## USE IN



Table Router

## APPLICATION

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

## MATERIALS



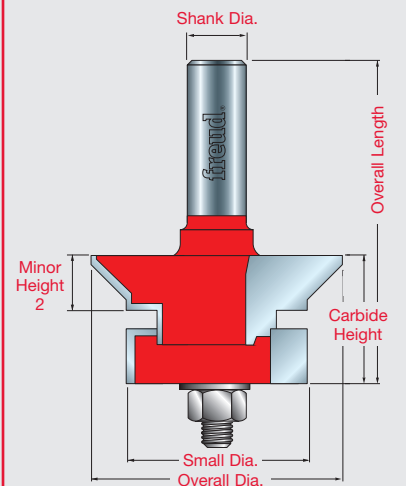
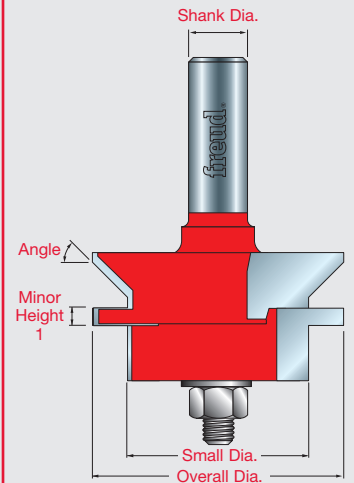
Hardwood

Softwood

MDF

Plywood

ROUTER BITS



\* Solid Carbide

Red Item Numbers Indicate 1/2" Shank

All Profile Drawings 1:1 Scale

# SOLID SURFACE BITS

## Round Over Bowl Bits

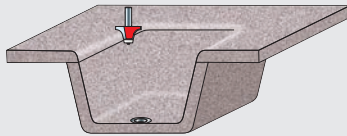
### USE IN



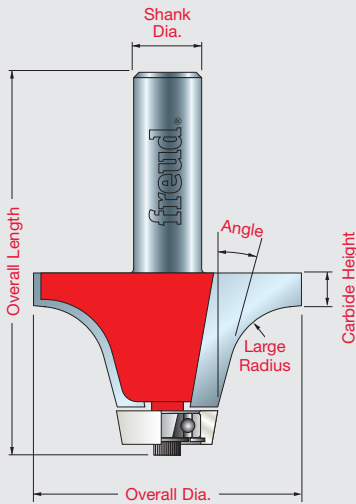
Hand Router

### APPLICATION

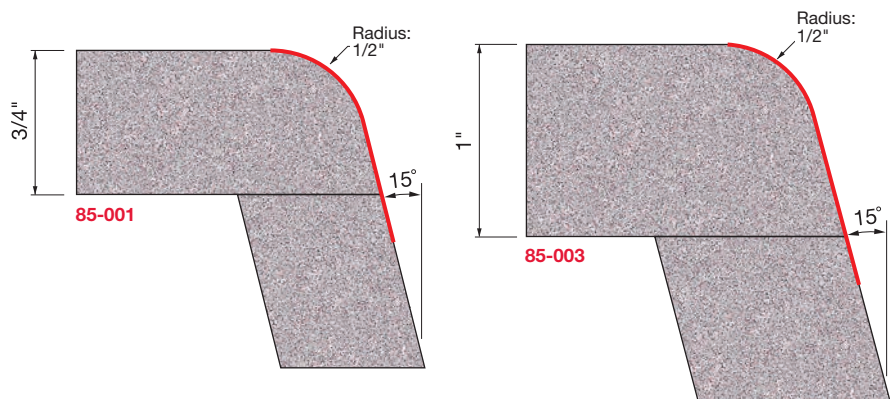
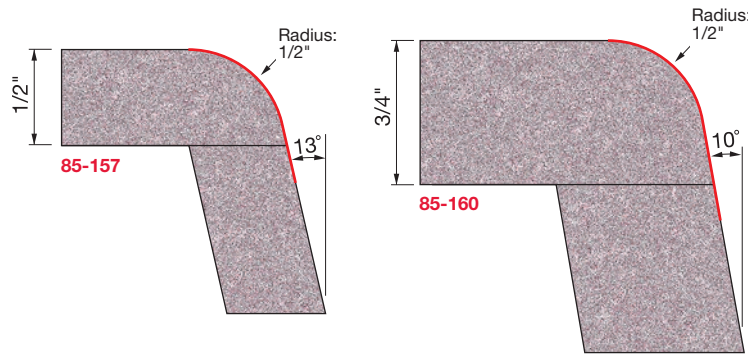
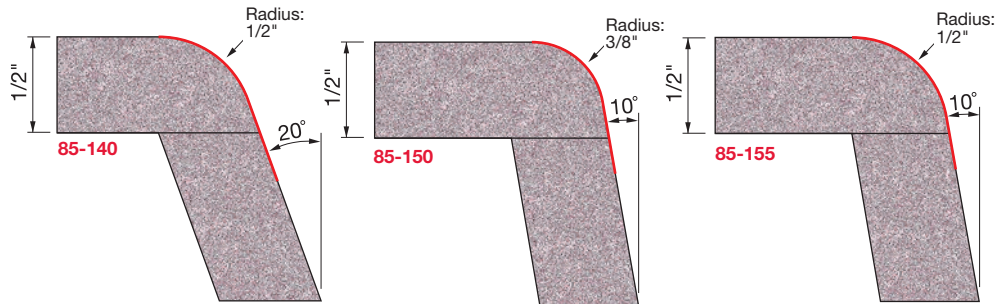
Trimming joint between solid surface countertops and solid surface sink bowls with a smooth, rounded edge. Specially formulated carbide is ideal for fabricating solid surface materials. Features non-marring synthetic bearing to protect finished edges.



ROUTER BITS

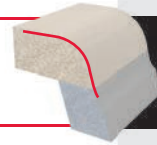


ITEM NUMBER	FOR TOP THICKNESS	OVERALL DIA.	CARBIDE HEIGHT	LARGE RADIUS	ANGLE	SHANK DIA.	OVERALL LENGTH
For Corian® Bowls 802, 809, 810, 871							
85-140	1/2"	2-1/8"	1"	1/2"	20°	1/2"	2-13/16"
For Avonite®, Corian®, Fountainhead®, & Formica® bowls, Transolid® and Hi-Macs® sinks							
85-150	1/2"	2-1/8"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



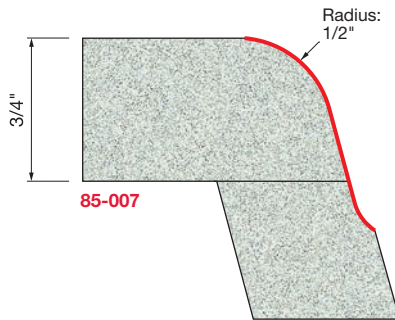
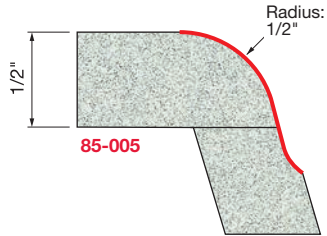
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# Ogee Bowl Bits



# SOLID SURFACE BITS

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



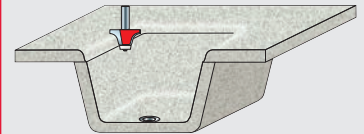
## USE IN



Hand Router

## APPLICATION

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



ROUTER BITS

